

· This manual provides an overview of the products of Zhejiang Xingchen Pneumatic Co., Ltd.  
· If there is any discrepancy between the images and the actual products, please refer to the actual products.  
· For more product information, please contact our customer service.

XINGCHEN

Product Catalog

**XINGCHEN**

Version No. :PSG\_v3.0\_2025Q1



**ZHEJIANG XINGCHEN PNEUMATIC CO., LTD.**

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Branch



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XINGCHEN TOGETHER  
PNEUMATIC FUTURE

# **XINGCHEN**

## **Company Profile**

### **About Xingchen**

Founded in 2000, Zhejiang Xingchen Pneumatic Co., Ltd. is a leader in full-industry-chain pneumatic customization solutions, also is a Specialized-Refined-Differential-Innovative Enterprise in China.

Supplies Pneumatic Actuators, Control Components, Air Preparation Equipments, and Pneumatic Accessories which more than 1,200 varieties. They are widely used in metallurgy, electromechanical equipment, woodworking, packaging, food manufacturing, electronic manufacturing, building industry, and automated industrial fields.

More than 100 Million Investment, Professional Team, Industrial-Technological-International Brand Strategy, the Star of East China Sea is shining across the world.

# Culture

**Our Corporate Spirit: Driven by Innovation, Creating Value.**

**Corporate Culture** | Sincere Creator

### **Our Vision**

Everything for Driving Global Industrial Innovation

### **Our Goal**

Becoming a Leader in the New Ecosystem of the Global Pneumatic Customization Industry Chain

### **Xingchen Values**

Customer-focused, Benchmarking Innovation with Pragmatism and Progress, Moving Forward Together

Complete variety, exquisite quality.  
Superman of the Automation Industry.

4

Series

90+

Categories

1200+

Varieties



Pneumatic actuators



Pneumatic control elements



Air treatment units



Pneumatic accessories



Textile



Photovoltaic



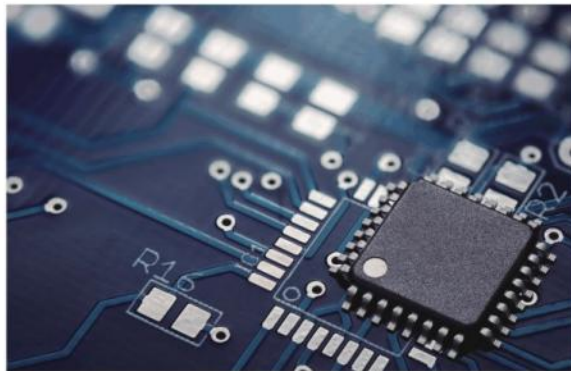
New energy



Packaging



Medical



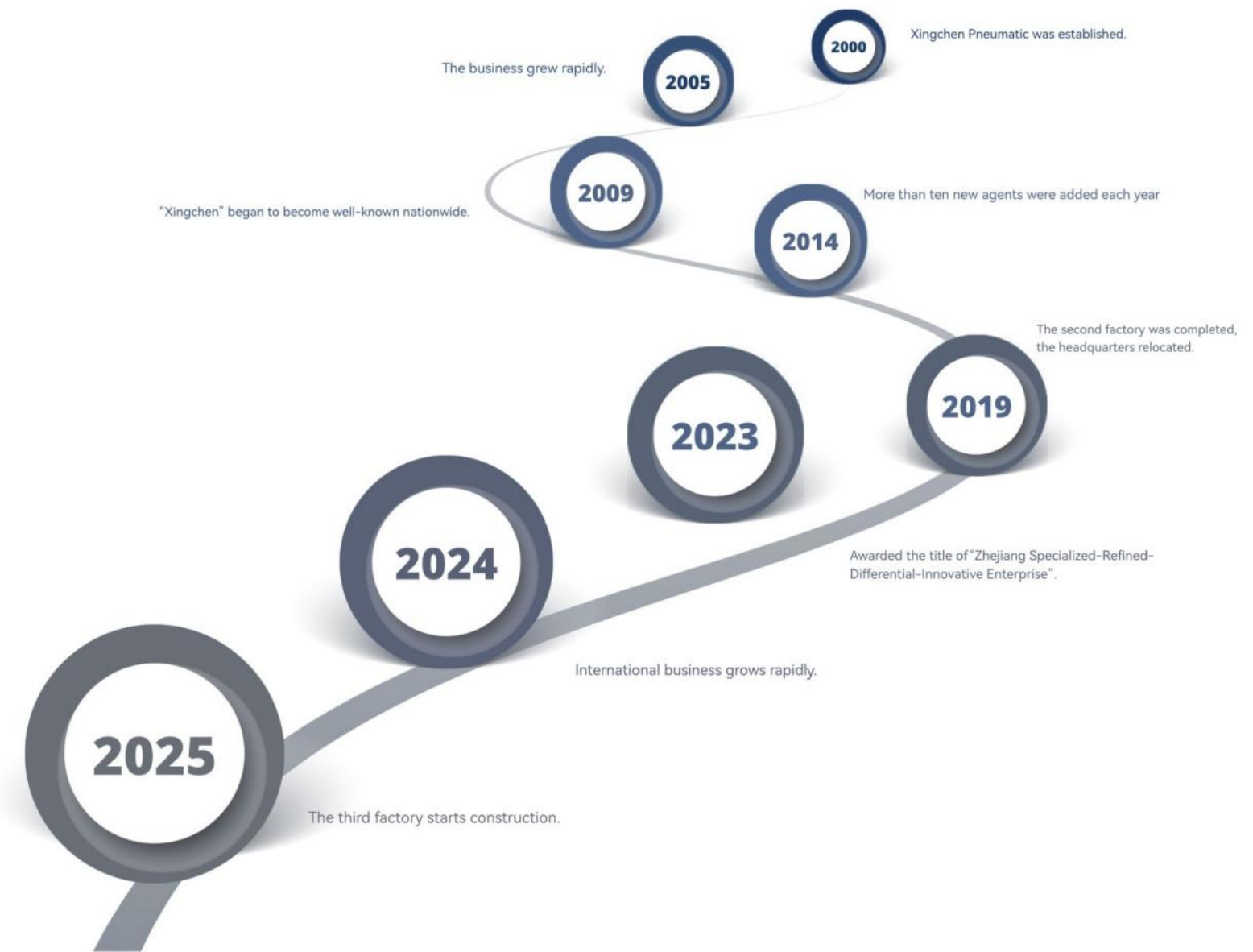
Electronics



# DEVELOPMENT HISTORY

**25+ Years Of Manufacturing Experience**  
**Your Full-Chain Pneumatic Solutions Partner**

- High-tech Enterprise
- Zhejiang Specialized-Refined-Differential-Innovative Enterprise
- President Unit of Zhejiang Pneumatic Industry Association
- Joint Laboratory on Solenoid Valves Reliability Test of Zhejiang University
- The 7th National Hydraulic and Pneumatic Standardization Technical Committee
- National (Industry) Standards Setting Organization
- Excellent Private Enterprise of Zhejiang Province



# INDUSTRY LEADER

**45000m<sup>2</sup>**

Factory

**400+**

Employees

**¥1000000000+**

Investment

**¥3000000000+**

Annual Sales

steair

TSUGAMI  
Rem Sales, LLC

brother

FANUC



**TECHNICIANS TEAM**

**40+**

**SERVICE TEAM**

**30+**

**IMPORTED EQUIPMENT**

**400+**

# FAMOUS IN CHINA

**15** Provinces

**49** Cities

**80** Agencies

## EXTENSIVE NETWORK

Covering all regions across the country with rapid response.

## MUTUAL GROWTH

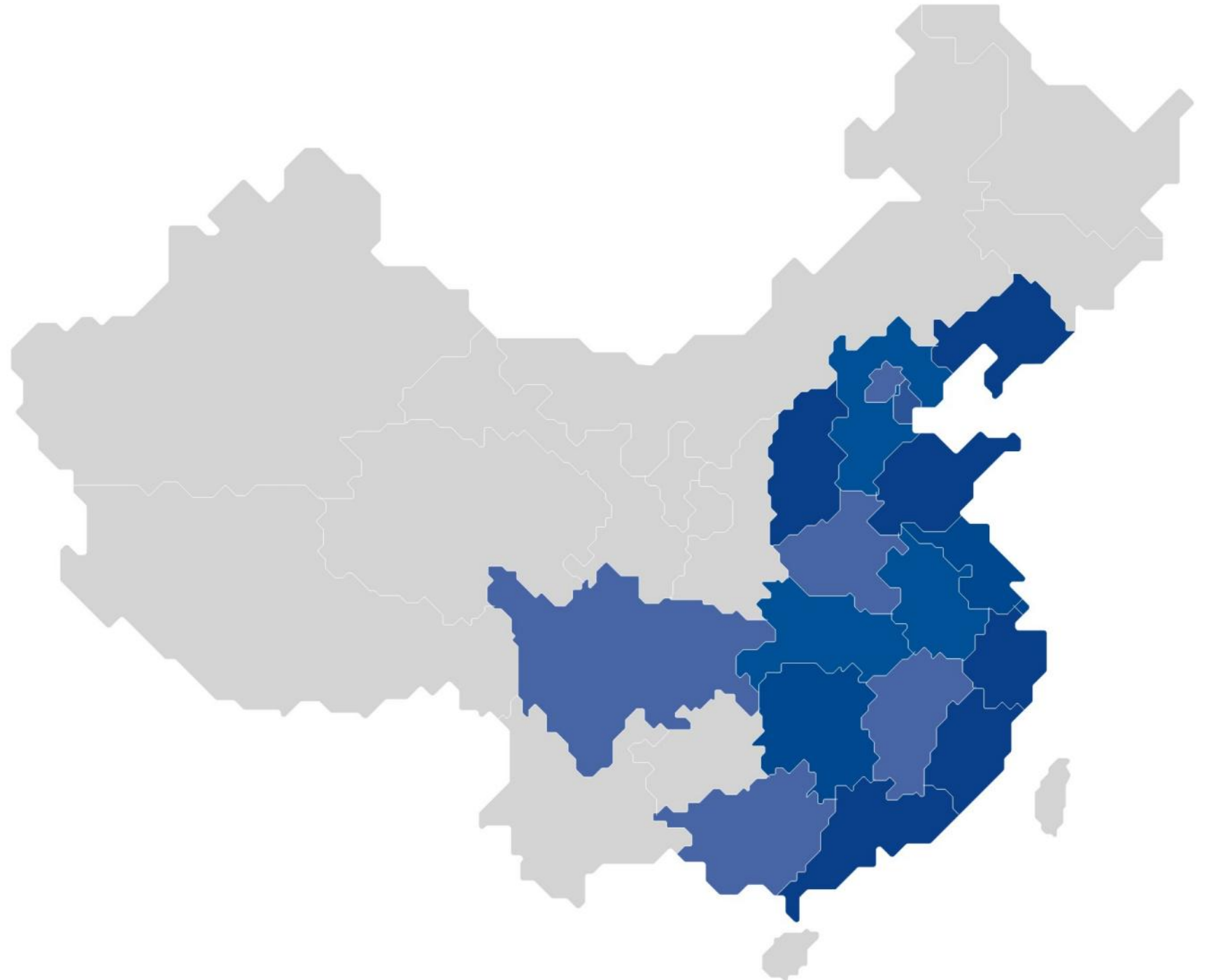
Close collaboration for mutual success and win-win outcomes.

## SHARED RESOURCES

We provide comprehensive support in market research, brand promotion, product development, and supply chain management.

## BRAND INFLUENCE

Xingchen continues to lead the pneumatic industry, with a powerful brand influence that performs excellently in the market.



## Pneumatic Actuators



### A.Compact Cylinders

- 003 JCQ Series
- 003 CQ2 Series
- 003 CQM Series
- 003 CQS Series
- 004 XCSDA Series
- 004 XCACE Series
- 004 XCACQ Series
- 004 XCTACQ Series

### B.Double-Rod Cylinders

- 005 TDA Series
- 005 XCTR Series
- 005 CXS Series
- 005 CX2 SERIES
- 006 STM Series
- 006 XCSTW Series

### C.Free Mount Cylinders

- 006 CU Series
- 006 CUJ Series
- 007 XCMU Series
- 007 XCMD Series

### D.Guided Cylinders

- 007 MGP Series
- 007 XCTCM/L Series
- 008 MGJ Series
- 008 MGG Series

### E.Mini Cylinders

- 008 XCMAL Series
- 008 XCMA Series
- 009 XCMI/C85N Series
- 009 XCTMI Series
- 009 CJ2 Series
- 009 CM2(double-acting) Series
- 010 CM2(Single-acting) Series

- 010 CJP(Single-acting) Series
- 010 CJP(double-acting) Series
- 010 CJP2 Series
- 011 CG1 Series
- 011 XCMF Series
- 011 XCPB Series
- 011 XCMPE Series

### F.Air Grippers

- 012 MHZ2 Series
- 012 MHL2 Series
- 012 MHY2 Series
- 012 MHC2 Series
- 013 MHF2 Series
- 013 MHS2 Series
- 013 MHS3 Series
- 013 MHS4 Series
- 014 MHW2 Series
- 014 XCHFY Series
- 014 XCHFR Series
- 014 XCHFT Series
- 015 XCHFK Series
- 015 XCHFZ Series
- 015 XCHFC Series

### G.Slide Table Cylinders

- 015 MXS Series
- 016 MXQ Series
- 016 MXP Series
- 016 MXH Series
- 016 XCHLH Series
- 017 XCHLQ Series
- 017 XCHLS Series
- 017 XCHLF Series
- 017 CY1 Series

### H.Rodless Cylinders

- 018 CY3B Series
- 018 XCRMS Series
- 018 XCRMT Series
- 018 XCRMH Series

### I.Rotary Cylinders

- 019 CRA1 Series
- 019 MRHQ Series
- 019 CRQB Series

- 019 MSQ Series
- 020 XCHRQ Series
- 020 CRB2 Series
- 020 MK Series
- 020 XCACK Series
- 021 XCQCK Series

### J.Stopper Cylinders

- 021 RSQ Series
- 021 RSA Series
- 021 RS2H Series
- 022 XCTWH\M Series
- 022 XCTWQ Series

### K.Standard Cylinders

- 022 CA2 Series
- 022 MBB Series
- 023 XCSC Series
- 023 XCSCA Series
- 023 XCSCT Series
- 023 XCSU Series
- 024 XCSI Series
- 024 XCSE Series
- 024 XCSAI Series
- 024 XCTSAI Series
- 025 XCSAU Series

### L.Mounting Accessories

- 025 Magnetic Switches
- 026 Cylinder Accessories

## Control Components



### M.Solenoid Valve Manifold

- 029 XCVTG Series
- 029 XCSV Series

### N.Solenoid Valves,Valve Base

- 029 2V Series
- 030 3V1 Series
- 030 3V100~300 Series
- 030 5V100~400 Series

- 030 4V100~400 Series
- 031 4M Series
- 031 XCSY Series
- 031 VT307 Series
- 031 2W Series
- 032 Valve Base 3V Series
- 032 Valve Base 4V Series
- 032 Valve Base XCSY Series

### O.Air Controlling Valves

- 032 4A Series

### P.Manual Valves

- 033 3H/4H Series
- 033 3R/4R Series
- 034 4HV,4HVL Series

### Q.Check Valves,Foot Valves

- 034 XCKG Series

- 034 4F Series
- 034 FV Series

### R.Mechanical Valves

- 035 M3 Series
- 035 M5 Series
- 035 CM3 Series
- 035 JM322 Series
- 036 MOV321 Series
- 036 MV322 Series
- 036 MV522 Series
- 036 JMJ Series

### S.Booster Valves,Air Tank 037

### T.Quick Exhaust Valves 037

### Q.Flow Control Valves 037

### V.Vacuum Generation System 038

## Air Source Treatments



- 041 A Series Air Preparation
- 042 YA/YB Series Air Preparation

- 043 A-A/A-B Series Air Preparation
- 046 High-Precision Regulator
- 046 Residual Pressure Relief Valve
- 046 Soft Start Valve AV Series
- 047 Precision Pressure Regulator
- 047 Pressure Regulator XAR200
- 047 Pressure Regulating Valve
- 048 Pressure Regulator ARM5
- 049 High-pressure Series
- 049 Overflow Valve AP100
- 050 Automatic Drainage Device
- 050 Pressure Gauge G Series
- 050 Digital Pressure Sensor
- 050 Electro-pneumatic Regulator

## Pneumatic Accessories



### W.Shock Absorber

- 053 RB/RBC Series
- 053 AC/ACA/ACJ Series
- 053 AD/ACD Series

- 053 SR Series

### X.Silencer,Air Tubing,Cutter

- 054 Silencer
- 054 Tubing Cutter
- 054 Air Tubing

### Y.Quick Fitting

- 055 Mini Quick Fitting
- 055 Quick Fitting KQ2 Series
- 058 Mini Fitting KJ Series
- 059 Speed Control Valve AS
- 060 Quick Exhaust Valve AQ
- 060 Black Fitting KQ Series

- 061 Universal Threaded Fitting
- 061 Corrosion-Resistant Fitting
- 061 Self-Sealing Fitting KC Series
- 062 High-Speed Rotary Fitting
- 062 Check Valve AKH Series
- 062 Manual Valve VHK Series
- 062 Pneumatic Tube Fitting
- 063 Flow Control Valve
- 064 Copper Quick Connect Fitting
- 068 Stainless Steel Quick Fitting
- 069 Low Torque Rotary Joint
- 070 Special Customization



### JCQ Series Compact Cylinder

| Product Images                                                                                                                                          | JCQ                                      | A                                                                                           | 12                                                                                                                                                                            | □                                                                                | -                                        | 30 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------|----|
|                                                                        | Series Code                              | Mounting Type                                                                               | Bore(mm)                                                                                                                                                                      | Port Thread                                                                      | Stroke(mm)                               |    |
|                                                                                                                                                         | JCQ: Without magnet<br>JCDQ: With magnet | Unmarked: through Hole<br>A: Screw Hole<br>L: Axial Foot<br>F: Rod Flange<br>G: Head Flange | 12 40<br>16 50<br>20 63<br>25 80<br>32 100                                                                                                                                    | Unmarked: M Thread(Φ12~40),<br>Rc(Φ50~100)<br>TN: NPT(Φ50~100)<br>TF: G(Φ50~100) | 5 30<br>10 35<br>15 40<br>20 45<br>25 50 |    |
|                                                                                                                                                         | Specifications                           |                                                                                             |                                                                                                                                                                               |                                                                                  |                                          |    |
| <ul style="list-style-type: none"><li>Acting Pattern: double-acting</li><li>Withstand Pressure: 1.0MPa</li><li>Max Operating Pressure: 0.7MPa</li></ul> |                                          |                                                                                             | <ul style="list-style-type: none"><li>Min Operating Pressure: 0.05 or 0.07MPa</li><li>Temperature Requirement: 5~60℃</li><li>Piston Speed: 50~300mm/s or 50~500mm/s</li></ul> |                                                                                  |                                          |    |

### CQ2 Series Compact Cylinder

| Product Images                                                                                                                                                                                  | CDQ2                                                                                                                            | B                                                                                                                                | 20                                      | -                                              | 30                    | -                                                                                                      | □                                                                                             | D | M |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|---|
|                                                                                                               | Series Code                                                                                                                     | Mounting Type                                                                                                                    | Bore(mm)                                | Stroke(mm)                                     | Adjustable Stroke(mm) | Option                                                                                                 |                                                                                               |   |   |
|                                                                                                                                                                                                 | CQ2: without magnet<br>CDQ2: with magnet<br>CDQ2W: double rod<br>CQ2K: non-rotating rod<br>CQ2KW: non-rotating rod & double rod | A: screw hole<br>B: through hole<br>D: double clevis<br>F: rod side flange<br>G: head flange<br>L: foot type<br>LC: compact foot | 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 |                       | Unmarked: internal thread rod<br>M: external thread rod<br>C: with buffer<br>F: with boss in head side |                                                                                               |   |   |
| Specifications                                                                                                                                                                                  |                                                                                                                                 |                                                                                                                                  |                                         |                                                |                       |                                                                                                        | Acting Pattern                                                                                |   |   |
|                                                                                                                                                                                                 |                                                                                                                                 |                                                                                                                                  |                                         |                                                |                       |                                                                                                        | D: double-acting<br>S: single-acting (spring pull-into)<br>T: single-acting (spring push-out) |   |   |
| <ul style="list-style-type: none"> <li>Withstand Pressure: 1.5MPa</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Temperature Requirement: 5~60°C</li> <li>Piston Speed: 50~500mm/s</li> </ul> |                                                                                                                                 |                                                                                                                                  |                                         |                                                |                       |                                                                                                        |                                                                                               |   |   |

### CDQM Series Compact Cylinder

| Product Images                                                                      | CDQM                                                                                                                                                                                                                                                                                                                                                                                     | B                                                                   | 20                                                                 | □                                                                                                                 | -                                                                         | 10 |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----|
|  | <div>Series Code</div> <div>CQM:without magnet<br/>CDQM:with magnet</div>                                                                                                                                                                                                                                                                                                                | <div>Mounting Type</div> <div>A:screw hole<br/>B:through hole</div> | <div>Bore(mm)</div> <div>12,16,20,25,32,<br/>40,50,63,80,100</div> | <div>Port Thread</div> <div>Unmarked:M(Φ12-Φ25) or<br/>Rc(Φ32-Φ100)<br/>TN:NPT(Φ32-Φ100)<br/>TF:G(Φ32-Φ100)</div> | <div>Stroke(mm)</div> <div>5,10,15,20,25,30,<br/>35,40,45,50,75,100</div> |    |
|                                                                                     | <div>Specifications</div> <div><div><div>• Type: with guide rod</div><div>• Acting:double-acting</div><div>• Withstand Pressure:1.0MPa</div></div><div><div>• Min Operating Pressure:0.1MPa or 0.12MPa</div><div>• Temperature Requirement:-10~70°C(without magnetic sensor),-10~60°C(unfrozen,with magnetic sensor)</div><div>• Piston Speed:50~300mm/s or 50~500mm/s</div></div></div> |                                                                     |                                                                    |                                                                                                                   |                                                                           |    |

### CQSB Series Compact Cylinder

| Product Images                                                                      | CDQS                                                                              | B                                                                                                                                                    | 20                                         | -                                                                                 | 30                                                                                                                              | D                                                                                                     | M |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---|
|  | <div>Series Code</div> <div>CQS:without magnet<br/>CDQS:with magnet</div>         | <div>Mounting Type</div> <div>B:through hole/screw hole<br/>L:foot bracket<br/>F:rod side flange<br/>G:rodless side flange<br/>D:double clevis</div> | <div>Bore(mm)</div> <div>12,16,20,25</div> | <div>Stroke(mm)</div> <div>5,10,15,20,25,<br/>30,35,40,45,50</div>                | <div>Acting Pattern</div> <div>D:double-acting<br/>S:single-acting(spring pull-into)<br/>T:single-acting(spring push-out)</div> | <div>Option</div> <div>Unmarked:internal thread rod<br/>M:external thread rod<br/>C:with buffer</div> |   |
|                                                                                     | Specifications                                                                    |                                                                                                                                                      |                                            |                                                                                   |                                                                                                                                 |                                                                                                       |   |
|                                                                                     | <div>• Withstand Pressure:1.5MPa</div> <div>• Max Operating Pressure:1.0MPa</div> |                                                                                                                                                      |                                            | <div>• Temperature Requirement:-10~60℃</div> <div>• Piston Speed:50~500mm/s</div> |                                                                                                                                 |                                                                                                       |   |

### XCSDA Series Compact Cylinder

| Product Images                                                                      | XCSDA                                                                                                                                                                                                                                                                                                                                 | 40                                                         | -                                                                                                              | 50                                                          | -                                                                                                             | □ | S | B |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---|---|---|
|  | <b>Series Code</b><br>XC: corporate code<br>XCSDA: double-acting<br>XCSSA: single-acting (spring push-out)<br>XCSTA: single-acting (spring pull-into)<br>XCSDAD: double-rod & double-acting<br>XCSDAJ: double-acting & stroke adjustable<br>XCSDAT: double-acting & free mount<br>XCSDAW: double-acting & multi-position & double-rod | <b>Bore(mm)</b><br>12, 16, 20, 25, 32, 40, 50, 63, 80, 100 | <b>Stroke(mm)</b><br>5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 100, 110, 120, 130 | <b>Adjustable Stroke(mm)</b><br>10, 20, 30, 40, 50, 70, 100 | <b>Rod Thread</b><br>Unmarked: internal thread<br>B: external thread<br>N: non-threaded<br><br>S: with magnet |   |   |   |
|                                                                                     | <b>Specifications</b>                                                                                                                                                                                                                                                                                                                 |                                                            |                                                                                                                |                                                             |                                                                                                               |   |   |   |
|                                                                                     | <ul style="list-style-type: none"><li>• Ultra-thin type, the length is 1/2 or 1/3 of a normal cylinder</li><li>• Embedded mounting type</li></ul>                                                                                                                                                                                     |                                                            |                                                                                                                |                                                             |                                                                                                               |   |   |   |

### XCACE Series Compact Cylinder

| Product Images                                                                      | XCACE                                                                                                                                                                                                                                                                                                                                                 | 20                                                              | -                                                                                                                          | 30                                                          | □                                                                    | S | B                                                                                                                                          | FA |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------|----|
|  | <b>Series Code</b><br>XC: corporate code<br>XCACE: double-acting<br>XCASE: single-acting (spring push-out)<br>XCATE: single-acting (spring pull-into)<br>XCACED: double-rod & double-acting<br>XCACEJ: double-rod & double-acting & stroke adjustable<br>XCACE: double-acting & with guide rod<br>XCACED: double-rod & double-acting & with guide rod | <b>Bore(mm)</b><br>12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125 | <b>Stroke(mm)</b><br>5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 110, 120, 125, 150, 160, 175, 200, 225, 250, 275, 300 | <b>Adjustable Stroke(mm)</b><br>10, 20, 30, 40, 50, 75, 100 | <b>Rod Thread</b><br>Unmarked: internal thread<br>B: external thread |   | <b>Mounting Type</b><br>Unmarked: standard type<br>FA: above flange<br>FB: back flange<br>CA: single clevis base<br>CB: double clevis base |    |
|                                                                                     | S: with magnet                                                                                                                                                                                                                                                                                                                                        |                                                                 |                                                                                                                            |                                                             |                                                                      |   |                                                                                                                                            |    |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"><li>• Operating Pressure Range: 0.1~1.0MPa (double-acting), 0.2~1.0MPa (single-acting)</li><li>• Withstand Pressure: 1.5MPa</li><li>• Temperature Requirement: -20~80℃</li><li>• Piston Speed: 30~500mm/s (double-acting), 50~500mm/s (single-acting)</li></ul>                               |                                                                 |                                                                                                                            |                                                             |                                                                      |   |                                                                                                                                            |    |

### XCACQ Series Compact Cylinder

| Product Images                                                                        |                                                                                                                                                                                                                                                                                                                          | XCACQ                                                            |                                                                                              | 20                           | - | 30                                                                   | - | 10                                                                                                                                         | S | B | FA |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------|---|----------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|
|  | <b>Series Code</b><br>XC: corporate code<br>XCACQ: double-acting<br>XCASQ: single-acting (spring push-out)<br>XCATQ: single-acting (spring pull-into)<br>XCACQD: double-rod & double-acting<br>XCACQJ: double-rod & double-acting & stroke adjustable                                                                    | <b>Bore(mm)</b><br>12, 16, 20, 25,<br>32, 40, 50, 63,<br>80, 100 | <b>Stroke(mm)</b><br>5, 10, 15, 20, 25,<br>30, 35, 40, 45,<br>50, 60, 70, 75,<br>80, 90, 100 | <b>Adjustable Stroke(mm)</b> |   | <b>Rod Thread</b><br>Unmarked: internal thread<br>B: external thread |   | <b>Mounting Type</b><br>Unmarked: standard type<br>FA: above flange<br>FB: back flange<br>CA: single clevis base<br>CB: double clevis base |   |   |    |
|                                                                                       | S: with magnet                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                              |                              |   |                                                                      |   |                                                                                                                                            |   |   |    |
|                                                                                       | <b>Specifications</b> <ul style="list-style-type: none"><li>• Operating Pressure Range: 0.15-1.0MPa (double-acting), 0.2-1.0MPa (single-acting)</li><li>• Withstand Pressure: 1.5MPa</li><li>• Temperature Requirement: -20~70℃</li><li>• Piston Speed: 30-500mm/s (double-acting), 50-500mm/s (single-acting)</li></ul> |                                                                  |                                                                                              |                              |   |                                                                      |   |                                                                                                                                            |   |   |    |

### XCTACQ Series Compact Cylinder

| Product Images                                                                        | XCTACQ                                                                                                                                                                                                                           | 50                                                                  | - | 100                                                                        | S                        | <input type="checkbox"/>                                    |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---|----------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------|
|  | <div>Series Code</div> <p>XC: corporate code<br/>XCTACQ: double-acting&amp;with guide rod</p>                                                                                                                                    | <div>Bore(mm)</div> <p>12,16,20,25,<br/>32,40,50,63,<br/>80,100</p> |   | <div>Stroke(mm)</div> <p>5,10,15,20,25,<br/>30,35,40,45,<br/>50,75,100</p> | <div>S:with magnet</div> | <div>Thread Type</div> <p>Unmarked:PT<br/>G:G<br/>T:NPT</p> |
|                                                                                       | <div>Specifications</div> <ul style="list-style-type: none"><li>• Operating Pressure Range:0.15~1.0MPa</li><li>• Withstand Pressure:1.5MPa</li><li>• Temperature Requirement:-20~70℃</li><li>• Piston Speed:30~500mm/s</li></ul> |                                                                     |   |                                                                            |                          |                                                             |

## TDA Series Double-Rod Cylinder

| Product Images                                                                                                                                                                                                                                                  | TDA                                                                                      | 25                                | - | 50                                                                          |                              |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------|---|-----------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|                                                                                                                                                                                | <b>Series Code</b><br>TDA: double-rod&double-acting<br>TDAW: double-rod&double-direction | <b>Bore(mm)</b><br>12,16,20,25,32 |   | <b>Stroke(mm)</b><br>10,20,30,40,50,<br>60,70,80,90,100,<br>125,150,175,200 | <b>Adjustable Stroke(mm)</b> | <b>Rod Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.5MPa</li> <li>Operating Pressure Range:0.1~1.0MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:30~500mm/s</li> </ul> |                                                                                          |                                   |   |                                                                             |                              |                                                  |

## XCTR Series Double-Rod Cylinder

| Product Images                                                                                                                                                                                                                                                   | XCTR                                                | 20                                  | - | 50                                                                          | S             |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------|---|-----------------------------------------------------------------------------|---------------|--------------------------------------------------|
|                                                                                                                                                                                 | <b>Series Code</b><br>XCTR:double-rod&double-acting | <b>Bore(mm)</b><br>6,10,16,20,25,32 |   | <b>Stroke(mm)</b><br>10,20,30,40,50,<br>60,70,80,90,100,<br>125,150,175,200 | S:with magnet | <b>Rod Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.5MPa</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:30~500mm/s</li> </ul> |                                                     |                                     |   |                                                                             |               |                                                  |

## CXS Series Double-Rod Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                      | CXS                                                                                                         | M                                                          | 20                                  | - | P                                                        | 50                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|---|----------------------------------------------------------|------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                  | <b>Series Code</b><br>CXS:double-rod&single-direction<br>CXSW:double-rod&two-direction<br>CXSJ:compact size | <b>Bearing type</b><br>M:sliding bearing<br>L:ball bearing | <b>Bore(mm)</b><br>6,10,15,20,25,32 |   | <b>Piping</b><br>Unmarked:Φ6-Φ25<br>P:axial pipingΦ6-Φ10 | <b>Stroke(mm)</b><br>5,10,15,20,25,30,<br>35,40,45,50,75,80,<br>90,100 |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Thrust:double thrust</li> <li>Max Operating Pressure:0.7MPa</li> <li>Min Operating Pressure:0.05MPa,0.1MPa,0.15MPa</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> <li>Piston Speed:30~800mm/s or 50~500mm/s</li> </ul> |                                                                                                             |                                                            |                                     |   |                                                          |                                                                        |

## CX2 Series Slide Table Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                                                                                         | CX2                                                                                                                               | N                                                     | 20                          | - | 100                                                   | B                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|---|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                     | <b>Series Code</b><br>CX2:basic type<br>CDBX2:with body mounting magnetic switch<br>CDPX2:with end plate mounting magnetic switch | <b>Type Code</b><br>N:oil-free type<br>H:air-oil type | <b>Bore(mm)</b><br>10,15,25 |   | <b>Stroke(mm)</b><br>25,50,75,100,125,<br>150,175,200 | <b>Ltinerary Adjustment</b><br>Unmarked:with two adjustable bolts<br>B:with two hydraulic shock absorbers<br>BS:with one hydraulic shock absorber |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Thrust:double thrust</li> <li>Withstand Pressure:1.5MPa</li> <li>Max Operating Pressure:0.99MPa</li> <li>Min Operating Pressure:0.1MPa,0.15MPa</li> <li>Temperature Requirement:5~60°C</li> <li>Piston Speed:30~200mm/s(with adjustable bolt), 30~500mm/s(with Hydraulic Shock Absorber)</li> </ul> |                                                                                                                                   |                                                       |                             |   |                                                       |                                                                                                                                                   |

## STM Series Slide Table Cylinder

| Product Images                                                                                                                                                                                                                                                                                         | STM                                                   | B                                                            | 25                             | - | 50                                                        | T                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|--------------------------------|---|-----------------------------------------------------------|----------------------------------------------|
|                                                                                                                                                                                                                     | <b>Series Code</b><br>STM:double-piston&double-acting | <b>Mounting Type</b><br>B:body mounting<br>S:slider mounting | <b>Bore(mm)</b><br>10,16,20,25 |   | <b>Stroke(mm)</b><br>25,50,75,100,125,<br>150,175,200,250 | <b>Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.35MPa</li> <li>Operating Pressure Range:0.1~0.9MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:30~500mm/s</li> <li>Tips:this series with magnet</li> </ul> |                                                       |                                                              |                                |   |                                                           |                                              |

## XCSTW Series Slide Table Cylinder

| Product Images                                                                                                                                                                                                                                                                                                        | XCSTW                                                        | B                                                           | 25                                | - | 50                                                        | S             | T                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------|---|-----------------------------------------------------------|---------------|----------------------------------------------|
|                                                                                                                                                                                                                                    | <b>Series Code</b><br>XC:corporate code<br>STW:double-acting | <b>Mounting Type</b><br>A:plate mounting<br>B:body mounting | <b>Bore(mm)</b><br>10,16,20,25,32 |   | <b>Stroke(mm)</b><br>25,50,75,100,125,<br>150,175,200,250 | S:with magnet | <b>Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.5MPa</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:30~500mm/s</li> <li>Non-Rotational Accuracy:±0.03°,±0.05°,±0.1°</li> </ul> |                                                              |                                                             |                                   |   |                                                           |               |                                              |

## CU Series Free Mount Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                   | CDU                                                        | K | 6                                 | TN | -                                                               | 30 | D                                                                                                                 | M                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---|-----------------------------------|----|-----------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                                                                                                                                                                                             | <b>Series Code</b><br>CU:without magnet<br>CDU:with magnet |   | <b>Bore(mm)</b><br>10,16,20,25,32 |    | <b>Stroke(mm)</b><br>5,10,15,20,25,30,40,<br>50,60,70,80,90,100 |    | <b>Acting Pattern</b><br>D:double-acting<br>S:single-acting(spring push-out)<br>T:single-acting(spring pull-into) | <b>Rod Thread</b><br>Unmarked:Internal Thread<br>M:External Thread |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:0.7MPa</li> <li>Min Operating Pressure:0.05MPa</li> <li>Temperature Requirement:-10~60°C(with magnetic sensors), -10~70°C(without magnetic sensors)</li> <li>Piston Speed:50~500mm/s</li> <li>Non-Rotational Accuracy:±0.5°,±0.8°</li> </ul> |                                                            |   |                                   |    |                                                                 |    |                                                                                                                   |                                                                    |

## CUJ Series Free Mount Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                   | CUJ                                                          | B                                                  | 6                                    | - | 10                                                        | D                                                           |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------|--------------------------------------|---|-----------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                                                                                                                                                                                             | <b>Series Code</b><br>CUJ:without magnet<br>CDUJ:with magnet | <b>Mounting Type</b><br>B:basic type(through hole) | <b>Bore(mm)</b><br>4,6,8,10,12,16,20 |   | <b>Stroke(mm)</b><br>4,6,8,10,15,20,25,<br>30,35,40,45,50 | <b>Acting Pattern</b><br>D:double-acting<br>S:single-acting | <b>Rod Thread</b><br>Unmarked:internal thread<br>M:external thread |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:0.7MPa</li> <li>Min Operating Pressure:0.05MPa</li> <li>Temperature Requirement:-10~60°C(with magnetic sensors), -10~70°C(without magnetic sensors)</li> <li>Piston Speed:50~500mm/s</li> <li>Non-Rotational Accuracy:±0.5°,±0.8°</li> </ul> |                                                              |                                                    |                                      |   |                                                           |                                                             |                                                                    |

## XCMU Series Free Mount Cylinder

| Product Images                                                                                                                                                                                                                                                                | XCMU                                                                                               | R                                                                | 6                                   | -                                                         | 30                                                            | S              | □ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|----------------|---|
|                                                                                                                                                                                              | Series Code<br>XC: corporate code<br>XCMU: double-acting<br>XCMSU: single-acting (spring push-out) | Mounting Type<br>Unmarked: lateral mounting<br>R: axial mounting | Bore(mm)<br>4, 6, 8, 10, 12, 16, 20 | Stroke(mm)<br>4, 6, 8, 10, 15, 20, 25, 30, 35, 40, 45, 50 | Rod Thread<br>Unmarked: internal thread<br>B: external thread | S: with magnet |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operating Pressure Range: 0.15MPa-0.7MPa</li> <li>Withstand Pressure: 1.2MPa</li> <li>Temperature Requirement: -20~70°C</li> <li>Piston Speed: 30-500mm/s (double-acting), 50-500mm/s (single-acting)</li> </ul> |                                                                                                    |                                                                  |                                     |                                                           |                                                               |                |   |

## XCMD Series Free Mount Cylinder

| Product Images                                                                                                                                                                                                                                                                                                            | XCMD                                                                                                                                                                                                                                                | 6                                 | -                                                   | 30                    | -                                  | 20             | S | □ |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------|-----------------------|------------------------------------|----------------|---|---|
|                                                                                                                                                                                                                                          | Series Code<br>XC: corporate code<br>XCMD: multi-position mounting<br>XCMSD: single-acting (spring push-out)<br>XCMTD: single-acting (spring pull-in)<br>XCMDJ: double-acting & double-rod<br>XCMDJ: double-acting & double-rod & stroke adjustable | Bore(mm)<br>6, 10, 16, 20, 25, 32 | Stroke(mm)<br>5, 10, 15, 20, 25, 30, 40, 45, 50, 60 | Adjustable Stroke(mm) | Rod Thread<br>Unmarked: PT<br>G: G | S: with magnet |   |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operating Pressure Range: 0.15MPa-1.0MPa (double-acting), 0.2-1.0MPa (single-acting)</li> <li>Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -20~70°C</li> <li>Piston Speed: 30-500mm/s (double-acting), 50-500mm/s (single-acting)</li> </ul> |                                                                                                                                                                                                                                                     |                                   |                                                     |                       |                                    |                |   |   |

## MGP Series Guided Cylinder

| Product Images                                                                                                                                                                                                                                                                                       | MGP         | M                                                                                        | 25                                                  | □                                                         | -                                                                                 | 30 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|----|
|                                                                                                                                                                                                                   | Series Code | Bearing type<br>M: sliding bearing<br>L: ball bearing<br>A: highly accurate ball bearing | Bore(mm)<br>12, 16, 20, 25, 32, 40, 50, 63, 80, 100 | Port Thread<br>Unmarked: M5X0.8 or Rc<br>Tn: NPT<br>TF: G | Stroke(mm)<br>10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400 |    |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Min Operating Pressure: 0.1MPa or 0.12MPa</li> <li>Temperature Requirement: -10~60°C (unfrozen)</li> <li>Piston Speed: 50-400mm/s, 50-500mm/s</li> </ul> |             |                                                                                          |                                                     |                                                           |                                                                                   |    |

## XCTCL/XCTCM Series Guided Cylinder

| Product Images                                                                                                                                                                                                                                                                                                      | XCTC                                               | M                                                  | J                                                          | 50                                                                                                 | -                     | 50                                            | -              | 20 | S | T |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------|----------------|----|---|---|
|                                                                                                                                                                                                                                  | Series Code<br>XC: corporate code<br>TC: three-rod | type<br>Unmarked: basic type<br>J: adjustable type | Bore(mm)<br>6, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 | Stroke(mm)<br>5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 125, 150, 175, 200, 225, 250 | Adjustable Stroke(mm) | Thread Type<br>Unmarked: PT<br>T: NPT<br>G: G | S: with magnet |    |   |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Withstand Pressure: 1.05 or 1.5MPa</li> <li>Operating Pressure Range: 0.1-1.0MPa</li> <li>Temperature Requirement: -20~70°C (unfrozen)</li> <li>Piston Speed: 50-500mm/s or 50-400mm/s or 50-500mm/s</li> </ul> |                                                    |                                                    |                                                            |                                                                                                    |                       |                                               |                |    |   |   |

## MGJ Series Guided Cylinder

| Product Images                                                                                                                                                                                                                                                                 | MGJ                                            | 6                 | -                           | 10 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------|-----------------------------|----|
|                                                                                                                                                                                             | Series Code<br>MGJ: compact three-rod cylinder | Bore(mm)<br>6, 10 | Stroke(mm)<br>5, 10, 15, 20 |    |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Max Operating Pressure: 0.7MPa</li> <li>Min Operating Pressure: 0.15MPa</li> <li>Temperature Requirement: -10~60°C (unfrozen)</li> <li>Piston Speed: 50-500mm/s</li> </ul> |                                                |                   |                             |    |

## MGG Series Guided Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                  | MGG                                            | M                                                   | B                                                          | 32                                          | □                                               | -                                              | 100 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------------------------|-----|
|                                                                                                                                                                                                                                             | Series Code<br>MGG: compact three-rod cylinder | Bearing type<br>M: slide bearing<br>L: ball bearing | Mounting Type<br>B: basic type<br>F: front mounting flange | Bore(mm)<br>20, 25, 32, 40, 50, 63, 80, 100 | Port Thread<br>Unmarked: Rc<br>TN: NPT<br>TF: G | Stroke(mm)<br>75, 100, 125, 150, 200, 250, 300 |     |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Min Operating Pressure: 0.15MPa</li> <li>Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -10~60°C (unfrozen)</li> <li>Piston Speed: 50-700mm/s, 50-1000mm/s</li> </ul> |                                                |                                                     |                                                            |                                             |                                                 |                                                |     |

## XCMA Series Mini Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                                                      | XCMA                                                                                                                                                                                                                                                   | 20                         | -                                                                                        | 50                    | -                                                                | 10                                                                               | S              | CM | FA |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------|----|----|
|                                                                                                                                                                                                                                                                                | Series Code<br>XCMA: double-acting<br>XCMSA: single-acting (spring push-out)<br>XCMTA: single-acting (spring pull-in)<br>XCMAJ: double-rod & double-acting<br>XCMAJ: cushioning adjustable & double-acting<br>XCMAJ: stroke adjustable & double-acting | Bore(mm)<br>20, 25, 32, 40 | Stroke(mm)<br>25, 50, 75, 80, 100, 125, 150, 160, 175, 200, 250, 300, 350, 400, 450, 500 | Adjustable Stroke(mm) | Back Cover<br>CA: wagg cover<br>CM: round cover<br>U: flat cover | Mounting Type<br>FA: front flange<br>SDB: rear hinge bracket<br>LB: foot bracket | S: with magnet |    |    |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Materials: aluminum alloy</li> <li>Withstand Pressure: 1.5MPa</li> <li>Operating Pressure Range: 0.1-1.0MPa (double-acting), 0.2-1.0MPa (single-acting)</li> <li>Temperature Requirement: -20~70°C (unfrozen)</li> <li>Piston Speed: 50-800mm/s (single-acting), 30-800mm/s (double-acting)</li> </ul> |                                                                                                                                                                                                                                                        |                            |                                                                                          |                       |                                                                  |                                                                                  |                |    |    |

## XCMA Series Mini Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                                                        | XCMA                                                                                                                                                                                                                                                                                                  | 20                                     | -                                                                                        | 50                    | -                                                                | 10                                                                               | S              | CM | FA |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------|----|----|
|                                                                                                                                                                                                                                                                                  | Series Code<br>XCMA: double-acting<br>XCMSA: single-acting (spring push-out)<br>XCMTA: single-acting (spring pull-in)<br>XCMAJ: double-rod & adjustable cushioning<br>XCMAJ: double-rod & double-acting<br>XCMAJ: stroke adjustable & double-acting<br>XCMAJ: double-rod & double-acting & cushioning | Bore(mm)<br>16, 20, 25, 32, 40, 50, 63 | Stroke(mm)<br>25, 50, 75, 80, 100, 125, 150, 160, 175, 200, 250, 300, 350, 400, 450, 500 | Adjustable Stroke(mm) | Back Cover<br>CA: wagg cover<br>CM: round cover<br>U: flat cover | Mounting Type<br>FA: front flange<br>SDB: rear hinge bracket<br>LB: foot bracket | S: with magnet |    |    |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Materials: stainless steels</li> <li>Withstand Pressure: 1.5MPa</li> <li>Operating Pressure Range: 0.1-1.0MPa (double-acting), 0.2-1.0MPa (single-acting)</li> <li>Temperature Requirement: -20~70°C (unfrozen)</li> <li>Piston Speed: 50-800mm/s (single-acting), 30-800mm/s (double-acting)</li> </ul> |                                                                                                                                                                                                                                                                                                       |                                        |                                                                                          |                       |                                                                  |                                                                                  |                |    |    |

## XCM/C85N Series Mini Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                                                         | XCM                                                                                                                                                                                                                                                     | 10                                               | - | 40                                                                                                                      | - | 10                                             | S | CM                                                                         | FA                                                                                                                          | T                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------|---|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
|                                                                                                                                                                                                                                                                                       | <b>Series Code</b><br>XCM: double-acting<br>XCMS: single-acting (spring push-out)<br>XCMTA: single-acting (spring pull-into)<br>XCMID: double-rod & double-acting<br>XCMIC: cushioning type & double-acting<br>XCMIJ: stroke adjustable & double-acting | <b>Bore(mm)</b><br>8, 10, 12, 16, 20, 25, 32, 40 |   | <b>Stroke(mm)</b><br>10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 100, 125, 150, 160, 175, 200, 250, 300, 350, 400, 450, 500 |   | <b>Adjustable Stroke(mm)</b><br>S: with magnet |   | <b>Back Cover</b><br>CA: wagging cover<br>CM: round cover<br>U: flat cover | <b>Mounting Type</b><br>FA: front flange<br>SDB: rear hinge bracket<br>LB: foot bracket<br>TC: intermediate trunnion clevis | <b>Thread</b><br>Unmarked: PT<br>T: NPT<br>G: G |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Materials: stainless steels</li> <li>Withstand Pressure: 1.5MPa</li> <li>Operating Pressure Range: 0.15-1.0MPa (double-acting), 0.2-1.0MPa (single-acting)</li> <li>Temperature Requirement: -20~70°C (unfrozen)</li> <li>Piston Speed: 50-800mm/s (single-acting), 30-800mm/s (double-acting)</li> </ul> |                                                                                                                                                                                                                                                         |                                                  |   |                                                                                                                         |   |                                                |   |                                                                            |                                                                                                                             |                                                 |

## XCTMI Series With Guide Frame Mini Cylinder

| Product Images                                                                                                                                                                                                                                                                   | XCTMI                                                                         | M                                                                    | 20                                | -                                                     | 50 | S              | □                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|----|----------------|------------------------------------------------------|
|                                                                                                                                                                                                 | <b>Series Code</b><br>XCTMI: basic type<br>XCTMIC: adjustable cushioning type | <b>Bearing Type</b><br>M: bronze sleeve bearing<br>L: linear bearing | <b>Bore(mm)</b><br>12, 16, 20, 25 | <b>Stroke(mm)</b><br>75, 100, 125, 150, 200, 250, 300 |    | S: with magnet | <b>Port Thread</b><br>Unmarked: PT<br>T: NPT<br>G: G |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Withstand Pressure: 1.5MPa</li> <li>Operating Pressure Range: 0.15-1.0MPa</li> <li>Temperature Requirement: -20~70°C (unfrozen)</li> <li>Piston Speed: 30-500mm/s</li> </ul> |                                                                               |                                                                      |                                   |                                                       |    |                |                                                      |

## CJ2 Series Mini Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                                                                                       | CJ2                                                            | B                                                                                                                                                             | 16                           | - | 60                                                               | A                                                                     | S                                                                        | □ | N                                                                                                                           | T                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---|------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|                                                                                                                                                                                                                                                                                                                   | <b>Series Code</b><br>CJ2: without magnet<br>CDJ2: with magnet | <b>Mounting Type</b><br>B: basic type<br>D: double clevis<br>E: double boss<br>F: rod side flange<br>G: head flange<br>L: one side foot<br>M: both sides foot | <b>Bore(mm)</b><br>6, 10, 16 |   | <b>Stroke(mm)</b><br>15, 30, 45, 60, 75, 100, 125, 150, 175, 200 | <b>Cushioning</b><br>Unmarked: rubber cushioning<br>A: air cushioning | <b>Head Cover Port Location</b><br>Unmarked: radial 90°<br>R: axial load |   | <b>Rod End Bracket</b><br>T: flat rod end cap<br>U: round rod end cap<br>V: single knuckle joint<br>W: double knuckle joint | <b>Swing Base</b><br>N: with swing base |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Materials: stainless steels</li> <li>Acting Pattern: double-acting &amp; single-acting</li> <li>Max Operating Pressure: 0.7MPa</li> <li>Min Operating Pressure: 0.06MPa or 0.12MPa</li> <li>Temperature Requirement: -10~70°C (without magnetic sensors), -10~60°C (with magnetic sensors)</li> <li>Piston Speed: 50-750mm/s</li> </ul> |                                                                |                                                                                                                                                               |                              |   |                                                                  |                                                                       |                                                                          |   |                                                                                                                             |                                         |

## CM2 Series Mini Cylinder(double-acting)

| Product Images                                                                                                                                                                                                                                                                                                                 | CM2                                                            | L                                                                                                                                      | 40                                | □                                                      | -                                                             | 150                                                                   | A                                                                                          | J |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---|
|                                                                                                                                                                                                                                             | <b>Series Code</b><br>CM2: without magnet<br>CDM2: with magnet | <b>Mounting Type</b><br>B: basic type<br>L: axial foot<br>F: rod side flange<br>G: head flange<br>C: single clevis<br>D: double clevis | <b>Bore(mm)</b><br>20, 25, 32, 40 | <b>Port Thread</b><br>Unmarked: Rc<br>TN: NPT<br>TF: G | <b>Stroke(mm)</b><br>25, 50, 75, 100, 125, 150, 200, 250, 300 | <b>Cushioning</b><br>Unmarked: rubber cushioning<br>A: air cushioning | <b>Protective Cover</b><br>Unmarked: without<br>J: nylon cover<br>K: heat-resistant canvas |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Materials: stainless steels</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Min Operating Pressure: 0.05MPa</li> <li>Temperature Requirement: -10~70°C (without magnetic sensors), -10~60°C (with magnetic sensors)</li> <li>Piston Speed: 50-750mm/s</li> </ul> |                                                                |                                                                                                                                        |                                   |                                                        |                                                               |                                                                       |                                                                                            |   |

## CM2 Series Mini Cylinder(single-acting)

| Product Images                                                                                                                                                                                                                                                                                                                                                               | CM2                                                            | L                                                                                                                                      | 40                                | -                                                        | 150 | S                                                                    | □ | N                                       | V                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------|-----|----------------------------------------------------------------------|---|-----------------------------------------|------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                           | <b>Series Code</b><br>CM2: without magnet<br>CDM2: with magnet | <b>Mounting Type</b><br>B: basic type<br>L: axial foot<br>F: rod side flange<br>G: head flange<br>C: single clevis<br>D: double clevis | <b>Bore(mm)</b><br>20, 25, 32, 40 | <b>Stroke(mm)</b><br>25, 50, 75, 100, 125, 150, 200, 250 |     | <b>Rod Thread</b><br>Unmarked: internal thread<br>F: external thread |   | <b>Swing Base</b><br>N: with swing base | <b>Rod End Bracket</b><br>V: single knuckle joint<br>W: double knuckle joint |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Materials: stainless steels</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Min Operating Pressure: 0.18MPa (spring pull-into), 0.23MPa (spring push-out)</li> <li>Temperature Requirement: -10~70°C (without magnetic sensors), -10~60°C (with magnetic sensors)</li> <li>Piston Speed: 50-750mm/s</li> </ul> |                                                                |                                                                                                                                        |                                   |                                                          |     |                                                                      |   |                                         |                                                                              |

## CJP Series Pin Cylinder(single-acting)

| Product Images                                                                                                                                                                                                                                                          | CJP                                                            | B                                                          | 6                            | -                              | 10 | H4                                                                   | B                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|------------------------------|--------------------------------|----|----------------------------------------------------------------------|-----------------------------------------------------------------|
|                                                                                                                                                                                      | <b>Series Code</b><br>CJP: without magnet<br>CDJP: with magnet | <b>Mounting Type</b><br>B: panel mount<br>S: embedded type | <b>Bore(mm)</b><br>6, 10, 15 | <b>Stroke(mm)</b><br>5, 10, 15 |    | <b>Hose Nipple</b><br>H4: for Ø4/Ø2.5 tubing<br>H6: for Ø6/Ø4 tubing | <b>Rod Thread</b><br>Unmarked: with thread<br>B: without thread |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure: 0.7MPa</li> <li>Min Operating Pressure: 0.15MPa, 0.2MPa (according to the bore)</li> <li>Temperature Requirement: -10~70°C (unfrozen)</li> <li>Piston Speed: 50-500mm/s</li> </ul> |                                                                |                                                            |                              |                                |    |                                                                      |                                                                 |

## CJP Series Pin Cylinder(double-acting)

| Product Images                                                                                                                                                                                                                                                                       | CJP                                                            | B                                                                                                                | 6                            | -                              | 10 | D                    | B                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|----|----------------------|-----------------------------------------------------------------|
|                                                                                                                                                                                                 | <b>Series Code</b><br>CJP: without magnet<br>CDJP: with magnet | <b>Mounting Type</b><br>B: panel mount<br>F: flange type<br>L: foot bracket<br>D: ear clamp<br>T: trunnion mount | <b>Bore(mm)</b><br>6, 10, 15 | <b>Stroke(mm)</b><br>5, 10, 15 |    | <b>Double-acting</b> | <b>Rod Thread</b><br>Unmarked: with thread<br>B: without thread |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure: 0.7MPa</li> <li>Min Operating Pressure: 0.06MPa or 0.12MPa</li> <li>Temperature Requirement: -10~70°C (unfrozen), -10~60°C (with magnetic sensors)</li> <li>Piston Speed: 50-500mm/s</li> </ul> |                                                                |                                                                                                                  |                              |                                |    |                      |                                                                 |

## CJP2 Series Pin Cylinder

| Product Images                                                                                                                                                                                                                                                                                  | CJP2                                                             | B                                                                                                               | 10                              | -                                                  | 15 | D                                         | B                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------|----|-------------------------------------------|-----------------------------------------------------------------|
|                                                                                                                                                                                                            | <b>Series Code</b><br>CJP2: without magnet<br>CDJP2: with magnet | <b>Mounting Type</b><br>B: basic type<br>F: flange type<br>L: foot bracket<br>D: ear clamp<br>T: trunnion mount | <b>Bore(mm)</b><br>4, 6, 10, 16 | <b>Stroke(mm)</b><br>5, 10, 15, 20, 25, 30, 35, 40 |    | <b>Acting Pattern</b><br>D: double-acting | <b>Rod Thread</b><br>Unmarked: with thread<br>B: without thread |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure: 0.7MPa</li> <li>Min Operating Pressure: 0.06MPa or 0.12MPa or 0.15MPa</li> <li>Temperature Requirement: -10~70°C (unfrozen), -10~60°C (with magnetic sensors)</li> <li>Piston Speed: 10-500mm/s</li> </ul> |                                                                  |                                                                                                                 |                                 |                                                    |    |                                           |                                                                 |

## CG1 Series Mini Cylinder

| Product Images                                                                    | CG1                                                                                                                                                                                                                                                                                      | B                                                                                                                                                                                                  | N                                                            | 40                                                        | - | 100                                                                                     | J                                               | □                                                                          | V |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|---|-----------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------|---|
|  | <b>Series Code</b><br>CG1:without magnet<br>CDG1:with magnet                                                                                                                                                                                                                             | <b>Mounting Type</b><br>B:basic type<br>Z:without trunnion mounting female thread<br>L:axial foot<br>F:rod side flange<br>G:head flange<br>U:rod side trunnion<br>T:head side trunnion<br>D:clevis | <b>Bore(mm)</b><br>20,25,32,40,50,63,80,100                  | <b>Stroke(mm)</b><br>25,50,75,100,125,150,175,200,250,300 |   | <b>Protective Cover</b><br>Unmarked:without<br>J:nylon cover<br>K:heat-resistant canvas |                                                 | <b>Rod End Bracket</b><br>V:single knuckle joint<br>W:double knuckle joint |   |
|                                                                                   |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                    | <b>Cushioning</b><br>N:rubber cushioning<br>A:air cushioning |                                                           |   |                                                                                         | <b>Swing base</b><br>Unmarked:without<br>N:with |                                                                            |   |
|                                                                                   | <b>Specifications</b><br><div><div>• Acting Pattern:double-acting<br/>• Max Operating Pressure:1.0MPa<br/>• Min Operating Pressure:0.05MPa</div><div>• Temperature Requirement:-10~70℃(unfrozen),-10~60℃(with magnetic sensors)<br/>• Piston Speed:50-700mm/s or 50-1000mm/s</div></div> |                                                                                                                                                                                                    |                                                              |                                                           |   |                                                                                         |                                                 |                                                                            |   |

## XCMF Series Mini Cylinder

| Product Images                                                                    | XCMF                                                                                                                                                                                                                                                                                                                                                                                          | 32                             | -                                                                                                           | 50 | -                                                     | 20 | S                                                                       | CA | FA                                                                                                                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------|----|-------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------|
|  | <b>Series Code</b><br>XCMF:double-acting<br>XCMFC:double-acting&adjustable cushion<br>XCMSF:single-acting(spring push-out)<br>XCMTF:single-acting(spring pull-into)<br>XCMFD:double-rod&double-acting<br>XCMFCD:double-rod&double-acting&adjustable cushioning<br>XCMFJ:double-rod&double-acting&adjustable stroke<br>XCMFCJ:double-rod&double-acting&adjustable cushioning&adjustable stroke | <b>Bore(mm)</b><br>20,25,32,40 | <b>Stroke(mm)</b><br>10,15,20,25,30,<br>50,60,75,80,100,<br>125,150,175,200,<br>250,300,350,400,<br>450,500 |    | <b>Adjustable<br/>Stroke(mm)</b><br><br>S:with magnet |    | <b>Back Cover</b><br>CA:wagging cover<br>CM:round cover<br>U:flat cover |    | <b>Mounting Type</b><br>FA:front flange<br>SDB:rear hinge bracket<br>LB:foot bracket<br>TC:intermediate trunnion clevis |
|                                                                                   | <b>Specifications</b><br><ul style="list-style-type: none"><li>• Materials:stainless steels</li><li>• Withstand Pressure:1.5Mpa</li><li>• Operating Pressure Range:0.15MPa-1.0MPa(double-acting),0.2MPa-1.0MPa(single-acting)</li><li>• Temperature Requirement:-20~70℃</li><li>• Piston Speed:30-800mm/s(double-acting),50-8000mm/s(single-acting)</li></ul>                                 |                                |                                                                                                             |    |                                                       |    |                                                                         |    |                                                                                                                         |

## XCPB Series Mini Cylinder

| Product Images                                                                                                                                                                                                                                                                                 | XCPB                                                                                                                                                                                                                                    | 10                                      | - | 30                                                                                                          | - | 20                               | S                        | CB                                                                                                       | FA                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---|-------------------------------------------------------------------------------------------------------------|---|----------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                             | <div>Series Code</div> <p>XCPB:double-acting<br/>XCPSB:single-acting(spring push-out)<br/>XCPTB:single-acting(spring pull-into)<br/>XCPBD:double-rod&amp;double-acting<br/>XCPBJ:double-rod&amp;double-acting&amp;adjustable stroke</p> | <div>Bore(mm)</div> <p>4,6,10,12,16</p> |   | <div>Stroke(mm)</div> <p>5,10,15,20,25,<br/>30,40,50,60,75,80,<br/>100,125,150,160,<br/>175,200,250,300</p> |   | <div>Adjustable Stroke(mm)</div> |                          | <div>Back Cover</div> <p>CB:double lug type<br/>U:radial air intake type<br/>R:axial air intake type</p> |                                                                                                   |
|                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                         |                                         |   |                                                                                                             |   |                                  | <div>S:with magnet</div> |                                                                                                          | <div>Mounting Type</div> <p>FA:front flange<br/>LB:axial mounting bracket<br/>CJ:foot bracket</p> |
| Specifications                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                         |                                         |   |                                                                                                             |   |                                  |                          |                                                                                                          |                                                                                                   |
| <ul style="list-style-type: none"><li>• Operating Pressure Range:0.2MPa-0.7MPa(double-acting),0.3MPa-0.7MPa(single-acting)</li><li>• Withstand Pressure:1.2Mpa</li><li>• Temperature Requirement:-20~70℃</li><li>• Piston Speed:50-500mm/s(double-acting),50-8000mm/s(single-acting)</li></ul> |                                                                                                                                                                                                                                         |                                         |   |                                                                                                             |   |                                  |                          |                                                                                                          |                                                                                                   |

## XCMPE Series Mini Cylinder

| Product Images                                                                      | XCMPE                                                                                                                                                                                                                                                                                                                         | 16                              | - | 15                           | - | 20                           | □                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|------------------------------|---|------------------------------|-------------------------------------------------------------------|
|  | <b>Series Code</b><br>XCMPE:spring push-out<br>XCMPEF:embedded mounting&spring push-out                                                                                                                                                                                                                                       | <b>Bore(mm)</b><br>6,8,10,12,16 |   | <b>Stroke(mm)</b><br>5,10,15 |   | <b>Adjustable Stroke(mm)</b> | <b>Rod Thread</b><br>Unmarked:external thread<br>N:without thread |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"><li>• Type:Threaded-type cylinder</li><li>• Acting Pattern:single-acting</li><li>• Operating Pressure Range:0.2MPa-0.7MPa or 0.15MPa-0.7MPa</li><li>• Withstand Pressure:1.2Mpa</li><li>• Temperature Requirement:-20~70℃</li><li>• Piston Speed:50-500mm/s</li></ul> |                                 |   |                              |   |                              |                                                                   |

## MHZ2 Series Air Grippers

| Product Images                                                                      | MHZ2 - 16                                                                                                                                                                                                                                                                       | D                                                                                                                                                 | 1                                                                                                               | X4                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Bore(mm)</b><br>6, 10, 16, 20, 25, 32, 40                                                                                                                                                                                                                                    | <b>Gripper Option</b><br>unmarked: basic type<br>1: side tapped mounting<br>2: through holes in opening/closing direction<br>3: flat type fingers | <b>Acting Pattern</b><br>D: double-acting<br>S: single-acting&normally open<br>C: single-acting&normally closed | <b>Made To Order</b><br>X4: heat resistance (100°C)<br>X5: fluororubber seal<br>X7: closing direction spring assist<br>X12: opening direction spring assist<br>X53: epdm seal/fluorine grease<br>X63: fluorine grease<br>X79: grease for food processing machines/fluorine grease<br>X79A: grease for food processing machines<br>X81A: anti-corrosive treatment of finger<br>X81B: anti-corrosive treatment of finger, guide and joint |
|                                                                                     | <b>Series Code</b><br>2: two grippers<br>MHZL2: long stroke<br>MHZJ2: dust cover                                                                                                                                                                                                |                                                                                                                                                   |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"> <li>Motion Type: Parallel opening and closing</li> <li>Max Operating Pressure: 0.7MPa</li> <li>Temperature Requirement: -10~60°C</li> <li>Accuracy: ±0.01mm</li> <li>Max use frequency: 60c.p.m or 180c.p.m</li> </ul> |                                                                                                                                                   |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## MHL2 Series Wide Type Air Grippers

| Product Images                                                                      | MHL2                                                                                                                                                                                                                                                                                                             | - | 16                                       | □                                                                                   | D                                        | □                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------|
|  | <b>Series Code</b><br>2:two grippers                                                                                                                                                                                                                                                                             |   | <b>Bore(mm)</b><br>10,16,20,25,<br>32,40 | <b>Port Thread</b><br>Unmarked:M(Φ10~Φ25)<br>Rc(Φ32~Φ40)<br>TN:NPT(Φ32~Φ40)<br>TF:G | <b>Acting Pattern</b><br>D:double-acting | <b>Grippers Stroke(mm)</b><br>20,30,40,50,60,70,<br>80,100,120,160,200 |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"><li>• Motion Type:Parallel opening and closing</li><li>• Max Operating Pressure:0.6MPa</li><li>• Min Operating Pressure:0.1MPa or 0.15MPa</li><li>• Temperature Requirement:-10~60℃</li><li>• Accuracy:±0.01mm</li><li>• Holding Power:14~396N</li></ul> |   |                                          |                                                                                     |                                          |                                                                        |

## MHY2 Series Air Grippers

| Product Images                                                                        | MHY2 - 16 D 2                                                                                                                                                                                                                                                                                                                        |                                            |                                                      |                                                                                                         |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  | <div>Series Code</div> <div>2:two grippers</div>                                                                                                                                                                                                                                                                                     | <div>Bore(mm)</div> <div>10,16,20,25</div> | <div>Acting Pattern</div> <div>D:double-acting</div> | <div>Finger Option</div> <div>Unmarked:screw hole<br/>2:through hole in opening/closing direction</div> |
|                                                                                       | <div>Specifications</div> <div><div><div>• Action Angle:180°</div><div>• Max Use Frequency:60c.p.m</div><div>• Max Operating Pressure:0.6MPa</div><div>• Min Operating Pressure:0.1MPa</div></div><div><div>• Temperature Requirement:-10~60℃</div><div>• Accuracy:±0.2mm</div><div>• Holding Torques:0.16~2.28N·m</div></div></div> |                                            |                                                      |                                                                                                         |

## MHC2 Series Air Grippers

| Product Images                                                                                                                                                                                                                                                                                                    | MHC2           | - | 20          | D                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|-------------|------------------------------------|
|                                                                                                                                                                                                                              | Series Code    |   | Bore(mm)    | Acting Pattern                     |
|                                                                                                                                                                                                                                                                                                                   | 2:two grippers |   | 10,16,20,25 | D:double-acting<br>S:single-acting |
| Specifications                                                                                                                                                                                                                                                                                                    |                |   |             |                                    |
| <div><div><ul style="list-style-type: none"><li>• Action Angle Range:30°~110°</li><li>• Max Use Frequency:180c.p.m</li><li>• Max Operating Pressure:0.6MPa</li></ul></div><div><ul style="list-style-type: none"><li>• Accuracy:±0.01mm</li><li>• Temperature Requirement:-10~60℃(unfrozen)</li></ul></div></div> |                |   |             |                                    |

## MHF2 Series Thin Type Air Grippers

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                   | MHF2                          | - | 16                        | D                                 | 1                                                                   | □                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---|---------------------------|-----------------------------------|---------------------------------------------------------------------|--------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                 | Series Code<br>2:two grippers |   | Bore(mm)<br>8,12,16,20,25 | Acting Pattern<br>D:double-acting | Stroke<br>Unmarked:short stroke<br>1:medium stroke<br>2:long stroke | Option<br>Unmarked:axial piping<br>R:side piping |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Action Angle Range:30°~10°</li> <li>Accuracy:±0.01mm</li> <li>Use frequency:60c.p.m(long stroke)/120c.p.m(medium&amp;short stroke)</li> <li>Max Operating Pressure:0.7MPa</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> <li>Holding Power per Gripper(N):19,48,90,141</li> <li>Moving Stroke(mm):8,12,16,20,24,32,40,48,64,80</li> </ul> |                               |   |                           |                                   |                                                                     |                                                  |

## MHS2 Series Thin Type Air Grippers

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                    | MHS2                          | - | 40                               | D                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---|----------------------------------|-----------------------------------|
|                                                                                                                                                                                                                                                                                                                                  | Series Code<br>2:two grippers |   | Bore(mm)<br>16,20,25,32,40,50,63 | Acting Pattern<br>D:double-acting |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Motion Type:Parallel opening and closing</li> <li>Max Operating Pressure:0.6MPa</li> <li>Max Use Frequency:60c.p.m or 120c.p.m</li> <li>Accuracy:±0.01mm</li> <li>Holding Power:21~502N(external diameter),23~537N(internal diameter)</li> <li>Grippers Moving Stroke(mm):4,6,8,12,16</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> </ul> |                               |   |                                  |                                   |

## MHS3 Series Thin Type Air Grippers

| Product Images                                                                                                                                                                                                                                                                                                                                                                      | MHS3                            | - | 40                                          | D                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|---------------------------------------------|-----------------------------------|
|                                                                                                                                                                                                                                                                                                  | Series Code<br>3:three grippers |   | Bore(mm)<br>16,20,25,32,40,50,63,80,100,125 | Acting Pattern<br>D:double-acting |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:0.6MPa</li> <li>Max Use Frequency:60c.p.m or 120c.p.m</li> <li>Accuracy:±0.01mm</li> <li>Holding Power:14~1270N(external diameter),16~1320N(internal diameter)</li> <li>Grippers Moving Stroke(mm):4,6,8,12,16,20,28,32,40,48,64</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> </ul> |                                 |   |                                             |                                   |

## MHS4 Series Thin Type Air Grippers

| Product Images                                                                                                                                                                                                                                                                                                                                                  | MHS4                           | - | 40                               | D                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---|----------------------------------|-----------------------------------|
|                                                                                                                                                                                                                                                                              | Series Code<br>4:four grippers |   | Bore(mm)<br>16,20,25,32,40,50,63 | Acting Pattern<br>D:double-acting |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:0.6MPa</li> <li>Max Use Frequency:60c.p.m or 120c.p.m</li> <li>Accuracy:±0.01mm</li> <li>Holding Power:10~251N(external diameter),12~268N(internal diameter)</li> <li>Grippers Moving Stroke(mm):4,6,8,12,16</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> </ul> |                                |   |                                  |                                   |

## MHW2 Series Air Grippers

| Product Images                                                                                                                                                                                                                                                                                | MHW2                          | - | 20                         | □ | D                                 | □                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---|----------------------------|---|-----------------------------------|---------------------------------------------------------------------------------|
|                                                                                                                                                                                                            | Series Code<br>2:two grippers |   | Bore(mm)<br>20,25,32,40,50 |   | Acting Pattern<br>D:double-acting | Option<br>Unmarked:standard type<br>2:through hole in opening/closing direction |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Motion Type:180°±2° opening and closing type</li> <li>Operating Pressure Range:0.15~0.7MPa</li> <li>Max Use Frequency:30c.p.m or 60c.p.m</li> <li>Accuracy:±0.2mm</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> </ul> |                               |   |                            |   |                                   |                                                                                 |

## XCHFY Series Y Type Air Grippers

| Product Images                                                                                                                                                                                                                | XCHFY                                                                     | 20                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------|
|                                                                                                                                           | Series Code<br>XCHFY:double-acting<br>XCHFTY:single-acting(normally open) | Bore(mm)<br>6,10,16,20,25,32 |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Action Angle Range:30°~10°</li> <li>Use Frequency:180c.p.m</li> <li>Max Operating Pressure:0.7MPa</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> </ul> |                                                                           |                              |

## XCHFR Series Air Grippers

| Product Images                                                                                                                                                                                                                                                              | XCHFR       | 20                         | □                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|------------------------------------------------------------------------|
|                                                                                                                                                                                        | Series Code | Bore(mm)<br>10,16,20,25,32 | Mounting Type<br>Unmarked:standard type<br>N:opening/closing direction |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Motion Type:180°±2° opening and closing type</li> <li>Max Operating Pressure:0.7MPa</li> <li>Max Use Frequency:60c.p.m</li> <li>Accuracy:±0.2mm</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> </ul> |             |                            |                                                                        |

## XCHFT Series Large-diameter Type Air Grippers

| Product Images                                                                                                                                                                                                               | XCHFT                              | 10                         | - | 20                                   | S             | □                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------|---|--------------------------------------|---------------|------------------------------|
|                                                                                                                                         | Series Code<br>XCHFT:double-acting | Bore(mm)<br>10,16,20,25,32 |   | Stroke(mm)<br>20,30,40,60,80,100,150 | S:with magnet | Thread<br>Unmarked:G<br>R:Rc |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Withstand Pressure:1.2MPa</li> <li>Operating Pressure Range:0.15~0.7MPa</li> <li>Accuracy:±0.1mm</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> </ul> |                                    |                            |   |                                      |               |                              |

## XCHF Series Air Grippers

| Product Images                                                                    | XCHF                                                                                                                                                                                                                                                                  | 20                                 |                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Series Code<br>XCHF: double-acting<br>XCHFS: single-acting (normally close)<br>XCHFT: single-acting (normally open)                                                                                                                                                   | Bore(mm)<br>10, 16, 20, 25, 32, 40 | Grippers Option<br>Unmarked: standard type<br>B: side mounting<br>N: through hole mounting<br>F: bottom mounting<br>R: wide & narrow grippers<br>W: side mounting (wide & narrow grippers)<br>M: through hole mounting (wide & narrow grippers) |
|                                                                                   | Specifications<br>• Type: Parallel with guide track-roller bearing<br>• Withstand Pressure: 1.2MPa<br>• Max Operating Pressure: 0.7MPa<br>• Max Use Frequency: 60c.p.m or 180c.p.m<br>• Accuracy: ±0.01mm or ±0.2mm<br>• Temperature Requirement: -20~70°C (unfrozen) |                                    |                                                                                                                                                                                                                                                 |

## XCHFZ Series Air Grippers

| Product Images                                                                     | XCHFZ                                                                                                                                                                                                                                  | 20                                    |                                                                                                                  |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  | Series Code<br>XCHFZ: double-acting<br>XCHFSZ: single-acting (normally close)<br>XCHFTZ: single-acting (normally open)                                                                                                                 | Bore(mm)<br>6, 10, 16, 20, 25, 32, 40 | Grippers Option<br>unmarked: standard type<br>B: side mounting<br>N: through hole mounting<br>F: bottom mounting |
|                                                                                    | Specifications<br>• Type: Parallel with guide track-roller bearing<br>• Max Operating Pressure: 0.7MPa<br>• Max Use Frequency: 60c.p.m or 180c.p.m<br>• Accuracy: ±0.01mm or ±0.02mm<br>• Temperature Requirement: -20~70°C (unfrozen) |                                       |                                                                                                                  |

## XCHFC Series Air Grippers

| Product Images                                                                      | XCHFC                                                                                                                                                                                                                      | Y                                                                           | 20                                     |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------|
|  | Series Code<br>XCHFC: double-acting                                                                                                                                                                                        | Grippers Option<br>I: two grippers<br>Y: three grippers<br>X: four grippers | Bore(mm)<br>16, 20, 25, 32, 40, 50, 63 |
|                                                                                     | Specifications<br>• Type: Parallel opening and closing<br>• Max Operating Pressure: 0.7MPa<br>• Max Use Frequency: 60c.p.m or 180c.p.m<br>• Accuracy: ±0.01mm or ±0.02mm<br>• Temperature Requirement: -20~70°C (unfrozen) |                                                                             |                                        |

## MXS Series Air Slide Table

| Product Images                                                                      | MXS                                                       | 12                                                                                                                                                                                                                                                                  | - | 50                                                     | AS                                                                                                                                                                                                                                                                                                        | F                                                                                                                                                      |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                           | Bore(mm)<br>Φ6x2, Φ8x2,<br>Φ12x2, Φ16x2,<br>Φ20x2, Φ25x2                                                                                                                                                                                                            |   | Stroke(mm)<br>10, 20, 30, 40, 50,<br>75, 100, 125, 150 | Adjuster Option<br>A: double end adjuster<br>AS: extension end adjuster<br>ASBT: extension end adjuster+retraction end absorber<br>AT: retraction end adjuster<br>B: double absorber<br>BS: extension end absorber<br>BSAT: extension end absorber+retraction end adjuster<br>BT: retraction end absorber | Functional Option<br>P: axial piping type<br>R: with end lock<br>F: with buffer<br>FP: with buffer & axial piping type<br>FR: with buffer and end lock |
|                                                                                     | Series Code<br>MXS: standard type<br>MXSL: symmetric type | Specifications<br>• Type: double-cylinder type, cross roller guide rail<br>• Acting Pattern: double-acting<br>• Max Operating Pressure: 0.7MPa<br>• Min Operating Pressure: 0.15MPa<br>• Temperature Requirement: -20~60°C (unfrozen)<br>• Piston Speed: 50~500mm/s |   |                                                        |                                                                                                                                                                                                                                                                                                           |                                                                                                                                                        |

## MXQ Series Air Slide Table

| Product Images                                                                      | MXQ                                                         | 12                                                                                                                                                                                                                                                                          | L | - | 50                                                     | AS                                                                                                                                                                                                                                                       | F                                                                                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                             | Bore(mm)<br>Φ6x2, Φ8x2,<br>Φ12x2, Φ16x2,<br>Φ20x2, Φ25x2                                                                                                                                                                                                                    |   |   | Stroke(mm)<br>10, 20, 30, 40, 50,<br>75, 100, 125, 150 | Adjuster Option<br>A: double end adjuster<br>AS: extension end adjuster<br>AT: retraction end adjuster<br>B: double absorber<br>BS: extension end absorber<br>BT: retraction end absorber<br>C: double metal stopper<br>CT: retraction end metal stopper | Functional Option<br>P: axial piping type<br>R: with end lock<br>F: with buffer<br>FP: with buffer & axial piping type<br>FR: with buffer and end lock |
|                                                                                     | Series Code<br>Unmarked: standard type<br>L: symmetric type | Specifications<br>• Type: double-cylinder type, recirculating linear guide rail<br>• Acting Pattern: double-acting<br>• Max Operating Pressure: 0.7MPa<br>• Min Operating Pressure: 0.15MPa<br>• Temperature Requirement: -20~60°C (unfrozen)<br>• Piston Speed: 50~500mm/s |   |   |                                                        |                                                                                                                                                                                                                                                          |                                                                                                                                                        |

## MXP Series Precision Air Slide Table

| Product Images                                                                      | MXP                                                                                                                                                                                         | 12                               | - | 15                                  |                                                                                      |                                                                                           |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---|-------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  | Series Code<br>MXP: standard type<br>MXPJ: clean type                                                                                                                                       | Bore(mm)<br>6, 8, 10, 12, 16, 20 |   | Stroke(mm)<br>5, 10, 15, 20, 25, 30 | Adjuster Option<br>Unmarked: rubber stopper<br>B: shock absorber<br>C: metal stopper | Functional Option<br>Unmarked: with magnet & guide rail<br>N: without magnet & guide rail |
|                                                                                     | Specifications<br>• Acting Pattern: double-acting<br>• Max Operating Pressure: 0.7MPa<br>• Withstand Pressure: 1.05MPa<br>• Temperature Requirement: -10~60°C<br>• Piston Speed: 50~500mm/s |                                  |   |                                     |                                                                                      |                                                                                           |

## MXH Series Precision Air Slide Table

| Product Images                                                                        | MXH                                                                                                                                                                                                                     | 10                        | - | 30                                                 |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|----------------------------------------------------|
|  | Series Code                                                                                                                                                                                                             | Bore(mm)<br>6, 10, 16, 20 |   | Stroke(mm)<br>5, 10, 15, 20, 25,<br>30, 40, 50, 60 |
|                                                                                       | Specifications<br>• Acting Pattern: double-acting<br>• Max Operating Pressure: 0.7MPa<br>• Temperature Requirement: -10~60°C (unfrozen, with magnet), -10~70°C (unfrozen, without magnet)<br>• Piston Speed: 50~500mm/s |                           |   |                                                    |

## XCHLH Series Precision Air Slide Table

| Product Images                                                                        | XCHLH                                                                                                                                                                                                                                  | 20                        | - | 30                                                 | S              |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|----------------------------------------------------|----------------|
|  | Series Code<br>XCHLH: side track type                                                                                                                                                                                                  | Bore(mm)<br>6, 10, 16, 20 |   | Stroke(mm)<br>5, 10, 15, 20, 25,<br>30, 40, 50, 60 | S: with magnet |
|                                                                                       | Specifications<br>• Type: side rail type<br>• Acting Pattern: double-acting<br>• Withstand Pressure: 1.2MPa<br>• Operating Pressure Range: 0.15~0.7MPa<br>• Temperature Requirement: -20~70°C (unfrozen)<br>• Piston Speed: 50~500mm/s |                           |   |                                                    |                |

## XCHLQ Series Precision Air Slide Table

| Product Images                                                                                                                                                                                                                                                                                                       | XCHLQ                                                              | 20                                 | - | 30                                                     | S             | AS                                                                                                                                                                                                                                                                               |                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------|---|--------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|                                                                                                                                                                                                                                     |                                                                    | <b>Bore(mm)</b><br>6,8,12,16,20,25 |   | <b>Stroke(mm)</b><br>10,20,30,40,50,<br>75,100,125,150 | S:with magnet | <b>Adjuster Option</b><br>Unmarked:basic type<br>A:adjustable rubber stopper (both ends)<br>AS:adjustable rubber stopper(extension)<br>AF: adjustable rubber stopper(retraction)<br>B:shock absorber(both ends)<br>BS:shock absorber(extension)<br>BF:shock absorber(retraction) | <b>Rod Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |
|                                                                                                                                                                                                                                                                                                                      | <b>Series Code</b><br>XCHLQ:standard type<br>XCHLQL:symmetric type |                                    |   |                                                        |               |                                                                                                                                                                                                                                                                                  |                                                  |
| <b>Specifications</b>                                                                                                                                                                                                                                                                                                |                                                                    |                                    |   |                                                        |               |                                                                                                                                                                                                                                                                                  |                                                  |
| <ul style="list-style-type: none"> <li>Type:double-rod type,recirculating ball guide rail</li> <li>Acting Pattern:double-acting</li> <li>Max Withstand Pressure:1.2MPa</li> <li>Operating Pressure Range:0.15-0.7MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Piston Speed:50-500mm/s</li> </ul> |                                                                    |                                    |   |                                                        |               |                                                                                                                                                                                                                                                                                  |                                                  |

## XCHLS Series Precision Air Slide Table

| Product Images                                                                                                                                                                                                                                                                                       | XCHLS                                                              | 20                                 | - | 30                                                     | S             | AS                                                                                                                                                                                                                                                                               |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------|---|--------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|                                                                                                                                                                                                                     |                                                                    | <b>Bore(mm)</b><br>6,8,12,16,20,25 |   | <b>Stroke(mm)</b><br>10,20,30,40,50,<br>75,100,125,150 | S:with magnet | <b>Adjuster Option</b><br>Unmarked:basic type<br>A:adjustable rubber stopper (both ends)<br>AS:adjustable rubber stopper(extension)<br>AF: adjustable rubber stopper(retraction)<br>B:shock absorber(both ends)<br>BS:shock absorber(extension)<br>BF:shock absorber(retraction) | <b>Rod Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |
|                                                                                                                                                                                                                                                                                                      | <b>Series Code</b><br>XCHLS:standard type<br>XCHLSL:symmetric type |                                    |   |                                                        |               |                                                                                                                                                                                                                                                                                  |                                                  |
| <b>Specifications</b>                                                                                                                                                                                                                                                                                |                                                                    |                                    |   |                                                        |               |                                                                                                                                                                                                                                                                                  |                                                  |
| <ul style="list-style-type: none"> <li>Type:double-rod type,roller guide rail</li> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.2MPa</li> <li>Operating Pressure Range:0.15-0.7MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Piston Speed:50-500mm/s</li> </ul> |                                                                    |                                    |   |                                                        |               |                                                                                                                                                                                                                                                                                  |                                                  |

## XCHLF Series Precision Air Slide Table

| Product Images                                                                                                                                                                                                                                                                    | XCHLF                                              | 20                                 | - | 30                                                     | S             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------|---|--------------------------------------------------------|---------------|
|                                                                                                                                                                                                | <b>Series Code</b><br>XCHLF:roller guide rail type | <b>Bore(mm)</b><br>6,8,12,16,20,25 |   | <b>Stroke(mm)</b><br>10,20,30,40,50,<br>75,100,125,150 | S:with magnet |
| <b>Specifications</b>                                                                                                                                                                                                                                                             |                                                    |                                    |   |                                                        |               |
| <ul style="list-style-type: none"> <li>Type:ultrathin type</li> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.2MPa</li> <li>Operating Pressure Range:0.15-0.7MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Piston Speed:50-500mm/s</li> </ul> |                                                    |                                    |   |                                                        |               |

## CY1 Series Magnetically Coupled Rodless Cylinder

| Product Images                                                                                                                                                                                                                                                                            | CY1                                                                     | G                                          | 25                                                       |                                                                                              | - | 300                                                                                                                           | B |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                                                                                                                                        | <b>Series Code</b><br>CY1S:slide bearing<br>CY1L:ball bearing           | <b>Bore(mm)</b><br>6,10,15,20,<br>25,32,40 | <b>Port Thread</b><br>Unmarked:M or Rc<br>TN:NPT<br>TF:G | <b>Stroke(mm)</b><br>50,100,150,200,<br>250,300,350,400,<br>450,500,600,700,<br>800,900,1000 |   | <b>Adjustment Type</b><br>Unmarked:with adjusting bolt<br>B:with 2 shock absorbers<br>BS:with 1 shock absorbers(on port side) |   |
|                                                                                                                                                                                                                                                                                           | <b>Piping Mounting</b><br>Unmarked:both sides<br>G:centralized mounting |                                            |                                                          |                                                                                              |   |                                                                                                                               |   |
| <b>Specifications</b>                                                                                                                                                                                                                                                                     |                                                                         |                                            |                                                          |                                                                                              |   |                                                                                                                               |   |
| <ul style="list-style-type: none"> <li>Slider Type:ball bushing bearing</li> <li>Withstand Pressure:1.05MPa</li> <li>Operating Pressure Range:0.18-0.7MPa</li> <li>Temperature Requirement:10~60°C(unfrozen)</li> <li>Piston Speed:50-400mm/s</li> <li>Holding Power:19.6-922N</li> </ul> |                                                                         |                                            |                                                          |                                                                                              |   |                                                                                                                               |   |

## CY3 Series Magnetically Coupled Rodless Cylinder

| Product Images                                                                                                                                                                                                                                 | CY3                                                                                 | 25                                               | -                                                         | TN                                                                                           | 300                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------|--|
|                                                                                                                                                             | <b>Series Code</b><br>CY3B:ball bearing,basic type<br>CY3R:ball bearing,long stroke | <b>Bore(mm)</b><br>6,10,15,20,25,<br>32,40,50,63 | <b>Port Thread</b><br>Unmarked:M5 or Rc<br>TN:NPT<br>TF:G | <b>Stroke(mm)</b><br>50,100,150,200,<br>250,300,350,400,<br>450,500,600,700,<br>800,900,1000 | <b>Switch Rail</b><br>Unmarked:with<br>N:without |  |
| <b>Specifications</b>                                                                                                                                                                                                                          |                                                                                     |                                                  |                                                           |                                                                                              |                                                  |  |
| <ul style="list-style-type: none"> <li>Type:magnetically coupled cylinder</li> <li>Max Withstand Pressure:1.05MPa</li> <li>Max Operating Pressure:0.7MPa</li> <li>Temperature Requirement:-10~60°C</li> <li>Piston Speed:50-500mm/s</li> </ul> |                                                                                     |                                                  |                                                           |                                                                                              |                                                  |  |

## XCRMS Series Magnetically Coupled Rodless Cylinder

| Product Images                                                                                                                                                                                                                             | XCRMS              | F                                                             | 20                                   | -                                                                                                | 300                                                        | LB                                           |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------|--|
|                                                                                                                                                         | <b>Series Code</b> | <b>Type</b><br>Unmarked:standard type<br>P:P type<br>F:F type | <b>Bore(mm)</b><br>10,16,20,25,32,40 | <b>Stroke(mm)</b><br>50,100,150,200,<br>250,300,350,400,<br>450,500,600,700,<br>750,800,900,1000 | <b>Mounting Type</b><br>LB:foot bracket<br>FA:above flange | <b>Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |  |
| <b>Specifications</b>                                                                                                                                                                                                                      |                    |                                                               |                                      |                                                                                                  |                                                            |                                              |  |
| <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.2MPa</li> <li>Operating Pressure Range:0.15-0.7MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:50-400mm/s</li> </ul> |                    |                                                               |                                      |                                                                                                  |                                                            |                                              |  |

## XCRMT Series Magnetically Coupled Rodless Cylinder

| Product Images                                                                                                                                                                                                                      | XCRMT                                                                         | 20                                       | -                                                                                                | 100           | S                                                                                  | A                                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|----------------------------------------------|--|
|                                                                                                                                                | <b>Series Code</b><br>XCRMT:guide rod type<br>XCRMTL:precision guide rod type | <b>Bore(mm)</b><br>10,16,20,<br>25,32,40 | <b>Stroke(mm)</b><br>50,100,150,200,<br>250,300,350,400,<br>450,500,600,700,<br>750,800,900,1000 | S:with magnet | <b>Adjustment Type</b><br>Unmarked:with adjusting bolt<br>A:with 2 shock absorbers | <b>Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |  |
| <b>Specifications</b>                                                                                                                                                                                                               |                                                                               |                                          |                                                                                                  |               |                                                                                    |                                              |  |
| <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.2MPa</li> <li>Max Operating Pressure:0.7MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:50-400mm/s</li> </ul> |                                                                               |                                          |                                                                                                  |               |                                                                                    |                                              |  |

## XCRMH Series Magnetically Coupled Rodless Cylinder

| Product Images                                                                                                                                                                                                                      | XCRMH                                                | 20                             | -                                                                                   | 200           | S                                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|---------------|----------------------------------------------|--|
|                                                                                                                                                | <b>Series Code</b><br>XCRMH:precision guide rod type | <b>Bore(mm)</b><br>10,16,20,25 | <b>Stroke(mm)</b><br>50,100,150,200,250,<br>300,350,400,450,500,<br>600,700,750,800 | S:with magnet | <b>Thread</b><br>Unmarked:PT<br>T:NPT<br>G:G |  |
| <b>Specifications</b>                                                                                                                                                                                                               |                                                      |                                |                                                                                     |               |                                              |  |
| <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Withstand Pressure:1.2MPa</li> <li>Max Operating Pressure:0.7MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Piston Speed:50-400mm/s</li> </ul> |                                                      |                                |                                                                                     |               |                                              |  |

## CRA1 Series Rotary Cylinder

| Product Images                                                                                                                                                                                                                                                                              | CRA1                                                      | B                                                                   | W                                                                                                                                                                                                                                     | 50                              | -                                                                | 90                                                   | C |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------|------------------------------------------------------|---|
|                                                                                                                                                                                                            | Series Code<br>CRA1: without magnet<br>CDRA1: with magnet | Mounting Type<br>L: foot bracket<br>B: basic type<br>F: flange type | Rod Type<br>S: single rod<br>W: double rod<br>X: single rod with four chamfers<br>Y: double rod key<br>Z: double rod with four chamfers<br>T: single round rod<br>J: double rod (round rod with four chamfers)<br>K: double round rod | Bore(mm)<br>30, 50, 63, 80, 100 | Rotation Angle<br>90: 90°<br>180: 180°<br>100: 100°<br>190: 190° | Cushioning<br>Unmarked: without<br>C: air cushioning |   |
| Specifications                                                                                                                                                                                                                                                                              |                                                           |                                                                     |                                                                                                                                                                                                                                       |                                 |                                                                  |                                                      |   |
| <ul style="list-style-type: none"> <li>Type: pinion and rack type</li> <li>Acting Pattern: double-acting</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Min Operating Pressure: 0.1MPa</li> <li>Temperature Requirement: 0~60°C (unfrozen)</li> <li>Holding Torques: 1.9~74N·m</li> </ul> |                                                           |                                                                     |                                                                                                                                                                                                                                       |                                 |                                                                  |                                                      |   |

## MRH Series Rotary Clamping Cylinder

| Product Images                                                                                                                                                                                                                                                                | MRH         | Q                                                        | 10                         | D                                                                                                            | -                                    | 180                         | S |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|---|
|                                                                                                                                                                                             | Series Code | Gripper Type<br>Q: parallel opening/closing (2 grippers) | Bore(mm)<br>10, 16, 20, 25 | Acting Pattern<br>D: double-acting<br>S: single-acting (normally open)<br>C: single-acting (normally closed) | Rotary Angle<br>90: 90°<br>180: 180° | Vane Type<br>S: single-vane |   |
| Specifications                                                                                                                                                                                                                                                                |             |                                                          |                            |                                                                                                              |                                      |                             |   |
| <ul style="list-style-type: none"> <li>Type: Rotary Clamp Cylinder</li> <li>Accuracy: ±0.01mm</li> <li>Rotary Angle Range: 90°±10°, 180°±10°</li> <li>Max Use Frequency: 180c.p.m</li> <li>Max Operating Pressure: 0.7MPa</li> <li>Temperature Requirement: 5~60°C</li> </ul> |             |                                                          |                            |                                                                                                              |                                      |                             |   |

## CRQB Series Compact Rotary Cylinder

| Product Images                                                                                                                                                                                                                                                                 | CRQB                                                      | W                                          | 20                             | □                                                                 | -                                      | 90 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|--------------------------------|-------------------------------------------------------------------|----------------------------------------|----|
|                                                                                                                                                                                             | Series Code<br>CRQB: without magnet<br>CDRQB: with magnet | Rod Type<br>W: double rod<br>S: single rod | Bore(mm)<br>10, 15, 20, 30, 40 | Port Thread<br>Unmarked: M5 or Rc<br>TF: G<br>TN: NPT<br>TT: NPTF | Rotation Angle<br>90: 90°<br>180: 180° |    |
| Specifications                                                                                                                                                                                                                                                                 |                                                           |                                            |                                |                                                                   |                                        |    |
| <ul style="list-style-type: none"> <li>Type: rack type</li> <li>Acting Pattern: double-acting</li> <li>Max Operating Pressure: 7MPa or 9.9MPa</li> <li>Min Operating Pressure: 1.5MPa</li> <li>Temperature Requirement: 0~60°C</li> <li>Angle Adjustable Range: ±5°</li> </ul> |                                                           |                                            |                                |                                                                   |                                        |    |

## MSQ Series Rotary Cylinder

| Product Images                                                                                                                                                                                                         | MSQ                                                          | 10                                   | A                                                                     | □                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|---------------------------------------------|
|                                                                                                                                     | Series Code<br>MSQA: high-precision type<br>MSQB: basic type | Bore(mm)<br>10, 20, 30, 70, 100, 200 | Option<br>A: with adjusting bolt<br>R: with hydraulic shock absorbers | Port Location<br>Unmarked: side<br>E: front |
| Specifications                                                                                                                                                                                                         |                                                              |                                      |                                                                       |                                             |
| <ul style="list-style-type: none"> <li>Type: pinion and rack type</li> <li>Operating Pressure Range: 0.1~0.7MPa</li> <li>Temperature Requirement: 0~60°C (unfrozen)</li> <li>Angle Adjustable Range: 0~190°</li> </ul> |                                                              |                                      |                                                                       |                                             |

## XCHRQ Series Rotary Cylinder

| Product Images                                                                                                                                                                                                                                                        | XCHRQ                                                         | 10                                                   | A                                                                                      | □                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------|
|                                                                                                                                                                                    | Series Code<br>XCHRQ: high-precision type<br>MSQB: basic type | Bore(mm)<br>2, 3, 7, 10, 20, 30,<br>50, 70, 100, 200 | Option<br>Unmarked: with fixed shock absorbers<br>A: with oil pressure shock absorbers | Port Location<br>Unmarked: PT<br>G: G<br>T: NPT |
| Specifications                                                                                                                                                                                                                                                        |                                                               |                                                      |                                                                                        |                                                 |
| <ul style="list-style-type: none"> <li>Type: double piston, pinion and rack type</li> <li>Max Operating Pressure: 0.7MPa</li> <li>Withstand Pressure: 1.2MPa</li> <li>Temperature Requirement: -20~70°C (unfrozen)</li> <li>Angle Adjustable Range: 0~190°</li> </ul> |                                                               |                                                      |                                                                                        |                                                 |

## CRB2 Series Rotary Cylinder

| Product Images                                                                                                                                                                                    | CRB2                                                  | B                                                | W                                                                  | U                      | 20                                                             | -                                             | 180                                                 | S | □ |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|------------------------|----------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|---|---|
|                                                                                                               | Series Code<br>CRB2: basic type<br>CDRB2: with magnet | Mounting Type<br>B: basic type<br>F: flange type | Angle Adjuster<br>Unmarked: without<br>U: with angle adjuster unit | Bore(mm)<br>20, 30, 40 | Rotary Angle<br>90: 90°<br>100: 100°<br>180: 180°<br>270: 270° | Vane Type<br>S: single-vane<br>D: double-vane | Port Position<br>Unmarked: side<br>E: shaft surface |   |   |
| Specifications                                                                                                                                                                                    |                                                       |                                                  |                                                                    |                        |                                                                |                                               |                                                     |   |   |
| <ul style="list-style-type: none"> <li>Type: vane type</li> <li>Operating Pressure Range: 0.15~1.0MPa</li> <li>Temperature Requirement: 5~60°C</li> <li>Angle Adjustable Range: 0~240°</li> </ul> |                                                       |                                                  |                                                                    |                        |                                                                |                                               |                                                     |   |   |

## MK Series Rotary Clamping Cylinder

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                         | MK          | B                                             | 20                                            | -                                     | 10                                      | R                            | A |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|---|
|                                                                                                                                                                                                                                                                                                                                                                   | Series Code | Mounting Type<br>B: through hole<br>F: flange | Bore(mm)<br>12, 16, 20, 25,<br>32, 40, 50, 63 | Clamping Stroke(mm)<br>10, 20, 30, 50 | Rotary Direction<br>L: left<br>R: right | Option<br>A: with rotary arm |   |
| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                               |                                               |                                       |                                         |                              |   |
| <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Rotary Angle Range: 90°±10°</li> <li>Rotary Stroke(mm): 7.5, 9.5, 15, 19</li> <li>Holding Power(N): 40, 75, 100, 185, 300, 525, 825, 1400</li> <li>Withstand Pressure: 1.5MPa</li> <li>Max Operating Pressure: 1.0MPa</li> <li>Temperature Requirement: -10~70°C (without magnetic sensor), -10~60°C (with magnetic sensor)</li> <li>Piston Speed: 50~200mm/s</li> </ul> |             |                                               |                                               |                                       |                                         |                              |   |

## XCACK Series Rotary Clamping Cylinder

| Product Images                                                                                                                                                                                                                                  | XCACK                                                                | L                                                                               | 25                             | -                                    | 90                                       | T |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------|--------------------------------------|------------------------------------------|---|
|                                                                                                                                                            | Series Code<br>XCACK: basic type<br>XCACKD: both-side clamping plate | Rotary Direction<br>L: press down and turn left<br>R: press down and turn right | Bore(mm)<br>25, 32, 40, 50, 63 | Rotary Angle<br>90: 90°<br>180: 180° | Thread<br>Unmarked: PT<br>T: NPT<br>G: G |   |
| Specifications                                                                                                                                                                                                                                  |                                                                      |                                                                                 |                                |                                      |                                          |   |
| <ul style="list-style-type: none"> <li>Acting Pattern: double-acting</li> <li>Operating Pressure Range: 0.15~1.5MPa</li> <li>Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -20~80°C</li> <li>Piston Speed: 50~200mm/s</li> </ul> |                                                                      |                                                                                 |                                |                                      |                                          |   |

## XCQCK Series Rotary Clamping Cylinder

| Product Images                                                                                                                                                                                                                                                                                                           | XCQCK       | L                                                 | 32                                      | - | 10 | S             | M                                  | FB                                                                                                     | G                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|-----------------------------------------|---|----|---------------|------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|
|                                                                                                                                                                                                                                         | Series Code | Rotary Direction<br>L: turn left<br>R: turn right | Bore(mm)<br>12,16,20,25,<br>32,40,50,63 |   |    | S:with magnet |                                    | Mounting Type<br>FB:back flange                                                                        | Thread<br>Unmarked:PT<br>T:NPT<br>G:G |
|                                                                                                                                                                                                                                                                                                                          |             |                                                   |                                         |   |    |               | Clamping Stroke(mm)<br>10,20,30,50 | Rod End Shape<br>Unmarked:taper type(with clamp arm)<br>M:across flat position type(without clamp arm) |                                       |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Rotary Angle:90°</li> <li>Accuracy:±2°</li> <li>Rotary Stroke(mm):7.5,9.5,15,19</li> </ul> |             |                                                   |                                         |   |    |               |                                    |                                                                                                        |                                       |

## RSQ Series Stopper Cylinder

| Product Images                                                                                                                                            | RSQ                                                         | B                                 | 20                                                                                                        | - | 15 | D                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                         | Series Code<br>RSQ:without magnet<br>RSDQ:with magnet       | Bore(mm)<br>12,16,20,<br>32,40,50 | Acting Pattern<br>D:double-acting<br>B:double-acting(built-in spring)<br>T:single-acting(spring push-out) |   |    | Rod End Shape<br>Unmarked:round type<br>F:round type(with internal thread)<br>K:chamfered type<br>G: chamfered type(with internal thread)<br>R:roller type<br>L:lever type<br>B:lever type(energy absorbing adjustable deformation)<br>C:lever type with release cap(energy absorbing adjustable deformation)<br>D:lever type with lock(energy absorbing adjustable deformation)<br>E:lever type with release cap&lock(energy absorbing adjustable deformation) |  |
|                                                                                                                                                           | Mounting Type<br>B: through hole<br>A: both ends screw hole | Stroke(mm)<br>10,15,20,25,30      |                                                                                                           |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:1.0MPa</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> </ul> |                                                             |                                   |                                                                                                           |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

## RSA Series Stopper Cylinder

| Product Images                                                                                                                                                                                                                                                         | RSA         | 50                   | -                   | 30                                                                                                        | D | L                                            | C                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------|---|----------------------------------------------|---------------------------------------------|
|                                                                                                                                                                                     | Series Code | Bore(mm)<br>50,63,80 | Stroke(mm)<br>30,40 | Acting Pattern<br>D:double-acting<br>B:double-acting(built-in spring)<br>T:single-acting(spring push-out) |   | Roller Material<br>L:resin<br>M:roller steel | Option<br>D:with release cap<br>C:with lock |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>RSQ Series Stopper Cylinder Fixed Mounting Height varies the amount of resistance of the built-in hydraulic buffer by rotating the adjustment dial,has the same specifications as RS1H Series.</li> </ul> |             |                      |                     |                                                                                                           |   |                                              |                                             |

## RS2H Series Stopper Cylinder

| Product Images                                                                                                                                                                                                                                                             | RS2H        | 50                   | -                   | 30                                                                                                        | A | D                                            | L | C                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------|---|----------------------------------------------|---|---------------------------------------------------------------------------------------|
|                                                                                                                                                                                         | Series Code | Bore(mm)<br>50,63,80 | Stroke(mm)<br>30,40 | Piping Direction<br>Unmarked:flange side<br>A:axial direction                                             |   | Roller Material<br>L:resin<br>M:roller steel |   | Option<br>D:with lock mechanism<br>C:with cancel cap<br>S:with lever detection switch |
|                                                                                                                                                                                                                                                                            |             |                      |                     | Acting Pattern<br>D:double-acting<br>B:double-acting(built-in spring)<br>T:single-acting(spring push-out) |   |                                              |   |                                                                                       |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Type:heavy load type</li> <li>Rod End Shape:lever roller(built-in buffer)</li> <li>Max Operating Pressure:1.0MPa</li> <li>Temperature Requirement:-10~60°C(unfrozen)</li> <li>Mounting Type:flange</li> </ul> |             |                      |                     |                                                                                                           |   |                                              |   |                                                                                       |

## XCTWH/XCTWM Series Stopper Cylinder

| Product Images                                                                                                                                                                                                              | XCTWH                                                                                                                                                                                                                     | 50                                   | -                   | 30            | S | K                                                                                                           | F | G                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------|---------------|---|-------------------------------------------------------------------------------------------------------------|---|---------------------------------------|
|                                                                                                                                          | Series Code<br>XCTWH:double-acting<br>XCTDH:double-acting&built-in spring<br>XCTTH:single-acting(spring pull into)<br>XCTWM:double-acting<br>XCTDM:double-acting&built-in spring<br>XCTTM:single-acting(spring pull into) | Bore(mm)<br>20,25,32,40,<br>50,63,80 | Stroke(mm)<br>30,40 | S:with magnet |   | Option<br>F:with self-locking                                                                               |   | Thread<br>Unmarked:PT<br>T:NPT<br>G:G |
|                                                                                                                                                                                                                             |                                                                                                                                                                                                                           |                                      |                     |               |   | Stop Type<br>L:lever roller(non-adjustable hydraulic buffer)<br>K:lever roller(adjustable hydraulic buffer) |   |                                       |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:1.5MPa</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Mounting Type:flange</li> </ul> |                                                                                                                                                                                                                           |                                      |                     |               |   |                                                                                                             |   |                                       |

## XCTWQ/XCTWQ Series Stopper Cylinder

| Product Images                                                                                                                                                                                                              | XCTWQ                                                                                                 | 50                         | -                            | 20            | S | K                                                                                               | F | - | G                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|---------------|---|-------------------------------------------------------------------------------------------------|---|---|---------------------------------------|
|                                                                                                                                         | Series Code<br>XCTWQ:double-acting&height fixed<br>XCTTQ:single-acting(spring pull into)&height fixed | Bore(mm)<br>20,25,32,40,50 | Stroke(mm)<br>10,15,20,25,30 | S:with magnet |   | Option<br>F:with self-locking                                                                   |   |   | Thread<br>Unmarked:PT<br>T:NPT<br>G:G |
|                                                                                                                                                                                                                             |                                                                                                       |                            |                              |               |   | Rod End Shape<br>C:terete<br>B:flat column<br>R:roller<br>K:lever roller(with hydraulic buffer) |   |   |                                       |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Max Operating Pressure:1.5MPa</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Temperature Requirement:-20~70°C</li> <li>Mounting Type:flange</li> </ul> |                                                                                                       |                            |                              |               |   |                                                                                                 |   |   |                                       |

## CA2 Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                  | CA2                                                   | L                                                                                                                                              | F                                                      | 80                                                                                                      | - | 100 | J                                                                                                            | N |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---|-----|--------------------------------------------------------------------------------------------------------------|---|
|                                                                                                                                                            | Series Code<br>CA2:without magnet<br>CDA2:with magnet | Mounting Type<br>B:basic type<br>L:axial foot<br>F:rod side flange<br>G:head flange<br>C:single clevis<br>D:double clevis<br>T:center trunnion | Bore(mm)<br>40,50,63,<br>80,100                        | Stroke(mm)<br>25,50,75,100,<br>125,150,175,<br>200,250,300,350,<br>400,450,500,600,<br>700,800,900,1000 |   |     | Option<br>Unmarked:both side air cushioning<br>N:without air cushioning                                      |   |
|                                                                                                                                                                                                                                                 |                                                       |                                                                                                                                                | Cylinder Material<br>Unmarked:aluminum alloy<br>F:iron |                                                                                                         |   |     | Option<br>Unmarked:without<br>J:with nylon protective cover<br>K:with heat-resistant canvas protective cover |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operating Pressure Range:0.05~1.0MPa</li> <li>Temperature Requirement:-10~70°C(without magnetic sensor),-10~60°C(with magnetic sensor)</li> <li>Piston Speed:50~500mm/s</li> </ul> |                                                       |                                                                                                                                                |                                                        |                                                                                                         |   |     |                                                                                                              |   |

## MBB Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                                  | MB                                                  | B                                                                                                                                         | 32                                     |                                              | -                                                                                                              | 50 | J                                                                           | N |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------|---|
|                                                                                                                                                                            | Series Code<br>MB:without magnet<br>MDB:with magnet | Mounting Type<br>B:basic type<br>C:single clevis<br>D:double clevis<br>F:rod flange<br>G:head flange<br>L:axial foot<br>T:center trunnion | Bore(mm)<br>32,40,50,63,<br>80,100,125 | Port Thread<br>Unmarked:Rc<br>TN:NPT<br>TF:G | Stroke(mm)<br>25,50,75,80,100,<br>125,150,160,175,<br>200,250,300,350,<br>400,450,500,600,<br>700,800,900,1000 |    | Option<br>Unmarked:air cushioning<br>N:rubber cushioning                    |   |
|                                                                                                                                                                                                                                                                 |                                                     |                                                                                                                                           |                                        |                                              |                                                                                                                |    | Option<br>J:nylon tarpaulin rod boot<br>K:heat resistant tarpaulin rod boot |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.1~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~80°C</li> <li>Piston Speed:30~800mm/s</li> </ul> |                                                     |                                                                                                                                           |                                        |                                              |                                                                                                                |    |                                                                             |   |

## XCSC Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                                    | XCSC                                                                                                                    | 50                                 | -                                                                                                       | 50                                                    | -                                                                | 10                                                                  | S                                     | N             | CA | □ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|---------------|----|---|
|                                                                                                                                                                                  | Series Code<br>XCSC:double-acting<br>XCSCD:double-acting&double-rod<br>XCSCJ:double-acting&double-rod&stroke adjustable | Bore(mm)<br>32,40,50,<br>63,80,100 | Stroke(mm)<br>25,50,75,100,125,<br>150,175,200,250,<br>300,350,400,450,<br>500,600,700,800,<br>900,1000 | Adjustable<br>Stroke(mm)<br>10,20,30,40,<br>50,75,100 | Seal Material<br>Unmarked:TPU<br>N:NBR<br>H:FKM(fluoroelastomer) | Mounting Type<br>Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB<br>TC | Thread<br>Unmarked:PT<br>T:NPT<br>G:G | S:with magnet |    |   |
| Specifications                                                                                                                                                                                                                                                    |                                                                                                                         |                                    |                                                                                                         |                                                       |                                                                  |                                                                     |                                       |               |    |   |
| <ul style="list-style-type: none"> <li>Type:with lever</li> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.1~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~80℃</li> <li>Piston Speed:30~800mm/s</li> </ul> |                                                                                                                         |                                    |                                                                                                         |                                                       |                                                                  |                                                                     |                                       |               |    |   |

## XCSCA Series Large Bore Standard Cylinder

| Product Images                                                                                                                                                                                                                            | XCSCA                                                                                                                      | 200                             | -                                                                                                              | 500                                                                                          | -             | 50                                                                  | S | CA |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|---|----|
|                                                                                                                                                          | Series Code<br>XCSCA:double-acting<br>XCSCAD:double-acting&double-rod<br>XCSCAJ:double-acting&double-rod&stroke adjustable | Bore(mm)<br>125,160,<br>200,250 | Stroke(mm)<br>25,50,75,80,100,<br>125,150,160,175,<br>200,250,300,350,<br>400,450,500,600,<br>700,800,900,1000 | Adjustable<br>Stroke(mm)<br>25,50,75,100,125,<br>150,175,200,250,<br>300,350,400,450,<br>500 | S:with magnet | Mounting Type<br>Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB<br>TC |   |    |
| Specifications                                                                                                                                                                                                                            |                                                                                                                            |                                 |                                                                                                                |                                                                                              |               |                                                                     |   |    |
| <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70℃</li> <li>Piston Speed:30~500mm/s</li> </ul> |                                                                                                                            |                                 |                                                                                                                |                                                                                              |               |                                                                     |   |    |

## XC SCT Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                                        | XC SCT                                      | 50                                 | -                                                                              | 50                                                               | -                                                                | 50                                    | S             | N | □ |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|---------------|---|---|
|                                                                                                                                                                                    | Series Code<br>Double-acting&multi-position | Bore(mm)<br>32,40,50,<br>63,80,100 | Stroke(mm)<br>25,50,75,100,125,<br>150,175,200,250,<br>300,350,400,450,<br>500 | Adjustable<br>Stroke(mm)<br>25,50,75,100,<br>125,150,175,<br>200 | Seal Material<br>Unmarked:TPU<br>N:NBR<br>H:FKM(fluoroelastomer) | Mounting Type<br>Unmarked:basic<br>LB | S:with magnet |   |   |
| Specifications                                                                                                                                                                                                                                                        |                                             |                                    |                                                                                |                                                                  |                                                                  |                                       |               |   |   |
| <ul style="list-style-type: none"> <li>Type:multi-position</li> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.1~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~80℃</li> <li>Piston Speed:30~800mm/s</li> </ul> |                                             |                                    |                                                                                |                                                                  |                                                                  |                                       |               |   |   |

## XC SU Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                                       | XC SU                                                                                                                      | 50                                 | -                                                                                                       | 50                                                    | -                                                                | 10                                                                  | S             | N | FA |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|---------------|---|----|
|                                                                                                                                                                                   | Series Code<br>XC SU:double-acting<br>XC SUD:double-acting&double-rod<br>XC SUJ:double-acting&double-rod&stroke adjustable | Bore(mm)<br>32,40,50,<br>63,80,100 | Stroke(mm)<br>25,50,75,100,125,<br>150,175,200,250,<br>300,350,400,450,<br>500,600,700,800,<br>900,1000 | Adjustable<br>Stroke(mm)<br>10,20,30,40,<br>50,75,100 | Seal Material<br>Unmarked:TPU<br>N:NBR<br>H:FKM(fluoroelastomer) | Mounting Type<br>Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB<br>TC | S:with magnet |   |    |
| Specifications                                                                                                                                                                                                                                                       |                                                                                                                            |                                    |                                                                                                         |                                                       |                                                                  |                                                                     |               |   |    |
| <ul style="list-style-type: none"> <li>Type:without lever</li> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.1~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~80℃</li> <li>Piston Speed:30~800mm/s</li> </ul> |                                                                                                                            |                                    |                                                                                                         |                                                       |                                                                  |                                                                     |               |   |    |

## XCSI Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                                                                  | XCSI                                                                                                                      | 160                                            | -                                                                                                              | 50                                                    | -             | 20                                                                               | S | FA |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|----------------------------------------------------------------------------------|---|----|
|                                                                                                                                                                                                              | Series Code<br>XCSI:double acting<br>XC SID:double acting&double rod<br>XC SIJ:double acting&double rod&stroke adjustable | Bore(mm)<br>32,40,50,63,80,<br>100,125,160,200 | Stroke(mm)<br>25,50,75,80,100,<br>125,150,160,175,<br>200,250,300,350,<br>400,450,500,600,<br>700,800,900,1000 | Adjustable<br>Stroke(mm)<br>10,20,30,40,<br>50,75,100 | S:with magnet | Mounting Type<br>Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB<br>CR<br>FTC<br>TC |   |    |
| Specifications                                                                                                                                                                                                                                                                                  |                                                                                                                           |                                                |                                                                                                                |                                                       |               |                                                                                  |   |    |
| <ul style="list-style-type: none"> <li>Type:without lever</li> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.1~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~80℃</li> <li>Piston Speed:30~800mm/s</li> <li>Standard:ISO15552</li> </ul> |                                                                                                                           |                                                |                                                                                                                |                                                       |               |                                                                                  |   |    |

## XC SE Series Standard Cylinder

| Product Images                                                                                                                                                                                                                                                                                   | XC SE                                                                                                                      | 80                                     | -                                                                                                       | 50                                                    | -             | 20                                                                               | S | FA |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|----------------------------------------------------------------------------------|---|----|
|                                                                                                                                                                                                               | Series Code<br>XC SE:double-acting<br>XC SED:double-acting&double rod<br>XC SEJ:double-acting&double rod&stroke adjustable | Bore(mm)<br>32,40,50,63,<br>80,100,125 | Stroke(mm)<br>25,50,75,100,125,<br>150,175,200,250,<br>300,350,400,450,<br>500,600,700,800,<br>900,1000 | Adjustable<br>Stroke(mm)<br>10,20,30,40,<br>50,75,100 | S:with magnet | Mounting Type<br>Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB<br>CR<br>FTC<br>TC |   |    |
| Specifications                                                                                                                                                                                                                                                                                   |                                                                                                                            |                                        |                                                                                                         |                                                       |               |                                                                                  |   |    |
| <ul style="list-style-type: none"> <li>Type:without lever</li> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70℃</li> <li>Piston Speed:30~800mm/s</li> <li>Standard:ISO15552</li> </ul> |                                                                                                                            |                                        |                                                                                                         |                                                       |               |                                                                                  |   |    |

## XC SAI Series Standard Cylinder

| Product Images                                                                                                                                                                                                                            | XC SAI                                                                                                                        | 80                                             | -                                                                                                       | 50                                                    | -             | 20                                                                               | S | FA |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|----------------------------------------------------------------------------------|---|----|
|                                                                                                                                                      | Series Code<br>XC SAI:double-acting<br>XC SAID:double-acting&double rod<br>XC SAIJ:double-acting&double rod&stroke adjustable | Bore(mm)<br>32,40,50,63,80,<br>100,125,160,200 | Stroke(mm)<br>25,50,75,100,125,<br>150,175,200,250,<br>300,350,400,450,<br>500,600,700,800,<br>900,1000 | Adjustable<br>Stroke(mm)<br>10,20,30,40,<br>50,75,100 | S:with magnet | Mounting Type<br>Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB<br>CR<br>FTC<br>TC |   |    |
| Specifications                                                                                                                                                                                                                            |                                                                                                                               |                                                |                                                                                                         |                                                       |               |                                                                                  |   |    |
| <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70℃</li> <li>Piston Speed:30~800mm/s</li> </ul> |                                                                                                                               |                                                |                                                                                                         |                                                       |               |                                                                                  |   |    |

## XC TSAI Series Standard Cylinder

| Product Images                                                                                                                                                                                                                            | XC TSAI                              | M                                                   | 40                                  | -                                                            | 100           | S                            | □ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|-------------------------------------|--------------------------------------------------------------|---------------|------------------------------|---|
|                                                                                                                                                      | Series Code<br>XC TSAI:double-acting | Bearing Type<br>M:brass bearing<br>L:linear bearing | Bore(mm)<br>32,40,50,<br>63,80,100, | Stroke(mm)<br>50,100,150,200,<br>250,300,350,400,<br>450,500 | S:with magnet | Thread<br>Unmarked:PT<br>G:G |   |
| Specifications                                                                                                                                                                                                                            |                                      |                                                     |                                     |                                                              |               |                              |   |
| <ul style="list-style-type: none"> <li>Acting Pattern:double-acting</li> <li>Operating Pressure Range:0.15~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70℃</li> <li>Piston Speed:30~500mm/s</li> </ul> |                                      |                                                     |                                     |                                                              |               |                              |   |

## XCSAU Series Standard Cylinder

| Product Images                                                                                                                                                                                                              |                                                                                                             | XCSAU 50 - 50 - 10 S FA □ |                    |  |                                        |  |                       |  |               |  |                                              |  |                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|--|----------------------------------------|--|-----------------------|--|---------------|--|----------------------------------------------|--|--------------------|--|
|                                                                                                                                            | Series Code                                                                                                 |                           | Bore(mm)           |  | Stroke(mm)                             |  | Adjustable Stroke(mm) |  | S:with magnet |  | Mounting Type                                |  | Thread             |  |
|                                                                                                                                                                                                                             | XCSAU:double-acting<br>XCSAUD:double-acting&double rod<br>XCSAUJ:double-acting&double rod&stroke adjustable |                           | 32,40,50,63,80,100 |  | 50,100,150,200,250,300,350,400,450,500 |  |                       |  |               |  | Unmarked:basic<br>LB<br>FA<br>FB<br>CA<br>CB |  | Unmarked:PT<br>G:G |  |
|                                                                                                                                                                                                                             |                                                                                                             |                           |                    |  |                                        |  |                       |  |               |  |                                              |  |                    |  |
| Specifications                                                                                                                                                                                                              |                                                                                                             |                           |                    |  |                                        |  |                       |  |               |  |                                              |  |                    |  |
| <div><div>• Acting Pattern:double-acting</div><div>• Operating Pressure Range:0.15~1.0MPa</div><div>• Withstand Pressure:1.5MPa</div><div>• Temperature Requirement:-20~70℃</div><div>• Piston Speed:30~800mm/s</div></div> |                                                                                                             |                           |                    |  |                                        |  |                       |  |               |  |                                              |  |                    |  |

## DM9 Series Non-contact Magnetic Switch

| DM9 Series Non-contact Magnetic Switch                                             |                           |             |                      |            |                      |             |                      |
|------------------------------------------------------------------------------------|---------------------------|-------------|----------------------|------------|----------------------|-------------|----------------------|
| Product Images                                                                     | Model                     | D-M9N       | D-M9NV               | D-M9P      | D-M9PV               | D-M9B       | D-M9BV               |
|  | Wire Direction            | Horizontal  | Vertical             | Horizontal | Vertical             | Horizontal  | Vertical             |
|                                                                                    | Type                      |             | with indicator light |            | with indicator light |             | with indicator light |
|                                                                                    | Wiring Method             | 3-wire type |                      |            |                      | 2-wire type |                      |
|                                                                                    | Output Method             | NPN         |                      | PNP        |                      |             |                      |
|                                                                                    | Wire Length               | 0.5m,3m,5m  |                      |            |                      |             |                      |
|                                                                                    | Type:Direct Mounting Type |             |                      |            |                      |             |                      |

## DF8 Series Non-contact Magnetic Switch

| DF8 Series Non-contact Magnetic Switch                                              |                           |             |          |             |
|-------------------------------------------------------------------------------------|---------------------------|-------------|----------|-------------|
| Product Images                                                                      | Model                     | D-F8N       | D-F8P    | D-F8B       |
|  | Wire Direction            | Vertical    | Vertical | Vertical    |
|                                                                                     | Wiring Method             | 3-wire type |          | 2-wire type |
|                                                                                     | Output Method             | NPN         | PNP      |             |
|                                                                                     | Wire Length               | 0.5m,3m,5m  |          |             |
|                                                                                     | Type:Direct Mounting Type |             |          |             |

## DMS Series Electronic Sensor

| DMS Series Electronic Sensor                                                        |                                                                                      |             |                                          |                                                 |                                        |                                             |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|------------------------------------------|-------------------------------------------------|----------------------------------------|---------------------------------------------|
| Product Images                                                                      | A05                                                                                  | DMS         | G                                        | □                                               | □                                      | □                                           |
|  |                                                                                      | Series Code | Cross-Section Shape                      |                                                 | Wire Length                            | Option                                      |
|                                                                                     |                                                                                      |             | G shape<br>H shape<br>E shape<br>J shape |                                                 | 020:2m<br>030:3m<br>050:5m<br>100:100m | Unmarked:standard type<br>W:IP68 waterproof |
|                                                                                     | Type                                                                                 |             |                                          | Mounting Type                                   |                                        |                                             |
|                                                                                     | Unmarked:general type<br>A05:robotics industry<br>A06:oil-resistant & flex-resistant |             |                                          | Unmarked:2-wire<br>N:NPN 3-wire<br>P:PNP 3-wire |                                        |                                             |

## EMS Series Electronic Sensor

| EMS Series Electronic Sensor                                                        |                                                                                    |     |                     |   |                                        |                                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|---------------------|---|----------------------------------------|---------------------------------------------|
| Product Images                                                                      | A05                                                                                | EMS | G                   | □ | □                                      | □                                           |
|  | Series Code                                                                        |     | Cross-Section Shape |   | Wire Length                            |                                             |
|                                                                                     | Type                                                                               |     | G shape<br>H shape  |   | 020:2m<br>030:3m<br>050:5m<br>100:100m |                                             |
|                                                                                     | Unmarked:general type<br>A05:robotics industry<br>A06:oil-resistant&flex-resistant |     | Mounting Type       |   | Option                                 |                                             |
|                                                                                     |                                                                                    |     |                     |   |                                        | Unmarked:standard type<br>W:IP68 waterproof |

## CMS Series Electronic Sensor

| CMS Series Electronic Sensor                                                         |                       |             |                                          |                 |                                        |                                                   |
|--------------------------------------------------------------------------------------|-----------------------|-------------|------------------------------------------|-----------------|----------------------------------------|---------------------------------------------------|
| Product Images                                                                       | A05                   | CMS         | G                                        | □               | □                                      | □                                                 |
|  |                       | Series Code | Cross-Section Shape                      |                 | Wire Length                            | Option                                            |
|                                                                                      |                       |             | G shape<br>H shape<br>E shape<br>J shape |                 | 020:2m<br>030:3m<br>050:5m<br>100:100m | Unmarked:standard type<br>H:high-temperature type |
|                                                                                      | Type                  |             |                                          | Mounting Type   |                                        |                                                   |
|                                                                                      | A05:robotics industry |             |                                          | Unmarked:2-wire |                                        |                                                   |

## Sensor Mounting Accessories

| Sensor Mounting Accessories                                                           |                |                     |                                                                                       |
|---------------------------------------------------------------------------------------|----------------|---------------------|---------------------------------------------------------------------------------------|
| Product Images                                                                        | F              | A20                 |  |
|  | Accessory Code | Cylinder Dimensions | Additional Code                                                                       |
|                                                                                       |                |                     |                                                                                       |

## Mounting Accessories

| Mounting Accessories                                                                  |                |                            |                                                  |                                                                                        |
|---------------------------------------------------------------------------------------|----------------|----------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------|
| Product Images                                                                        | F              | M5                         | 060                                              | □                                                                                      |
|  | Accessory Code | Thread                     | Thread Pitch                                     | Accessory Type                                                                         |
|                                                                                       |                | M3<br>M4<br>M5<br>M6<br>M8 | 050:0.5mm<br>070:0.7mm<br>080:0.8mm<br>100:1.0mm | I:I type connector<br>Y:Y type connector<br>F:floating connector<br>U:U type connector |



## XCVTG Series Integrated Solenoid Valve

| Product Images                                                                    | XCVTG 14 P25 I Q6L UL 4C2M5B1TC 12Q6 XS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Valve Width<br/>(mm)<br/>14</div> <div>Specification Code<br/>XC: company code<br/>VT: integrated solenoid valve<br/>G: G series</div> <div>Electrical Module<br/>P25: 25-pin multi-pin electrical module<br/>P44: 44-pin multi-pin electrical module<br/>O1: O-link electrical module<br/>EC: ethercat electrical module<br/>MF: multi-function electrical module<br/>CC: CC-link electrical module</div> <div>Pilot Operation<br/>I: internal pilot<br/>E: external pilot</div> <div>Air Inlet<br/>Q6: 6mm quick straight connector<br/>Q8: 8mm quick straight connector<br/>Q10: 10mm quick straight connector<br/>Q12: 12mm quick straight connector<br/>Q14: 14mm quick straight connector</div> <div>Exhaust<br/>U: Silencer<br/>G14: G1/4 Thread<br/>Position<br/>B: both ends<br/>L: left side<br/>R: right side<br/>BK: back side</div> <div>Function<br/>M2: 2-way 5-port, single control<br/>B2: 2-way 5-port, double control<br/>E3: 3-way 5-port, middle exhaust type<br/>P3: 3-way 5-port, middle pressure type<br/>C3: 3-way 5-port, middle closed type<br/>TC: 2x2-way 3-port, NC type<br/>TO: 2x2-way 3-port, NO type<br/>TB: 2x2-way 3-port, 1xNC, 1xNO type<br/>N: no valve</div> <div>Working Port<br/>C: plug<br/>Q4: 4mm quick straight connector<br/>Q6: 6mm quick straight connector<br/>Q8: 8mm quick straight connector<br/>Q4C: 4mm connector &amp; plug<br/>Q6C: 6mm connector &amp; plug<br/>Q8C: 8mm connector &amp; plug</div> <div>Pressure Zone<br/>Unmarked: no zone<br/>X: after X valve<br/>S: air source port 1<br/>U: air source port 3&amp;5<br/>G: air source port 1&amp;3&amp;5</div> <div>Position<br/>unmarked: front side<br/>BK: back side</div> </div> |

## XCVTG-S Series Single Valve/Manifold Valve

| Product Images                                                                     | XCVTG 14 P25 I Q6L UL 4C2M5B1TC 12Q6 XS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Valve Width<br/>(mm)<br/>14</div> <div>Specification Code<br/>XC: company code<br/>VT: integrated solenoid valve<br/>G: G series</div> <div>Electrical Module<br/>Unmarked: plate valve<br/>S: semi-tube valve</div> <div>Pilot Operation<br/>I: internal pilot<br/>E: external pilot</div> <div>Air Inlet<br/>Q6: 6mm quick straight connector<br/>Q8: 8mm quick straight connector<br/>Q10: 10mm quick straight connector<br/>Q12: 12mm quick straight connector<br/>Q14: 14mm quick straight connector</div> <div>Exhaust<br/>U: Silencer<br/>G14: G1/4 Thread<br/>Position<br/>B: both ends<br/>L: left side<br/>R: right side<br/>BK: back side</div> <div>Function<br/>M2: 2-way 5-port, single control<br/>B2: 2-way 5-port, double control<br/>E3: 3-way 5-port, middle exhaust type<br/>P3: 3-way 5-port, middle pressure type<br/>C3: 3-way 5-port, middle closed type<br/>TC: 2x2-way 3-port, NC type<br/>TO: 2x2-way 3-port, NO type<br/>TB: 2x2-way 3-port, 1xNC, 1xNO type<br/>N: no valve</div> <div>Working Port<br/>C: plug<br/>Q4: 4mm quick straight connector<br/>Q6: 6mm quick straight connector<br/>Q8: 8mm quick straight connector<br/>Q4C: 4mm connector &amp; plug<br/>Q6C: 6mm connector &amp; plug<br/>Q8C: 8mm connector &amp; plug</div> <div>Pressure Zone<br/>Unmarked: no zone<br/>X: after X valve<br/>S: air source port 1<br/>U: air source port 3&amp;5<br/>G: air source port 1&amp;3&amp;5</div> <div>Position<br/>unmarked: front side<br/>BK: back side</div> </div> |

## XCSV Series Valve Manifold

| Product Images                                                                      | XCSV - 2 S - 08 DC24V 1M - D □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Series Code<br/>XCSV: standard type<br/>XCSNV: energy-saving type</div> <div>Quantity<br/>2-14<br/>2-7</div> <div>Port Size<br/>M5: M5<br/>06: 1/8<br/>08: 1/4</div> <div>Voltage<br/>DC24V<br/>DC12V</div> <div>Wire Length<br/>1M, 2M, 3M, ...</div> <div>Thread<br/>Unmarked: Rc<br/>OON: NPT<br/>OOF: G<br/>OOT: NPTF</div> <div>Electric Control<br/>S: 5-port 2-way &amp; single control<br/>D: 5-port 2-way &amp; double control<br/>C: 5-port 3-way &amp; middle closed type<br/>E: 5-port 3-way &amp; middle exhaust type<br/>P: 5-port 3-way &amp; middle pressure type</div> <div>Mounting Accessories<br/>D: with DIN rail clip</div> </div> |

## 2V Series Solenoid Valve

| Product Images                                                                      | 2V 025 - 08 - AC220V □ □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Standard Diameter<br/>025: 2.5mm<br/>130: 13mm<br/>250: 25mm</div> <div>Port Size<br/>06: 1/8<br/>08: 1/4<br/>10: 3/8<br/>15: 1/2<br/>20: 3/4<br/>25: 1</div> <div>Standard Voltage<br/>AC220V<br/>DC24V<br/>AC110V<br/>AC24V<br/>DC12V</div> <div>Wiring Method<br/>Unmarked: DIN socket type<br/>I: lead-out type</div> <div>Thread<br/>Unmarked: G thread<br/>P: PT thread</div> <div>Specification Code<br/>2V: 2-port 2-way</div> </div> <div> <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: direct acting/pilot-operated</li> <li>Initial State: normally closed</li> <li>Operating Pressure Range: 0-1.0MPa</li> <li>Withstand Pressure: 1.5MPa</li> <li>Voltage Tolerance Range: AC±15%, DC±10%</li> <li>Body Material: Aluminum Alloy</li> <li>Valve Body Material: Brass</li> <li>Seals: VITON, NBR</li> </ul> </div> |

## 3V1 Series Solenoid Valve

| Product Images                                                                      | 3V 1 - 06 - AC220V - □ - □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Series Code<br/>1: Series 1</div> <div>Port Size<br/>M5: M5<br/>06: 1/8<br/>08: 1/4</div> <div>Standard Voltage<br/>AC220V<br/>DC24V<br/>AC110V<br/>AC24V<br/>DC12V</div> <div>Wiring Method<br/>Unmarked: DIN socket type<br/>I: lead-out type</div> <div>Thread<br/>Unmarked: G thread<br/>P: PT thread</div> <div>Specification Code<br/>3V: 3-port 2-way</div> </div> <div> <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: direct acting</li> <li>Operating Pressure Range: 0-0.8MPa</li> <li>Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -20~70°C</li> <li>Voltage Tolerance Range: AC±15%, DC±10%</li> <li>Flow Diameter: Φ1.2mm</li> <li>Protection Rating: IP65 (DIN40050)</li> <li>Body Material: Aluminum Alloy</li> <li>Valve Body Material: Brass</li> <li>Seals: VITON, NBR</li> </ul> </div> |

## 3V Series Solenoid Valve

| Product Images                                                                       | 3V 1 10 - 06 - W - NO - AC220V - □ - □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Series Code<br/>1: Series 100<br/>2: Series 200<br/>3: Series 300</div> <div>Port Size<br/>M5: M5<br/>06: 1/8<br/>08: 1/4<br/>10: 3/8</div> <div>Acting Pattern<br/>W: externally piloted</div> <div>Standard Voltage<br/>AC220V<br/>DC24V<br/>AC110V<br/>AC24V<br/>DC12V</div> <div>Thread<br/>Unmarked: G thread<br/>P: PT thread</div> <div>Specification Code<br/>3V: 3-port 2-way</div> <div>Electric Control<br/>10: double position &amp; single control<br/>20: double position &amp; double control</div> <div>Initial State<br/>NC: normally closed<br/>NO: normally open</div> <div>Wiring Method<br/>Unmarked: DIN socket type<br/>I: lead-out type</div> </div> <div> <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: pilot-operated</li> <li>Operating Pressure Range: 0.15-0.8MPa</li> <li>Max Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -20~70°C</li> <li>Voltage Tolerance Range: AC±15%, DC±10%</li> <li>Protection Rating: IP65 (DIN40050)</li> <li>Body Material: Aluminum Alloy</li> <li>Valve Body Material: Brass</li> <li>Seals: VITON, NBR</li> </ul> </div> |

## 5V Series Solenoid Valve

| Product Images                                                                        | 5V 1 10 - 06 - AC220V - □ - □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Series Code<br/>1: Series 100<br/>2: Series 200<br/>3: Series 300<br/>4: Series 400</div> <div>Port Size<br/>M5: M5<br/>06: 1/8<br/>08: 1/4<br/>10: 3/8<br/>15: 1/2</div> <div>Standard Voltage<br/>AC220V<br/>DC24V<br/>AC110V<br/>AC24V<br/>DC12V</div> <div>Thread<br/>Unmarked: G thread<br/>P: PT thread</div> <div>Specification Code<br/>5-port 2-way<br/>5-port 3-way</div> <div>Electric Control<br/>10: double position &amp; single control<br/>20: double position &amp; double control<br/>30C: three-position &amp; double control &amp; middle closed type<br/>30E: three-position &amp; double control &amp; middle exhaust type<br/>30P: three-position &amp; double control &amp; middle pressure type</div> <div>Wiring Method<br/>Unmarked: DIN socket type<br/>I: lead-out type</div> </div> <div> <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: pilot-operated</li> <li>Operating Pressure Range: 0.15-0.8MPa</li> <li>Max Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -20~70°C</li> <li>Voltage Tolerance Range: AC±15%, DC±10%</li> <li>Protection Rating: IP65 (DIN40050)</li> <li>Max Operating Frequency: 3 times/s, 5 times/s</li> <li>Body Material: Aluminum Alloy</li> <li>Valve Body Material: Brass</li> </ul> </div> |

## 4V Series Solenoid Valve

| Product Images                                                                        | 4V 1 10 - 06 - AC220V - □ - □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>Series Code<br/>1: Series 100<br/>2: Series 200<br/>3: Series 300<br/>4: Series 400</div> <div>Port Size<br/>M5: M5<br/>06: 1/8<br/>08: 1/4<br/>10: 3/8<br/>15: 1/2</div> <div>Standard Voltage<br/>AC220V<br/>DC24V<br/>AC110V<br/>AC24V<br/>DC12V</div> <div>Thread<br/>Unmarked: G thread<br/>P: PT thread</div> <div>Specification Code<br/>5-port 2-way<br/>5-port 3-way</div> <div>Electric Control<br/>10: double position &amp; single control<br/>20: double position &amp; double control<br/>30C: three-position &amp; double control &amp; middle closed type<br/>30E: three-position &amp; double control &amp; middle exhaust type<br/>30P: three-position &amp; double control &amp; middle pressure type</div> <div>Wiring Method<br/>Unmarked: DIN socket type<br/>I: lead-out type</div> </div> <div> <b>Specifications</b> <ul style="list-style-type: none"> <li>Acting Pattern: pilot-operated</li> <li>Operating Pressure Range: 0.15-0.8MPa</li> <li>Max Withstand Pressure: 1.5MPa</li> <li>Temperature Requirement: -20~70°C</li> <li>Voltage Tolerance Range: AC±15%, DC±10%</li> <li>Protection Rating: IP65 (DIN40050)</li> <li>Body Material: Aluminum Alloy</li> <li>Valve Body Material: Brass</li> <li>Seals: VITON, NBR</li> </ul> </div> |

## 4M Series Solenoid Valve

| Product Images                                                                                                                                                                                                                        |                                              | 4M 1 10 - 06 - AC220V - □ - □ |                                                                          |  |                                               |                                                                                                                                                                                                                                                                      |                                             |  |                                  |                                             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------|--------------------------------------------------------------------------|--|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|----------------------------------|---------------------------------------------|--|
|                                                                                                                                                      | Series Code                                  |                               | Electric Control                                                         |  | Port Size                                     |                                                                                                                                                                                                                                                                      | Standard Voltage                            |  | Thread                           |                                             |  |
|                                                                                                                                                                                                                                       | 1:Series 100<br>2:Series 200<br>3:Series 300 |                               | 10:double position& single control<br>20:double position& double control |  | M5:M5<br>06:1/8<br>08:1/4<br>10:3/8<br>15:1/2 |                                                                                                                                                                                                                                                                      | AC220V<br>DC24V<br>AC110V<br>AC24V<br>DC12V |  | Unmarked:G thread<br>P:PT thread |                                             |  |
|                                                                                                                                                                                                                                       | Specification Code                           |                               |                                                                          |  |                                               |                                                                                                                                                                                                                                                                      |                                             |  | Wiring Method                    |                                             |  |
| 5-port 2-way<br>5-port 3-way                                                                                                                                                                                                          |                                              |                               |                                                                          |  |                                               |                                                                                                                                                                                                                                                                      |                                             |  |                                  | Unmarked:DIN socket type<br>I:lead-out type |  |
| Specifications                                                                                                                                                                                                                        |                                              |                               |                                                                          |  |                                               |                                                                                                                                                                                                                                                                      |                                             |  |                                  |                                             |  |
| <ul style="list-style-type: none"><li>• Standard:NAMUR</li><li>• Acting Pattern:pilot-operated</li><li>• Operating Pressure Range:0.15-0.8MPa</li><li>• Withstand Pressure:1.2MPa</li><li>• Temperature Requirement:-20~70℃</li></ul> |                                              |                               |                                                                          |  |                                               | <ul style="list-style-type: none"><li>• Voltage Tolerance Range:AC±15%,DC±10%</li><li>• Protection Rating: IP65(DIN40050)</li><li>• Max Operating Frequency:3 times/s,5 times/s</li><li>• Body Material:Aluminum Alloy</li><li>• Valve Body Material:Brass</li></ul> |                                             |  |                                  |                                             |  |

## XCSY Series Solenoid Valve

| Product Images                                                                                                                                                                                                                                                            |  | XCSY  | 3120                                         | -                                                                                                                                                                                       | M5                                 | - | DC24V                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---|------------------------------------|
|                                                                                                                                                                                         |  | Model | Specification                                |                                                                                                                                                                                         | Port Size                          |   | Standard Voltage                   |
|                                                                                                                                                                                                                                                                           |  |       | 3120<br>3220<br>5120<br>5220<br>7120<br>7220 |                                                                                                                                                                                         | C4<br>C6<br>C8<br>M5<br>1/8<br>1/4 |   | DC12V<br>DC24V<br>AC110V<br>AC220V |
| Specifications                                                                                                                                                                                                                                                            |  |       |                                              |                                                                                                                                                                                         |                                    |   |                                    |
| <ul style="list-style-type: none"><li>Acting Pattern:pilot-operated</li><li>Operating Pressure Range:0.15~0.7MPa,0.1~0.7MPa,0.2~0.7MPa</li><li>Withstand Pressure:1.2MPa</li><li>Temperature Requirement:-10~50℃(unfrozen)</li><li>Voltage Tolerance Range:±15%</li></ul> |  |       |                                              | <ul style="list-style-type: none"><li>Protection Rating: IP65(DIN40050&amp;M8)</li><li>Body Material:Aluminum Alloy</li><li>Valve Body Material:Brass</li><li>Seals:VITON,NBR</li></ul> |                                    |   |                                    |

## VT307 Series Solenoid Valve

| Product Images                                                                                                                                                                                                         |                    | VT 307 V K - AC110V G S 1-01 □ - F |                                                                                                                                       |  |                                    |  |                                                     |  |                          |                                                                                                                    |                                       |  |                                    |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|-----------------------------------------------------|--|--------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------|--|------------------------------------|--|--|
|                                                                                                                                     | Series Code        |                                    | Pressure                                                                                                                              |  | Voltage                            |  | Wiring Method                                       |  | Port Size                |                                                                                                                    | Thread                                |  | Bracket                            |  |  |
|                                                                                                                                                                                                                        |                    |                                    | Unmarked:standard<br>K:high voltage type                                                                                              |  | AC110V<br>AC220V<br>DC24V<br>DC12V |  | G:lead method<br>D:with socket<br>DO:without socket |  | 01:1/8(6A)<br>02:1/4(8A) |                                                                                                                    | Unmarked:Rc<br>G:G<br>N:NPT<br>T:NPTF |  | Unmarked:without<br>F:with bracket |  |  |
|                                                                                                                                                                                                                        | Specification Code |                                    | Unmarked:standard<br>V:vacuum type<br>E:long-term powered type<br>Y:low power consumption type<br>W:low power consumption&vacuum type |  |                                    |  |                                                     |  | Indicator Light          |                                                                                                                    |                                       |  |                                    |  |  |
|                                                                                                                                                                                                                        |                    | V:valve<br>T:Direct piping type    |                                                                                                                                       |  |                                    |  |                                                     |  |                          | Unmarked:without<br>S:with overvoltage protection circuit<br>Z:with indicator light&overvoltage protection circuit |                                       |  |                                    |  |  |
| Specifications                                                                                                                                                                                                         |                    |                                    |                                                                                                                                       |  |                                    |  |                                                     |  |                          |                                                                                                                    |                                       |  |                                    |  |  |
| <ul style="list-style-type: none"><li>Acting Pattern:direct-acting type</li><li>Operating Pressure Range:0-0.7MPa(standard type),0-1MPa(high voltage type)</li><li>Temperature Requirement:-10~50℃(unfrozen)</li></ul> |                    |                                    |                                                                                                                                       |  |                                    |  |                                                     |  |                          |                                                                                                                    |                                       |  |                                    |  |  |

## 2W Series Fluid Control Valve

| Product Images                                                                                                                                                                                                                                                                                                                                                           | 2W                                    | 025                                                                                                       | M5                                                  | -                                                                                                                | 08                                                                        | AC110V         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------|
|                                                                                                                                                                                                                                                                                       | Specification Code<br>2W:2-port 2-way | Port Size<br>025:2.5mm<br>040:4mm<br>160:16mm<br>200:20mm<br>250:25mm<br>350:35mm<br>400:40mm<br>500:50mm | Flow Diameter<br>C4<br>C6<br>C8<br>M5<br>1/8<br>1/4 | Pipe Diameter<br>06:G1/8<br>08:G1/4<br>10:G3/8<br>15:G1/2<br>20:G3/4<br>25:G1<br>35:G1 1/4<br>40:G1 1/2<br>50:G2 | Standard Voltage<br>DC12V<br>DC24V<br>AC24V<br>AC110V<br>AC220V<br>AC380V | Specifications |
| <ul style="list-style-type: none"> <li>Acting Pattern:direct-acting or pilot-operated</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-0.7MPa</li> <li>Max Withstand Pressure:1.0MPa</li> <li>Temperature Requirement:-5~85°C(unfrozen)</li> <li>Voltage Tolerance Range:±10%</li> <li>Valve Body Material:brass</li> <li>Seals:NBR</li> </ul> |                                       |                                                                                                           |                                                     |                                                                                                                  |                                                                           |                |

## 3V Series Solenoid Valve Base

| Product Images                                                                      |  | 3V100M                                                                     | -                                                                  | 5F | -                                | □ |
|-------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--------------------------------------------------------------------|----|----------------------------------|---|
|  |  | Specification Code                                                         | Number of Positions                                                |    | Thread                           |   |
|                                                                                     |  | 3V100M:100 series base<br>3V200M:200 series base<br>3V300M:300 series base | 1F,2F,3F,4F,<br>5F,6F,7F,8F,<br>9F,10F,11F,12F,<br>13F,14F,15F,16F |    | Unmarked:G thread<br>P:PT thread |   |

## 4V Series Solenoid Valve Base

| 4V Series Solenoid Valve Base                                                       |                                                                                                      |                                                                    |    |                                  |   |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----|----------------------------------|---|
| Product Images                                                                      | 4V100M                                                                                               | -                                                                  | 5F | -                                | □ |
|  | Specification Code                                                                                   | Number of Positions                                                |    | Thread                           |   |
|                                                                                     | 4V100M:100 series base<br>4V200M:200 series base<br>4V300M:300 series base<br>4V400M:300 series base | 1F,2F,3F,4F,<br>5F,6F,7F,8F,<br>9F,10F,11F,12F,<br>13F,14F,15F,16F |    | Unmarked:G thread<br>P:PT thread |   |

## XCSY Series Solenoid Valve Base

| Product Images                                                                        |  | XCSS5Y             |  | 5                          | - | 05                                                                          | - | □                                           |
|---------------------------------------------------------------------------------------|--|--------------------|--|----------------------------|---|-----------------------------------------------------------------------------|---|---------------------------------------------|
|  |  | Specification Code |  | Manifold Series            |   | Number of Positions                                                         |   | Thread                                      |
|                                                                                       |  |                    |  | 3:XCSSY3000<br>5:XCSSY5000 |   | 01,02,03,04,<br>05,06,07,08,<br>09,10,11,12,<br>13,14,15,16,<br>17,18,19,20 |   | Unmarked:Rc<br>OON:NPT<br>OOF:G<br>OOT:NPTF |

## 4A Series Air Controlling Valve

| Product Images                                                                                                                                                                                                                             | 4A                                                                                                | - | 1 | 10                                                                                                                                                                                                                                                                                                                             | 06                                                                                                                                                                                                                   | AC220V                                                                                 | □                                                              | □                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------|
|                                                                                                                                                       | <div>Series Code</div> <div>1:Series 100<br/>2:Series 200<br/>3:Series 300<br/>4:Series 400</div> |   |   | <div>Electric Control</div> <div>10:double position&amp; single control<br/>20:double position&amp; double control<br/>30C:three-position&amp;double control&amp;middle closed type<br/>30E:three-position&amp;double control&amp;middle exhaust type<br/>30P:three-position&amp;double control&amp;middle pressure type</div> | <div>Port Size</div> <div>M5:M5<br/>06:1/8<br/>08:1/4<br/>10:3/8<br/>15:1/2</div>                                                                                                                                    | <div>Standard Voltage</div> <div>AC220V<br/>DC24V<br/>AC110V<br/>AC24V<br/>DC12V</div> | <div>Thread</div> <div>Unmarked:G thread<br/>P:PT thread</div> | <div>Wiring Method</div> <div>Unmarked:DIN socket type<br/>I:lead-out type</div> |
|                                                                                                                                                                                                                                            | <div>Specification Code</div> <div>3A/4A, 3-port 2-way</div>                                      |   |   |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                        |                                                                |                                                                                  |
| Specifications                                                                                                                                                                                                                             |                                                                                                   |   |   |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                        |                                                                |                                                                                  |
| <div>• Acting Pattern:pneumatic control</div> <div>• Operating Pressure Range:0.15~0.8MPa</div> <div>• Max Withstand Pressure:1.2MPa</div> <div>• Temperature Requirement:-20~70℃</div> <div>• Voltage Tolerance Range:AC±15%,DC±10%</div> |                                                                                                   |   |   |                                                                                                                                                                                                                                                                                                                                | <div>• Protection Rating:IP65(DIN40050)</div> <div>• Max Operating Frequency:3 times/s,5 times/s</div> <div>• Body Material:Aluminum Alloy</div> <div>• Valve Body Material:Brass</div> <div>• Seals:VITON,NBR</div> |                                                                                        |                                                                |                                                                                  |

### 3H Series Manual Valve

| Product Images                                                                    | 3H                                                                                                                                                                                        | 2                                                           | 10                                                                                                                                                                        | 08                                                        |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|  | Specification Code<br>3H:3-port 2-way                                                                                                                                                     | Series Code<br>2:200 series<br>3:300 series<br>4:400 series | Function Code<br>10:two-position                                                                                                                                          | Pipe Diameter<br>06:G1/8<br>08:G1/4<br>10:G3/8<br>15:G1/2 |
|                                                                                   | <b>Specifications</b>                                                                                                                                                                     |                                                             |                                                                                                                                                                           |                                                           |
|                                                                                   | <ul style="list-style-type: none"> <li>Acting Pattern:manually controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-0.8MPa</li> </ul> |                                                             | <ul style="list-style-type: none"> <li>Max Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |                                                           |

### 4H Series Manual Valve

| Product Images                                                                     | 4H                                                                                                                                                                                        | 2                                           | 30C                                                                                                                                                                   | 08                                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
|  | Specification Code<br>4H:manual reset<br>4HA:spring reset                                                                                                                                 | Series Code<br>2:200 series<br>3:300 series | Function Code<br>10:5-port 2-position<br>30C:5-port 3-position,center-closed type<br>30E:5-port 3-position,center-exhaust type                                        | Pipe Size<br>06:G1/8<br>08:G1/4<br>10:G3/8 |
|                                                                                    | <b>Specifications</b>                                                                                                                                                                     |                                             |                                                                                                                                                                       |                                            |
|                                                                                    | <ul style="list-style-type: none"> <li>Acting Pattern:manually controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-0.8MPa</li> </ul> |                                             | <ul style="list-style-type: none"> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |                                            |

### 3R Series Manual Valve

| Product Images                                                                      | 3R                                                                                                                                                                                        | 2                                                           | 10                                                                                                                                                                        | 08                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
|  | Specification Code<br>3R:3-port 2-way                                                                                                                                                     | Series Code<br>1:100 series<br>2:200 series<br>3:300 series | Function Code<br>10:5-port 2-position<br>30C:5-port 2-position,center-closed type<br>30E:5-port 3-position,center-exhaust type                                            | Pipe Size<br>06:G1/8<br>08:G1/4<br>10:G3/8 |
|                                                                                     | <b>Specifications</b>                                                                                                                                                                     |                                                             |                                                                                                                                                                           |                                            |
|                                                                                     | <ul style="list-style-type: none"> <li>Acting Pattern:manually controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-0.8MPa</li> </ul> |                                                             | <ul style="list-style-type: none"> <li>Max Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |                                            |

### 4R Series Manual Valve

| Product Images                                                                      | 4R                                                                                                                                                                                        | 2                                                           | 10                                                                                                                                                                        | 08                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
|  | Specification Code<br>4R:5-port 2-way                                                                                                                                                     | Series Code<br>1:100 series<br>2:200 series<br>3:300 series | Function Code<br>10:2-position                                                                                                                                            | Pipe Size<br>06:G1/8<br>08:G1/4<br>10:G3/8 |
|                                                                                     | <b>Specifications</b>                                                                                                                                                                     |                                                             |                                                                                                                                                                           |                                            |
|                                                                                     | <ul style="list-style-type: none"> <li>Acting Pattern:manually controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-0.8MPa</li> </ul> |                                                             | <ul style="list-style-type: none"> <li>Max Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |                                            |

### 4HV Series Manual Valve

| Product Images                                                                      | 4HV                                                                                                                                                                                       | 2                                                           | 30                                                            | 06                                                                                                                                                                    | S                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
|  | Specification Code<br>4HV<br>4HVL                                                                                                                                                         | Series Code<br>2:200 series<br>3:300 series<br>4:400 series | Function Code<br>10:4-port 2-position<br>30:4-port 3-position | Pipe Diameter<br>06:PT1/8<br>08:PT1/4<br>10:PT3/8<br>15:PT1/2<br>20:PT3/4                                                                                             | Mounting Type<br>Unmarked:body mounting<br>S:panel mounting |
|                                                                                     | <b>Specifications</b>                                                                                                                                                                     |                                                             |                                                               |                                                                                                                                                                       |                                                             |
|                                                                                     | <ul style="list-style-type: none"> <li>Acting Pattern:manually controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-1.0MPa</li> </ul> |                                                             |                                                               | <ul style="list-style-type: none"> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |                                                             |

### XCKG Series Check Valve

| Product Images                                                                       | XCKG                                                                                                                                                                                      | 22                                                                    | NN                                                                                                                                                                        |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Specification Code                                                                                                                                                                        | Pipe Diameter<br>11: PT1/8"<br>22: PT1/4"<br>33: PT3/8"<br>44: PT1/2" | Pipe Type<br>NN:both ends internal thread<br>NW:internal thread&external thread<br>WW:both ends external thread                                                           |
|                                                                                      | <b>Specifications</b>                                                                                                                                                                     |                                                                       |                                                                                                                                                                           |
|                                                                                      | <ul style="list-style-type: none"> <li>Acting Pattern:manually controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-1.0MPa</li> </ul> |                                                                       | <ul style="list-style-type: none"> <li>Max Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |

### 4F Series Foot Valve

| Product Images                                                                        | 4F210                                                                                                                                                                                 | 08                         | L                                                                                                                                                                     |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Specification Code<br>4F210:5-port 2-way                                                                                                                                              | Pipe Diameter<br>08:PT1/4" | Pipe Type<br>Unmarked:standard<br>L:with lock<br>F: with protective cover<br>LF:with lock&protective cover                                                            |
|                                                                                       | <b>Specifications</b>                                                                                                                                                                 |                            |                                                                                                                                                                       |
|                                                                                       | <ul style="list-style-type: none"> <li>Acting Pattern:foot controlled direct-acting type</li> <li>Initial State:normally closed</li> <li>Operating Pressure Range:0-1.0MPa</li> </ul> |                            | <ul style="list-style-type: none"> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |

### FV Series Foot Valve

| Product Images                                                                        | FV                                                                                                                                                                                                         | 320                                              |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|  | Specification Code                                                                                                                                                                                         | Way&Port<br>320:2-way 3-port<br>420:2-way 4-port |
|                                                                                       | <b>Specifications</b>                                                                                                                                                                                      |                                                  |
|                                                                                       | <ul style="list-style-type: none"> <li>Operating Pressure Range:0-0.8MPa</li> <li>Pipe Size:G1/4,G1/8</li> <li>Acting Pattern:direct-acting</li> <li>Temperature Requirement:-20~70°C(unfrozen)</li> </ul> |                                                  |

### M3 Series Mechanical Valve

| Product Images                                                                                                                                                                                                              | M3                             | PM                                                                                                                                   | 210                                                        | 06                              | R                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                            | Series Code<br>M3:3-port 2-way | Type<br>B:basic type<br>C:long handle type<br>D:short handle type<br>Y:roller arm type<br>R:roller lever type<br>L:roller lever type | Control Method<br>110:single control<br>210:single control | Pipe Size<br>06:G1/8<br>08:G1/4 | Button Color<br>R:red<br>G:green<br>B:black                                                                                        |
|                                                                                                                                                                                                                             | Specifications                 |                                                                                                                                      |                                                            |                                 |                                                                                                                                    |
| <ul style="list-style-type: none"> <li>Effective Cross-Sectional Area:2.5m<sup>2</sup>,8.0m<sup>2</sup>,9.0m<sup>2</sup>,12m<sup>2</sup></li> <li>Operating Pressure Range:0~1.0MPa</li> <li>Max Pressure:1.5MPa</li> </ul> |                                |                                                                                                                                      |                                                            |                                 | <ul style="list-style-type: none"> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |

### M5 Series Mechanical Valve

| Product Images                                                                                                                                                                                                                    | M5                             | PM                                                                                                                                   | 210                                                        | 06                              | R                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                 | Series Code<br>M5:2-way 5-port | Type<br>B:basic type<br>C:long handle type<br>D:short handle type<br>Y:roller arm type<br>R:roller lever type<br>L:roller lever type | Control Method<br>110:single control<br>210:single control | Pipe Size<br>06:G1/8<br>08:G1/4 | Button Color<br>R:red<br>G:green<br>B:black                                                                                        |
|                                                                                                                                                                                                                                   | Specifications                 |                                                                                                                                      |                                                            |                                 |                                                                                                                                    |
| <ul style="list-style-type: none"> <li>Effective Cross-Sectional Area:2.5m<sup>2</sup>,8.0m<sup>2</sup>,9.0m<sup>2</sup>,12m<sup>2</sup></li> <li>Operating Pressure Range:0~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> </ul> |                                |                                                                                                                                      |                                                            |                                 | <ul style="list-style-type: none"> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |

### CM3 Series Mechanical Valve

| Product Images                                                                                                                                                                                                   | CM3                                         | PP                                                                                                                                   | 06                                       | B                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | Series Code<br>2-way 3-port<br>2-way 5-port | Type<br>B:basic type<br>C:long handle type<br>D:short handle type<br>Y:roller arm type<br>R:roller lever type<br>L:roller lever type | Pipe Size<br>05:M5<br>06:G1/8<br>08:G1/4 | Button Color<br>R:red<br>G:green<br>B:black                                                                                        |
|                                                                                                                                                                                                                  | Specifications                              |                                                                                                                                      |                                          |                                                                                                                                    |
| <ul style="list-style-type: none"> <li>Effective Cross-Sectional Area:2.0m<sup>2</sup>,2.5m<sup>2</sup>,15m<sup>2</sup></li> <li>Operating Pressure Range:0~1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> </ul> |                                             |                                                                                                                                      |                                          | <ul style="list-style-type: none"> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul> |

### JM322 Series Mechanical Valve

| Product Images                                                                                                                                                     | JM             | 32                                 | 2                   | R                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                 | Series Code    | Specification Code<br>3-port 2-way | Pipe Size<br>2:G1/4 | Type<br>Unmarked:basic type<br>R:roller lever type<br>TB:selector button<br>EB:locking button<br>PP:flat button<br>PPL:protruding button<br>PB:round button |
|                                                                                                                                                                    | Specifications |                                    |                     |                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Operation Type:direct-acting</li> <li>Operating Pressure Range:0~0.8MPa</li> <li>Temperature Requirement:-5~60°C</li> </ul> |                |                                    |                     | <ul style="list-style-type: none"> <li>Temperature Requirement:-20~70°C(unfrozen)</li> <li>Body Material:Aluminum Alloy</li> </ul>                          |

### MOV321 Series Mechanical Valve

| Product Images                                                                                                                                                     | MOV            | 32                                 | 1                   | R                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                 | Series Code    | Specification Code<br>2-way 3-port | Pipe Size<br>1:G1/8 | Type<br>Unmarked:basic type<br>R:roller lever type<br>TB:selector button<br>EB:locking button<br>PP:flat button<br>PPL:protruding button<br>PB:round button |
|                                                                                                                                                                    | Specifications |                                    |                     |                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Operation Type:direct-acting</li> <li>Operating Pressure Range:0~0.8MPa</li> <li>Temperature Requirement:-5~60°C</li> </ul> |                |                                    |                     |                                                                                                                                                             |

### MV322 Series Mechanical Valve

| Product Images                                                                                                                                                     | MV             | 32                                 | 2                   | R                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                | Series Code    | Specification Code<br>2-way 3-port | Pipe Size<br>2:G1/4 | Type<br>Unmarked:basic type<br>R:roller lever type<br>TB:selector button<br>EB:locking button<br>PP:flat button<br>PPL:protruding button<br>PB:round button |
|                                                                                                                                                                    | Specifications |                                    |                     |                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Operation Type:direct-acting</li> <li>Operating Pressure Range:0~0.8MPa</li> <li>Temperature Requirement:-5~60°C</li> </ul> |                |                                    |                     |                                                                                                                                                             |

### MV522 Series Mechanical Valve

| Product Images                                                                                                                                                     | MV             | 52                                 | 2                   | R                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               | Series Code    | Specification Code<br>2-way 5-port | Pipe Size<br>2:G1/4 | Type<br>Unmarked:basic type<br>R:roller lever type<br>TB:selector button<br>EB:locking button<br>PP:flat button<br>PPL:protruding button<br>PB:round button |
|                                                                                                                                                                    | Specifications |                                    |                     |                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Operation Type:direct-acting</li> <li>Operating Pressure Range:0~0.8MPa</li> <li>Temperature Requirement:-5~60°C</li> </ul> |                |                                    |                     |                                                                                                                                                             |

### JMJ Series Mechanical Valve

| Product Images                                                                                                                                                     | JMJ            | 52                                 | 2                   | R                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               | Series Code    | Specification Code<br>2-way 5-port | Pipe Size<br>2:G1/4 | Type<br>Unmarked:basic type<br>R:roller lever type<br>TB:selector button<br>EB:locking button<br>PP:flat button<br>PPL:protruding button<br>PB:round button |
|                                                                                                                                                                    | Specifications |                                    |                     |                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>Operation Type:direct-acting</li> <li>Operating Pressure Range:0~0.8MPa</li> <li>Temperature Requirement:-5~60°C</li> </ul> |                |                                    |                     |                                                                                                                                                             |

### VBA Series Booster Valve

| Product Images                                                                    | VBA                                                                                                  | 40A                                                                                                                                                                                                                                                                                                | - | N                                                                       | 04                             | G                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Series Code                                                                                          | Body Size                                                                                                                                                                                                                                                                                          |   | Thread                                                                  | Pipe Size                      | Optional                                                                                                                                                                                                                                                                                  |
|                                                                                   |                                                                                                      | 10A: 1/4 standard manual operation type<br>20A: 3/8 standard manual operation type<br>40A: 1/2 standard manual operation type<br>22A: 1/8 standard pneumatic control type<br>42A: 1/2 standard pneumatic control type<br>43A: 1/2 standard & Max 1.6MPa<br>11A: 1/4 standard manual operation type |   | Unmarked: Rc<br>F: G<br>N: NPT<br>T: NPTF                               | 02: G1/4<br>03: 3/8<br>04: 1/2 | Unmarked: basic type<br>G: pressure gauge<br>N: silencer<br>S: high-efficiency silencer<br>GN: gauge&silencer<br>GS: gauge&high-efficiency silencer<br>LN: elbow silencer<br>LS: elbow high-efficiency silencer<br>GLN: gauge&elbow silencer<br>GLS: gauge&elbow high-efficiency silencer |
|                                                                                   | Specifications                                                                                       |                                                                                                                                                                                                                                                                                                    |   |                                                                         |                                |                                                                                                                                                                                                                                                                                           |
|                                                                                   | • Boost Ratio: 2 to 4 times<br>• Flow Rate(L/min): 70~1900<br>• Operating Pressure Range: 0.1~1.0MPa |                                                                                                                                                                                                                                                                                                    |   | • Max Pressure: 1.5MPa/2.4MPa/3MPa<br>• Temperature Requirement: 2~50°C |                                |                                                                                                                                                                                                                                                                                           |

### VBAT Series Air Tank

| Product Images                                                                     | VBA                                                                                                                                                       | 10                                      | A                                                 | 1 | - | S                                                                      | V                                           |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|---|---|------------------------------------------------------------------------|---------------------------------------------|
|  | Series Code                                                                                                                                               | Capacity                                | Material                                          |   |   | Optional                                                               | Optional                                    |
|                                                                                    |                                                                                                                                                           | 05: 5L<br>10: 10L<br>20: 20L<br>38: 38L | A: carbon steel(SS400)<br>S: stainless steel(SUS) |   |   | Unmarked: basic type<br>R: safety valve(1MPa)<br>S: safety valve(2MPa) | Unmarked: basic type<br>V: condensate valve |
|                                                                                    | Specifications                                                                                                                                            |                                         |                                                   |   |   |                                                                        |                                             |
|                                                                                    | • Air Tank Capacity: 5L, 10L, 20, 38L<br>• Max Pressure: 1.0MPa, 2.0MPa<br>• Temperature Requirement: 0~75°C<br>• Material: carbon steel, stainless steel |                                         |                                                   |   |   |                                                                        |                                             |

### XQ Series Quick Exhaust Valve

| Product Images                                                                      | XQ          | - | 1                                      | - | 170600                                    |
|-------------------------------------------------------------------------------------|-------------|---|----------------------------------------|---|-------------------------------------------|
|  | Series Code |   | Material Code                          |   | Port Size                                 |
|                                                                                     |             |   | L: Cast Aluminum<br>S: Stainless Steel |   | 170600: 1/4<br>171000: 3/8<br>171500: 1/2 |

### ASC Series Flow Control Valves (One-way)

| Product Images                                                                      | ASC                     | 1                                      | 100                                                   | - | □                                                                          |
|-------------------------------------------------------------------------------------|-------------------------|----------------------------------------|-------------------------------------------------------|---|----------------------------------------------------------------------------|
|  | Specification Code      | Material Code                          | Series Code                                           |   | Port Size                                                                  |
|                                                                                     | ASC: Flow Control Valve | L: Cast Aluminum<br>S: Stainless Steel | 100: 100 Series<br>200: 200 Series<br>300: 300 Series |   | 100 Series: 06-G1/8<br>200 Series: 08-G1/4<br>300 Series: 10-G3/8, 15-G1/2 |

### RE Series Flow Control Valve

| Product Images                                                                      | RE                     | 1                                        |
|-------------------------------------------------------------------------------------|------------------------|------------------------------------------|
|  | Specification Code     | Port Size                                |
|                                                                                     | RE: Flow Control Valve | 01: 1/8<br>02: 1/4<br>03: 3/8<br>04: 1/2 |

### QE Series Quick Exhaust Valve

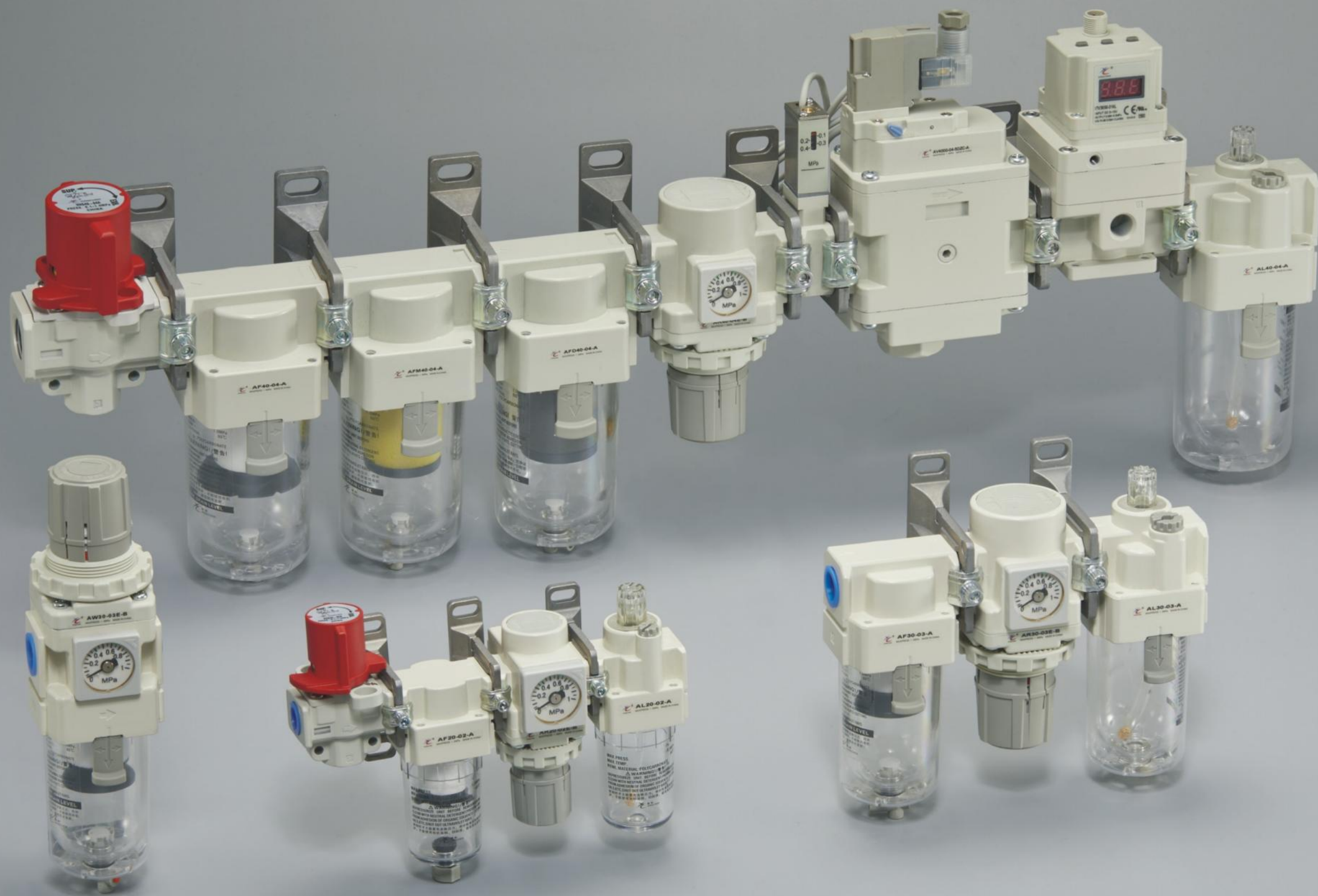
| Product Images                                                                       | QE                 | 01                                       |
|--------------------------------------------------------------------------------------|--------------------|------------------------------------------|
|  | Specification Code | Port Size                                |
|                                                                                      |                    | 01: 1/8<br>02: 1/4<br>03: 3/8<br>04: 1/2 |

### XCVXE Series Vacuum Generation System

| Product Images                                                                        | XCVX E                                                                                                                                                     | 07 D                                               | - | 4                                    | 6 | J                   | - | SP | - | L | D |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---|--------------------------------------|---|---------------------|---|----|---|---|---|
|  | Vacuum Characteristics                                                                                                                                     | Vacuum Port                                        |   | Exhaust Type                         |   | Power Cable         |   |    |   |   |   |
|                                                                                       | H: Medium Flow at High Vacuum<br>L: High Flow at Medium Vacuum<br>E: Low Flow at High Vacuum                                                               | 4: Φ4<br>6: Φ6                                     |   | S: Silencer<br>J: Individual Exhaust |   | Unmarked: 1<br>L: 3 |   |    |   |   |   |
|                                                                                       | Nozzle Diameter                                                                                                                                            | Air Supply Port                                    |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       | 07: Φ0.7<br>10: Φ1.0<br>12: Φ1.2                                                                                                                           | 4: Φ4<br>6: Φ6                                     |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       | Valve Type                                                                                                                                                 |                                                    |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       | Unmarked: Normally Closed (NC)<br>D: Latching Type<br>E: No-break valve; with normally closed vacuum valve<br>DE: No Break Valve, No Vacuum, Latching Type |                                                    |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       |                                                                                                                                                            | Vacuum Switch                                      |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       |                                                                                                                                                            | N: without<br>SP: Pressure Switch with LED Display |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       |                                                                                                                                                            | Mounting Type                                      |   |                                      |   |                     |   |    |   |   |   |
|                                                                                       |                                                                                                                                                            | Unmarked: Direct Mounting<br>D: DIN Rail Mounting  |   |                                      |   |                     |   |    |   |   |   |

### XCZK Series Vacuum Generation System

| Product Images                                                                        | XCZK A                                                                                                                                                       | 12                                                                                                                                                                                                                                                                                                        | K                                 | - | 5 | - | A | - | L | 08               |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|---|---|---|---|---|------------------|
|  | Component Type                                                                                                                                               |                                                                                                                                                                                                                                                                                                           | Rated Voltage                     |   |   |   |   |   |   | Vacuum Port      |
|                                                                                       | A: Single Unit Type (with Silencer)<br>B: Single Unit Type (with Exhaust Port)<br>C: Manifold Type (Common Exhaust)<br>F: Manifold Type (Individual Exhaust) |                                                                                                                                                                                                                                                                                                           | 5: DC24V<br>6: DC12V<br>0: No Nil |   |   |   |   |   |   | 06: Φ6<br>08: Φ8 |
|                                                                                       | Nozzle Diameter                                                                                                                                              |                                                                                                                                                                                                                                                                                                           |                                   |   |   |   |   |   |   |                  |
|                                                                                       | 07: Φ0.7<br>10: Φ1.0<br>12: Φ1.2<br>15: Φ1.5                                                                                                                 |                                                                                                                                                                                                                                                                                                           |                                   |   |   |   |   |   |   |                  |
|                                                                                       | Valve Option                                                                                                                                                 |                                                                                                                                                                                                                                                                                                           |                                   |   |   |   |   |   |   |                  |
|                                                                                       | N: Nil-Nil<br>K: N.C-N.C<br>J: N.C-Nil<br>R: Self-holding release valve linked-N.C                                                                           |                                                                                                                                                                                                                                                                                                           |                                   |   |   |   |   |   |   |                  |
|                                                                                       |                                                                                                                                                              | Pressure Switch                                                                                                                                                                                                                                                                                           |                                   |   |   |   |   |   |   |                  |
|                                                                                       |                                                                                                                                                              | N: without<br>P: Pressure Sensor(0~101 KPa), Analog Output(1~5 V)<br>T: Pressure Sensor(-100~100 KPa), Analog Output(1~5 V)<br>A: Vacuum Pressure Switch(0~101 KPa), 2 NPN Outputs<br>E: Vacuum Pressure Switch(-100~100 KPa), 2 NPN Outputs<br>K: Energy-saving Pressure Switch(0~100 KPa), 1 NPN Output |                                   |   |   |   |   |   |   |                  |
|                                                                                       |                                                                                                                                                              | N: No Supply Valve, Break Valve, Pressure Switch<br>L: L-type Connector (300mm Lead Wire)                                                                                                                                                                                                                 |                                   |   |   |   |   |   |   |                  |



## AC Series Air Filter Regulator Combo

| Product Images                                                                                                                                                                                                             | AC          | □                                                                    | 02                                                    | D                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
|                                                                                                                                           | Series Code | Housing Size                                                         | Thread                                                | Drainage Method                                                 |
|                                                                                                                                                                                                                            |             | FRL<br>1000 1010<br>2000 2010<br>3000 3010<br>4000 4010<br>5000 5010 | M5:M5<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 | Unmarked:differential pressure drainage<br>D:automatic drainage |
| Specifications                                                                                                                                                                                                             |             |                                                                      |                                                       |                                                                 |
| <ul style="list-style-type: none"> <li>Operating Pressure Range:0~1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> <li>Filter Rating:5μm(Optional:2μm,10μm,20μm,40μm,70μm,100μm)</li> </ul> |             |                                                                      |                                                       |                                                                 |

## AW Series Filter Regulator

| Product Images                                                                                                                                                                     | AW          | 2000                                 | 02                                                    | D                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
|                                                                                                  | Series Code | Housing Size                         | Thread                                                | Drainage Method                                                 |
|                                                                                                                                                                                    |             | 1000<br>2000<br>3000<br>4000<br>5000 | M5:M5<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 | Unmarked:differential pressure drainage<br>D:automatic drainage |
| Specifications                                                                                                                                                                     |             |                                      |                                                       |                                                                 |
| <ul style="list-style-type: none"> <li>Operating Pressure Range:0~1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> <li>Filter Rating:5μm</li> </ul> |             |                                      |                                                       |                                                                 |

## AL Series Air Lubricator

| Product Images                                                                                                                                                                     | AL          | 2000                                 | 02                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------|
|                                                                                                 | Series Code | Housing Size                         | Thread                                                |
|                                                                                                                                                                                    |             | 1000<br>2000<br>3000<br>4000<br>5000 | M5:M5<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |
| Specifications                                                                                                                                                                     |             |                                      |                                                       |
| <ul style="list-style-type: none"> <li>Operating Pressure Range:0~1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> <li>Filter Rating:5μm</li> </ul> |             |                                      |                                                       |

## AF Series Filter Regulator

| Product Images                                                                                                                                                                                                             | AF          | 2000                                 | 02                                                    | D                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
|                                                                                                                                         | Series Code | Housing Size                         | Thread                                                | Drainage Method                                                 |
|                                                                                                                                                                                                                            |             | 1000<br>2000<br>3000<br>4000<br>5000 | M5:M5<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 | Unmarked:differential pressure drainage<br>D:automatic drainage |
| Specifications                                                                                                                                                                                                             |             |                                      |                                                       |                                                                 |
| <ul style="list-style-type: none"> <li>Operating Pressure Range:0~1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> <li>Filter Rating:5μm(Optional:2μm,10μm,20μm,40μm,70μm,100μm)</li> </ul> |             |                                      |                                                       |                                                                 |

## AR Series Air Lubricator

| Product Images                                                                                                                                          | AR          | 2000                                 | 02                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------|
|                                                                      | Series Code | Housing Size                         | Thread                                                |
|                                                                                                                                                         |             | 1000<br>2000<br>3000<br>4000<br>5000 | M5:M5<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |
| Specifications                                                                                                                                          |             |                                      |                                                       |
| <ul style="list-style-type: none"> <li>Operating Pressure Range:0~1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> </ul> |             |                                      |                                                       |

## YAC/YBC Series Triple Unit (FRL)

| Product Images                                                                                                                                                                                                                                                                         | YAC                          | 2000                             | M                                             | □ | □ | W                      | □                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------------------|---|---|------------------------|----------------------------------|
|                                                                                                                                                                                                    | Series Code                  | Port Size                        | Type                                          |   |   | Filter Rating          | Thread                           |
|                                                                                                                                                                                                                                                                                        | YAC:A series<br>YBC:B series | 2000:1/4<br>3000:3/8<br>4000:1/2 | Unmarked:standard type<br>L:low-pressure type |   |   | Unmarked:40μm<br>W:5μm | Unmarked:G thread<br>P:PT thread |
| Specifications                                                                                                                                                                                                                                                                         |                              |                                  |                                               |   |   |                        |                                  |
| <ul style="list-style-type: none"> <li>Pressure Regulation Range:0.15~0.9MPa,0.05~0.9MPa(Manual type)</li> <li>Ensure Pressure Resistance:1.5MPa</li> <li>Working Pressure Range:0~1.0MPa</li> <li>Temperature Requirement:~5~70℃(unfrozen)</li> <li>Filter Rating:5μm/40μm</li> </ul> |                              |                                  |                                               |   |   |                        |                                  |

## YAFC/YBFC Series Double Unit

| Product Images                                                                                                                                                                                                                                                                         | YAFC                           | 2000                             | M                                             | □ | □ | W                      | □                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|-----------------------------------------------|---|---|------------------------|----------------------------------|
|                                                                                                                                                                                                   | Series Code                    | Port Size                        | Type                                          |   |   | Filter Rating          | Thread                           |
|                                                                                                                                                                                                                                                                                        | YAFC:A series<br>YBFC:B series | 2000:1/4<br>3000:3/8<br>4000:1/2 | Unmarked:standard type<br>L:low-pressure type |   |   | Unmarked:40μm<br>W:5μm | Unmarked:G thread<br>P:PT thread |
| Specifications                                                                                                                                                                                                                                                                         |                                |                                  |                                               |   |   |                        |                                  |
| <ul style="list-style-type: none"> <li>Pressure Regulation Range:0.15~0.9MPa,0.05~0.9MPa(Manual type)</li> <li>Ensure Pressure Resistance:1.5MPa</li> <li>Working Pressure Range:0~1.0MPa</li> <li>Temperature Requirement:~5~70℃(unfrozen)</li> <li>Filter Rating:5μm/40μm</li> </ul> |                                |                                  |                                               |   |   |                        |                                  |

## YAFR/YBFR Series Pressure Regulating Filter

| Product Images                                                                                                                                                                                                                                                                         | YAFR                           | 2000                             | M                                             | □ | □ | W                      | □                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|-----------------------------------------------|---|---|------------------------|----------------------------------|
|                                                                                                                                                                                                   | Series Code                    | Port Size                        | Type                                          |   |   | Filter Rating          | Thread                           |
|                                                                                                                                                                                                                                                                                        | YAFR:A series<br>YBFR:B series | 2000:1/4<br>3000:3/8<br>4000:1/2 | Unmarked:standard type<br>L:low-pressure type |   |   | Unmarked:40μm<br>W:5μm | Unmarked:G thread<br>P:PT thread |
| Specifications                                                                                                                                                                                                                                                                         |                                |                                  |                                               |   |   |                        |                                  |
| <ul style="list-style-type: none"> <li>Pressure Regulation Range:0.15~0.9MPa,0.05~0.9MPa(Manual type)</li> <li>Ensure Pressure Resistance:1.5MPa</li> <li>Working Pressure Range:0~1.0MPa</li> <li>Temperature Requirement:~5~70℃(unfrozen)</li> <li>Filter Rating:5μm/40μm</li> </ul> |                                |                                  |                                               |   |   |                        |                                  |

## YAL/YAL Series Air Lubricator

| Product Images                                                                    | YAL                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2000                                                           | □                                                          |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|
|  | <div>Series Code</div> <p>YAL:A series<br/>YBL:B series</p>                                                                                                                                                                                                                                                                                                                                                                         | <div>Port Size</div> <p>2000:1/4<br/>3000:3/8<br/>4000:1/2</p> | <div>Thread</div> <p>Unmarked:G thread<br/>P:PT thread</p> |
|                                                                                   | <div>Specifications</div> <div><div><ul style="list-style-type: none"><li>• Operating Pressure Range:0.05~1.0MPa</li><li>• Port Size:PT1/8,PT1/4,PT3/8,PT1/2</li><li>• Ensure Pressure Resistance:1.5MPa</li></ul></div><div><ul style="list-style-type: none"><li>• Temperature Requirement:-5~70℃(unfrozen)</li><li>• Cup Capacity:25CC,90CC</li><li>• Suggested Lubricating Oil:ISO VG32 or the same grade</li></ul></div></div> |                                                                |                                                            |

## YAF/YBF Series Air Filter

| Product Images                                                                    | YAF                                                                                                                                                                                                                                                                      | 2000                                          | M                                                                                  | W                                       | □                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|
|  | Series Code<br>YAF:A series<br>YBF:B series                                                                                                                                                                                                                              | Port Size<br>2000:1/4<br>3000:3/8<br>4000:1/2 | Drainage Method<br>Unmarked:differential pressure drainage<br>A:automatic drainage | Filter Rating<br>Unmarked:40μm<br>W:5μm | Thread<br>Unmarked:G thread<br>P:PT thread |
|                                                                                   | <div>Specifications</div> <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.15-0.9MPa,0-1.0MPa(Manual type)</li><li>• Ensure Pressure Resistance:1.5MPa</li><li>• Temperature Requirement:-5~70°C(unfrozen)</li><li>• Filter Rating:5μm/40μm</li></ul> |                                               |                                                                                    |                                         |                                            |

## YAR/YBR Series Pressure Regulator

| Product Images                                                                                                                                                                                                        | YAR                          | 2000                             | L                                             | <input type="checkbox"/>                   | <input type="checkbox"/>   | <input type="checkbox"/>         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------------------|--------------------------------------------|----------------------------|----------------------------------|
|                                                                                                                                    | Series Code                  | Port Size                        | Type                                          | Accessory                                  | Pressure Gauge             | Thread                           |
|                                                                                                                                                                                                                       | YAR:A series<br>YBR:B series | 2000:1/4<br>3000:3/8<br>4000:1/2 | Unmarked:standard type<br>L:low-pressure type | Unmarked:with bracket<br>N:without bracket | Unmarked:with<br>N:without | Unmarked:G thread<br>P:PT thread |
| Specifications                                                                                                                                                                                                        |                              |                                  |                                               |                                            |                            |                                  |
| <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.05-0.9MPa</li><li>• Ensure Pressure Durability:1.5MPa</li><li>• Max Operating Pressure:1.0MPa</li><li>• Temperature Requirement:-20~70℃</li></ul> |                              |                                  |                                               |                                            |                            |                                  |

## AC10-A~AC60-B Series Air Filter Regulator Combo

| Product Images                                                                                                                            | AC                | 20                               | -                                             | □ | 02 | D                                                                                                                                | E | - | □                                                                                               | S | - | B |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------|-----------------------------------------------|---|----|----------------------------------------------------------------------------------------------------------------------------------|---|---|-------------------------------------------------------------------------------------------------|---|---|---|
|                                                        | Series Code       | Housing Size                     | Port Size                                     |   |    | Pressure Gauge                                                                                                                   |   |   | Option                                                                                          |   |   |   |
|                                                                                                                                           |                   | 10<br>20<br>30<br>40<br>50<br>60 | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 |   |    | Unmarked:without<br>G:with<br>E:embedded pressure gauge                                                                          |   |   | S:pressure switch<br>T:air guide block<br>V:residual pressure release valve                     |   |   |   |
|                                                        | Backflow Function | Drainage Method                  |                                               |   |    | Cup Specifications                                                                                                               |   |   |                                                                                                 |   |   |   |
|                                                                                                                                           |                   | Unmarked:without<br>K:with       |                                               |   |    | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.)                                             |   |   | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |   |   |   |
| Specifications                                                                                                                            |                   |                                  |                                               |   |    |                                                                                                                                  |   |   |                                                                                                 |   |   |   |
| <ul style="list-style-type: none"><li>• Max Operating Pressure:1.0MPa</li><li>• Max Pressure:1.5MPa</li><li>• Filter Rating:5μm</li></ul> |                   |                                  |                                               |   |    | <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.05~0.85MPa</li><li>• Temperature Requirement:5~60℃</li></ul> |   |   |                                                                                                 |   |   |   |

## AC10A-A~AC60A-B Series Air Filter Regulator Combo

| Product Images                                                                                                                            | AC 20 - 02 □ E - □ S - B               |  |                                               |                                                                                      |                                                         |                                                                                                                                  |                    |  |                                                                             |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--|-----------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--|-----------------------------------------------------------------------------|--|--|
|                                                        | Housing Size                           |  | Port Size                                     |                                                                                      | Pressure Gauge                                          |                                                                                                                                  |                    |  | Option                                                                      |  |  |
|                                                                                                                                           | 10A<br>20A<br>30A<br>40A<br>50A<br>60A |  | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 |                                                                                      | Unmarked:without<br>G:with<br>E:embedded pressure gauge |                                                                                                                                  |                    |  | S:pressure switch<br>T:air guide block<br>V:residual pressure release valve |  |  |
|                                                                                                                                           | Series Code                            |  |                                               |                                                                                      | Drainage Method                                         |                                                                                                                                  | Cup Specifications |  |                                                                             |  |  |
|                                                                                                                                           |                                        |  |                                               | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |                                                         | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup                                  |                    |  |                                                                             |  |  |
| Specifications                                                                                                                            |                                        |  |                                               |                                                                                      |                                                         |                                                                                                                                  |                    |  |                                                                             |  |  |
| <ul style="list-style-type: none"><li>• Max Operating Pressure:1.0MPa</li><li>• Max Pressure:1.5MPa</li><li>• Filter Rating:5μm</li></ul> |                                        |  |                                               |                                                                                      |                                                         | <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.05~0.85MPa</li><li>• Temperature Requirement:5~60℃</li></ul> |                    |  |                                                                             |  |  |

## AC10-B~AC60-B Series Air Filter Regulator Combo

| Product Images                                                                                                                            | AC 20B - 02 □ E - □ S - B              |  |                                                                 |  |                                                                                      |                                                                                                                                  |                                                                                                 |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--|-----------------------------------------------------------------|--|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|--|--|--|
|                                                       | Housing Size                           |  | Port Size                                                       |  | Pressure Gauge                                                                       |                                                                                                                                  | Option                                                                                          |  |  |  |  |
|                                                                                                                                           | 10B<br>20B<br>30B<br>40B<br>50B<br>60B |  | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |  | Unmarked:without<br>G:with<br>E:embedded pressure gauge                              |                                                                                                                                  | S:pressure switch<br>T:air guide block<br>V:residual pressure release valve                     |  |  |  |  |
|                                                                                                                                           | Series Code                            |  |                                                                 |  | Drainage Method                                                                      |                                                                                                                                  | Cup Specifications                                                                              |  |  |  |  |
|                                                                                                                                           |                                        |  |                                                                 |  | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |                                                                                                                                  | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |  |  |  |  |
| Specifications                                                                                                                            |                                        |  |                                                                 |  |                                                                                      |                                                                                                                                  |                                                                                                 |  |  |  |  |
| <ul style="list-style-type: none"><li>• Max Operating Pressure:1.0MPa</li><li>• Max Pressure:1.5MPa</li><li>• Filter Rating:5μm</li></ul> |                                        |  |                                                                 |  |                                                                                      | <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.05-0.85MPa</li><li>• Temperature Requirement:5~60℃</li></ul> |                                                                                                 |  |  |  |  |

## AC20C~AC40C-B Series Air Filter Regulator Combo

| Product Images                                                                                                                                                    | AC                                     | 20C | -                                                                                    | 02 | □                                                       | E                                                                                                                                | - | □                                                                           | S | - | B |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----|--------------------------------------------------------------------------------------|----|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|---|---|---|
|                                                                              | Housing Size                           |     | Port Size                                                                            |    | Pressure Gauge                                          |                                                                                                                                  |   | Option                                                                      |   |   |   |
|                                                                                                                                                                   | 10C<br>20C<br>30C<br>40C<br>50C<br>60C |     | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1                      |    | Unmarked:without<br>G:with<br>E:embedded pressure gauge |                                                                                                                                  |   | S:pressure switch<br>T:air guide block<br>V:residual pressure release valve |   |   |   |
|                                                                              | Series Code                            |     | Drainage Method                                                                      |    |                                                         | Cup Specifications                                                                                                               |   |                                                                             |   |   |   |
|                                                                                                                                                                   |                                        |     | Unmarked>manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |    |                                                         | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup                                  |   |                                                                             |   |   |   |
| Specifications                                                                                                                                                    |                                        |     |                                                                                      |    |                                                         |                                                                                                                                  |   |                                                                             |   |   |   |
| <ul style="list-style-type: none"><li>• Max Operating Pressure:1.0MPa</li><li>• Max Pressure:1.5MPa</li><li>• Filter Rating:AF-5μm,AFM/AFD-0.3μm/0.01μm</li></ul> |                                        |     |                                                                                      |    |                                                         | <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.05-0.85MPa</li><li>• Temperature Requirement:5~60℃</li></ul> |   |                                                                             |   |   |   |

## AC20D-B~AC40-B Series Air Filter Regulator Combo

| Product Images                                                                                                                                                    | AC 20D - 02 □ E □ S - B  |  |                                                                                      |  |                                                         |                                                                                                                                  |  |                                                                             |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|--------------------------------------------------------------------------------------|--|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|--|--|--|
|                                                                              | Housing Size             |  | Port Size                                                                            |  | Pressure Gauge                                          |                                                                                                                                  |  | Option                                                                      |  |  |  |
|                                                                                                                                                                   | 10D<br>20D<br>30D<br>40D |  | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2                                        |  | Unmarked:without<br>G:with<br>E:embedded pressure gauge |                                                                                                                                  |  | S:pressure switch<br>T:air guide block<br>V:residual pressure release valve |  |  |  |
|                                                                                                                                                                   | Series Code              |  | Drainage Method                                                                      |  |                                                         | Cup Specifications                                                                                                               |  |                                                                             |  |  |  |
|                                                                                                                                                                   |                          |  | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |  |                                                         | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup                                  |  |                                                                             |  |  |  |
| Specifications                                                                                                                                                    |                          |  |                                                                                      |  |                                                         |                                                                                                                                  |  |                                                                             |  |  |  |
| <ul style="list-style-type: none"><li>• Max Operating Pressure:1.0MPa</li><li>• Max Pressure:1.5MPa</li><li>• Filter Rating:AF-5μm,AFM/AFD-0.3μm/0.01μm</li></ul> |                          |  |                                                                                      |  |                                                         | <ul style="list-style-type: none"><li>• Pressure Regulation Range:0.05-0.85MPa</li><li>• Temperature Requirement:5~60℃</li></ul> |  |                                                                             |  |  |  |

## AF10~60-A Series Air Filter

| Product Images                                                                                                                                                                                       | AF                               | 20 | K                                                               | - | 02 | □                                                                                    | N | -                                                                                               | □ | - | A |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----|-----------------------------------------------------------------|---|----|--------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------|---|---|---|
|                                                                                                                     | Housing Size                     |    | Port Size                                                       |   |    | Drainage Method                                                                      |   | Cup Specifications                                                                              |   |   |   |
|                                                                                                                                                                                                      | 10<br>20<br>30<br>40<br>50<br>60 |    | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |   |    | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |   | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |   |   |   |
|                                                                                                                                                                                                      | Series Code                      |    | Backflow Function                                               |   |    | Option                                                                               |   |                                                                                                 |   |   |   |
|                                                                                                                                                                                                      |                                  |    | Unmarked:without<br>K:with                                      |   |    | 1:low-pressure type(0.02-0.2Mpa)<br>N:non-relief type<br>R:right-side air inlet      |   |                                                                                                 |   |   |   |
|                                                                                                                                                                                                      | Specifications                   |    |                                                                 |   |    |                                                                                      |   |                                                                                                 |   |   |   |
| <ul style="list-style-type: none"><li>• Withstand Pressure:1.5MPa</li><li>• Max Operating Pressure:1.0MPa</li><li>• Filtration grade:5μm</li><li>• Temperature Requirement:5~60℃(unfrozen)</li></ul> |                                  |    |                                                                 |   |    |                                                                                      |   |                                                                                                 |   |   |   |

## AFM(D)20~40-A Series Oil Mist Separator

| Product Images                                                                                                                                                                               |                                       | AFM 20 - K 02 □ N - □ - A |                            |                                               |                                                                                 |  |                                                                                      |  |  |                                                                                                 |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------|----------------------------|-----------------------------------------------|---------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------------|--|--|
|                                                                                                             | Housing Size                          |                           |                            | Port Size                                     |                                                                                 |  | Drainage Method                                                                      |  |  | Cup Specifications                                                                              |  |  |
|                                                                                                                                                                                              | 20<br>30<br>40                        |                           |                            | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 |                                                                                 |  | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |  |  | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |  |  |
|                                                                                                                                                                                              | Series Code                           |                           | Backflow Function          |                                               | Option                                                                          |  |                                                                                      |  |  |                                                                                                 |  |  |
|                                                                                                                                                                                              | AFM:basic type<br>AFD:micro mist type |                           | Unmarked:without<br>K:with |                                               | 1:low-pressure type(0.02-0.2Mpa)<br>N:non-relief type<br>R:right-side air inlet |  |                                                                                      |  |  |                                                                                                 |  |  |
|                                                                                                                                                                                              | Specifications                        |                           |                            |                                               |                                                                                 |  |                                                                                      |  |  |                                                                                                 |  |  |
| <ul style="list-style-type: none"><li>Withstand Pressure:1.5MPa</li><li>Max Operating Pressure:1.0MPa</li><li>Filtration grade:5μm</li><li>Temperature Requirement:5~60℃(unfrozen)</li></ul> |                                       |                           |                            |                                               |                                                                                 |  |                                                                                      |  |  |                                                                                                 |  |  |

## AR10~60-B Series Pressure Reducing Valve

| Product Images                                                                                                                                                                                                         | AR                               | 20                         | K                                                               | - | 02 | □                                                       | - | N                                                                               | - | B |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------|-----------------------------------------------------------------|---|----|---------------------------------------------------------|---|---------------------------------------------------------------------------------|---|---|--|
|                                                                                                                                     | Housing Size                     |                            | Port Size                                                       |   |    | Pressure Gauge                                          |   | Option                                                                          |   |   |  |
|                                                                                                                                                                                                                        | 10<br>20<br>30<br>40<br>50<br>60 |                            | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |   |    | Unmarked:without<br>G:with<br>E:embedded pressure gauge |   | 1:low-pressure type(0.02-0.2Mpa)<br>N:non-relief type<br>R:right-side air inlet |   |   |  |
|                                                                                                                                                                                                                        | Series Code                      | Backflow Function          |                                                                 |   |    |                                                         |   |                                                                                 |   |   |  |
|                                                                                                                                                                                                                        |                                  | Unmarked:without<br>K:with |                                                                 |   |    |                                                         |   |                                                                                 |   |   |  |
|                                                                                                                                                                                                                        | Specifications                   |                            |                                                                 |   |    |                                                         |   |                                                                                 |   |   |  |
| <ul style="list-style-type: none"><li>• Ensure Pressure Durability:1.5MPa</li><li>• Max Operating Pressure:1.0MPa</li><li>• Set Pressure Range:0.05-0.7MPa</li><li>• Temperature Requirement:5-60℃(unfrozen)</li></ul> |                                  |                            |                                                                 |   |    |                                                         |   |                                                                                 |   |   |  |

## AL10~60-A Series Air Lubricator

| Product Images                                                                                                                                                                        |  | AL - N 02 - □ - A                                                                  |  |                                  |  |                             |  |                                                                 |  |                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|----------------------------------|--|-----------------------------|--|-----------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|--|
|                                                                                                    |  | Series Code                                                                        |  | Housing Size                     |  | Thread                      |  | Port Thread                                                     |  | Cup Specifications                                                                              |  |
|                                                                                                                                                                                       |  | AWM:oil mist filter pressure regulator<br>AWD:micro mist filter pressure regulator |  | 10<br>20<br>30<br>40<br>50<br>60 |  | Unmarked:Rc<br>N:NPT<br>F:G |  | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |  | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |  |
|                                                                                                                                                                                       |  |                                                                                    |  |                                  |  |                             |  |                                                                 |  |                                                                                                 |  |
|                                                                                                                                                                                       |  |                                                                                    |  |                                  |  |                             |  |                                                                 |  |                                                                                                 |  |
|                                                                                                                                                                                       |  |                                                                                    |  |                                  |  |                             |  |                                                                 |  |                                                                                                 |  |
| Specifications                                                                                                                                                                        |  |                                                                                    |  |                                  |  |                             |  |                                                                 |  |                                                                                                 |  |
| <ul style="list-style-type: none"><li>• Filter Rating:5μm</li><li>• Operating Pressure Range:0~1.0MPa</li><li>• Max Pressure:1.5MPa</li><li>• Temperature Requirement:5~60℃</li></ul> |  |                                                                                    |  |                                  |  |                             |  |                                                                 |  |                                                                                                 |  |

## AW10-A~60-B/AW20~60K-B Series Pressure Reducing Valve

| Product Images                                                                                                                                                                                                                                                                                                                 |                                  | AW 20 K - 02 - □ E - N □ - B |                            |                                                                 |                                                                                      |  |                                                         |                                                                                 |  |                                                                                                 |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|----------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|--|---------------------------------------------------------|---------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|--|--|--|--|
|                                                                                                                                                                                                                                             | Housing Size                     |                              |                            | Port Thread                                                     |                                                                                      |  | Pressure Gauge                                          |                                                                                 |  | Cup Specifications                                                                              |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                | 10<br>20<br>30<br>40<br>50<br>60 |                              |                            | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |                                                                                      |  | Unmarked:without<br>G:with<br>E:embedded pressure gauge |                                                                                 |  | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                | Series Code                      |                              | Backflow Function          |                                                                 | Drainage Method                                                                      |  |                                                         | Option                                                                          |  |                                                                                                 |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                |                                  |                              | Unmarked:without<br>K:with |                                                                 | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |  |                                                         | 1:low-pressure type(0.02-0.2Mpa)<br>N:non-relief type<br>R:right-side air inlet |  |                                                                                                 |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                | Specifications                   |                              |                            |                                                                 |                                                                                      |  |                                                         |                                                                                 |  |                                                                                                 |  |  |  |  |
| <div><div><ul style="list-style-type: none"><li>• Ensure Pressure Durability:1.5MPa</li><li>• Max Operating Pressure:1.0MPa</li><li>• Filtration grade:5μm</li></ul></div><div><ul style="list-style-type: none"><li>• Set Pressure Range:0.05-0.85MPa</li><li>• Temperature Requirement:5~60℃(unfrozen)</li></ul></div></div> |                                  |                              |                            |                                                                 |                                                                                      |  |                                                         |                                                                                 |  |                                                                                                 |  |  |  |  |

## AWM20~40-B/AWD20~60-B Series High-precision Pressure Reducing Valve

| Product Images                                                                                                                                                                                                | AWM 20 K - 02 - □ E - N □ - B    |  |                            |                                                                 |                                                                                      |  |                                                         |                                                                                 |  |                                                                                                 |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--|----------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|--|---------------------------------------------------------|---------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|--|--|--|
|                                                                                                                           | Housing Size                     |  |                            | Port Thread                                                     |                                                                                      |  | Pressure Gauge                                          |                                                                                 |  | Cup Specifications                                                                              |  |  |  |
|                                                                                                                                                                                                               | 10<br>20<br>30<br>40<br>50<br>60 |  |                            | M5:M5<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |                                                                                      |  | Unmarked:without<br>G:with<br>E:embedded pressure gauge |                                                                                 |  | Unmarked:transparent<br>C:with protective cover<br>2:metal cup<br>8:with liquid level metal cup |  |  |  |
|                                                                                                                                                                                                               | Series Code                      |  | Backflow Function          |                                                                 | Drainage Method                                                                      |  |                                                         | Option                                                                          |  |                                                                                                 |  |  |  |
|                                                                                                                                                                                                               |                                  |  | Unmarked:without<br>K:with |                                                                 | Unmarked:manual drainage<br>D:automatic drainage(N.O.)<br>C:automatic drainage(N.C.) |  |                                                         | 1:low-pressure type(0.02-0.2Mpa)<br>N:non-relief type<br>R:right-side air inlet |  |                                                                                                 |  |  |  |
|                                                                                                                                                                                                               | Specifications                   |  |                            |                                                                 |                                                                                      |  |                                                         |                                                                                 |  |                                                                                                 |  |  |  |
| <ul style="list-style-type: none"><li>Withstand Pressure:1.5MPa</li><li>Max Operating Pressure:1.0MPa</li><li>Filtration grade:AWM 0.3μm,AWD 0.01μm</li><li>Temperature Requirement:5~60℃(unfrozen)</li></ul> |                                  |  |                            |                                                                 |                                                                                      |  |                                                         |                                                                                 |  |                                                                                                 |  |  |  |

## VHS Series Residual Pressure Relief Valve

| Product Images                                                                        | VHS                                                                                                | 40                   | 04                                                     | A                                   | - | BS                                                             | - | □                                                                                                      | - | □      |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------|-------------------------------------|---|----------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------|---|--------|
|  |                                                                                                    | Size                 | Pipe Size                                              |                                     |   | Accessories                                                    |   | Specification                                                                                          |   | Color  |
|                                                                                       |                                                                                                    | 20<br>30<br>40<br>50 | 01:1/8<br>02:1/4<br>03:3/8<br>04:1/2<br>06:3/4<br>10:1 |                                     |   | B:with bracket<br>S:built-in silencer                          |   | Unmarked:standard<br>R:flow from left to right<br>Z:the unit on the product nameplate is marked as psi |   | X1:red |
|                                                                                       | Series Code                                                                                        |                      |                                                        | Knob/Top Cover Material             |   |                                                                |   |                                                                                                        |   |        |
|                                                                                       | 3-port valve                                                                                       |                      |                                                        | A:flame-retardant PBT<br>B:Aluminum |   |                                                                |   |                                                                                                        |   |        |
|                                                                                       | Specifications                                                                                     |                      |                                                        |                                     |   |                                                                |   |                                                                                                        |   |        |
|                                                                                       | • Type:with locking holes<br>• Pressure Resistance:1.5MPa<br>• Operating Pressure Range:0.1-1.0MPa |                      |                                                        |                                     |   | • Knob Switching Angle:90°<br>• Temperature Requirement:-5~60℃ |   |                                                                                                        |   |        |

## AV Series Soft Start Valve

| Product Images                                                                                                                                                                                                         |                                  | AV 2000 - 02 B - 1 D - Z B - □ - A |                                                               |  |                                                                          |  |                                                                                                                                                                  |  |                                             |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|---------------------------------------------------------------|--|--------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|--|--|--|--|--|--|
|                                                                                                                                   | Series Code                      |                                    | Pipe Size                                                     |  | Rated Voltage                                                            |  | Accessory                                                                                                                                                        |  | Flow Direction                              |  |  |  |  |  |  |
|                                                                                                                                                                                                                        |                                  |                                    | 02: 1/4<br>03: 3/8<br>04: 1/2<br>06: 3/4<br>10: 1             |  | 1: AC100V<br>2: AC200V<br>3: AC110V<br>4: AC220V<br>5: DC24V<br>6: DC12V |  | Z: with indicator light & overvoltage protection circuit                                                                                                         |  | Unmarked: left to right<br>R: right to left |  |  |  |  |  |  |
|                                                                                                                                                                                                                        | Housing Size                     |                                    | Accessory                                                     |  | Wiring Method                                                            |  | Wiring Method                                                                                                                                                    |  |                                             |  |  |  |  |  |  |
|                                                                                                                                                                                                                        | 2000: 20<br>3000: 30<br>4000: 40 |                                    | B: with bracket<br>G: with pressure gauge<br>S: with silencer |  | G: Direct lead-out type<br>D: DIN socket type                            |  | Unmarked: non-locking push-button operation<br>B: push-down rotational locking type<br>screwdriver operation                                                     |  |                                             |  |  |  |  |  |  |
|                                                                                                                                                                                                                        | Specifications                   |                                    |                                                               |  |                                                                          |  |                                                                                                                                                                  |  |                                             |  |  |  |  |  |  |
| <ul style="list-style-type: none"><li>• Ensure Pressure Durability: 1.0MPa</li><li>• Max Operating Pressure: 0.7MPa</li><li>• Set Pressure Range: 0.1~0.4MPa, 0.1~0.6MPa</li><li>• Contact Configuration: 1a</li></ul> |                                  |                                    |                                                               |  |                                                                          |  | <ul style="list-style-type: none"><li>• Scale Error: below ±0.05MPa</li><li>• Hysteresis: &lt;0.08MPa</li><li>• Repeatability Accuracy: below ±0.05MPa</li></ul> |  |                                             |  |  |  |  |  |  |

## IR Series Precision Pressure Regulator

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                  | IR          | 2                                                | 0                                                   | 0                                                                                                   | 0 - 02                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                | Series Code | Housing Size<br>1:IR1000<br>1:IR2000<br>1:IR3000 | Setting Type<br>0:basic type<br>1:air-operated type | Setting Pressure Range<br>0:0.005-0.2MPa<br>0:0.01-0.2MPa(IR3000)<br>1:0.01-0.4MPa<br>2:0.01-0.8MPa | Pipe Size<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Sensitivity:&lt;0.2%</li> <li>Repeatability:±0.5%</li> <li>Max Pressure:1.0MPa</li> <li>Air Consumption <ul style="list-style-type: none"> <li>IR10□0: Maximum 4.4 l/min (ANR) at 1.0 MPa pressure</li> <li>IR20□0/IR2120: Maximum 4.4 l/min (ANR) at 1.0 MPa pressure</li> <li>IR30□0/IR3120: Maximum 11.5 l/min (ANR) at 1.0 MPa pressure</li> </ul> </li> </ul> |             |                                                  |                                                     |                                                                                                     |                                                   |

## IRV Series Vacuum Regulator

| Product Images                                                                                                                                                                                                                                                                                                | IRV         | 20                                                               | -                                                                               | □                                                      | C08                                                                                                                                                                                                                                                                                                        | □                                                                        | □ |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---|
|                                                                                                                                                                                                                             | Series Code | Connector Type<br>Unmarked:straight-through type<br>L:elbow type | Pipe Size<br>C06:Φ06<br>C08:Φ08<br>C10:Φ10<br>N07:Φ1/4<br>N09:Φ5/16<br>N11:Φ3/8 | Accessories<br>B:with bracket<br>L:with bottom bracket | Accessories<br>GN:gauging nut assembly<br>G:pressure gauge<br>ZN:digital pressure switch(NPN open collector 1 outputs)<br>ZP:digital pressure switch(PNP open collector 1 outputs)<br>ZA:digital pressure switch(NPN open collector 2 outputs)<br>ZB:digital pressure switch(PNP open collector 2 outputs) | Size<br>10:Max flow rate 140L/min(ANR)<br>20:Max flow rate 240L/min(ANR) |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Setting Pressure Range:-100~1.3kPa</li> <li>Max Pressure:100kPa(excluding pressure gauge)</li> <li>Inhaled Atmospheric Consumption:&lt;0.6L/min(ANR)</li> <li>Handwheel Resolution:&lt;0.13kPa</li> <li>Temperature Requirement:5~60℃</li> </ul> |             |                                                                  |                                                                                 |                                                        |                                                                                                                                                                                                                                                                                                            |                                                                          |   |

## XAR200 Series Pressure Regulator

| Product Images                                                                                                                                                                                                                           | XAR         | K                   | 8A                                                    | -                                                                                                     | Q                                            | 1K                                      | □                                       | B3 | □ |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------------------------|----|---|
|                                                                                                                                                       | Series Code | Port Size<br>8A:1/4 | Type<br>Unmarked:overflow type<br>Q:non-overflow type | Pressure Range(MPa)<br>Unmarked:0.05-0.85<br>1K:0.05-0.1<br>2K:0.05-0.2<br>3K:0.05-0.3<br>4K:0.05-0.4 | Pressure Gauge<br>Unmarked:with<br>N:without | Thread<br>Unmarked:Rc<br>G:G<br>NPT:NPT | Bracket<br>Unmarked:L type<br>B3:Z type |    |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Pressure Regulation Range:0.05-0.85MPa</li> <li>Ensure Pressure Durability:1.5MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Temperature Requirement:-5~60℃</li> </ul> |             |                     |                                                       |                                                                                                       |                                              |                                         |                                         |    |   |

## SDR Series Pressure Regulating Valve

| Product Images                                                                                                                                                                                                                                                                      | SDR         | 100                          | 06                                     | -                                     | L                                            | J                                       | □                                                     | □ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|----------------------------------------|---------------------------------------|----------------------------------------------|-----------------------------------------|-------------------------------------------------------|---|
|                                                                                                                                                                                                  | Series Code | Specifications<br>100<br>200 | Port Size<br>M5:M5<br>06:1/8<br>08:1/4 | Bracket<br>Unmarked:with<br>J:without | Pressure Gauge<br>Unmarked:with<br>N:without | Thread<br>Unmarked:Rc<br>G:G<br>NPT:NPT | Type<br>Unmarked:standard type<br>L:low-pressure type |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Pressure Regulation Range:0.05-0.9MPa or 0.03-0.4MPa</li> <li>Filter element coarseness:20μm,40μm</li> <li>Pressure Resistance:1.5MPa</li> <li>Max Pressure:1.0MPa</li> <li>Temperature Requirement:-20~70℃</li> </ul> |             |                              |                                        |                                       |                                              |                                         |                                                       |   |

## ARM5S Series Single-unit Pressure Regulator

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                             | ARM5        | S           | A                                                      | -                              | 07                                           | - | □ |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|--------------------------------------------------------|--------------------------------|----------------------------------------------|---|---|
|                                                                                                                                                                                                                                                                                                                                                                         | Series Code | Single-unit | Mount Type<br>A:direct mounting<br>B:DIN rail mounting | In-Out Connector<br>07:6mm-4mm | Pressure Gauge<br>Unmarked:without<br>A:with |   |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operation Mode:direct-acting type</li> <li>Pressure Mode:piston type</li> <li>Relief Structure:relief type(standard), non-relief type(quasi-standard)</li> <li>Backflow Function:with backflow function( non-balanced type)</li> <li>Set Pressure Range:0.05-0.7MPa</li> <li>Operating Pressure Range:0-1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> </ul> |             |             |                                                        |                                |                                              |   |   |

## ARM5A Series Modular Pressure Regulator

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                         | ARM5        | A              | A                                     | 1                                         | -                              | 3                                            | 07 | - | □ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------|----|---|---|
|                                                                                                                                                                                                                                                                                                                                                                    | Series Code | A:modular type | Piping Location<br>1:below<br>2:above | Way Quantity<br>1,2,3,4,5,6,7,8,9<br>M-10 | In-Out Connector<br>07:6mm-4mm | Pressure Gauge<br>Unmarked:without<br>A:with |    |   |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operation Mode:direct-acting type</li> <li>Pressure Mode:piston type</li> <li>Relief Structure:relief type(standard), non-relief type(quasi-standard)</li> <li>Backflow Function:with backflow function( non-balanced type)</li> <li>Set Pressure Range:0.05-0.7MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> </ul> |             |                |                                       |                                           |                                |                                              |    |   |   |

## ARM5B Series Modular Pressure Regulator

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                             | ARM5        | B                                                      | A                                         | -                              | 4                                            | 07 | - | □ |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------|----|---|---|
|                                                                                                                                                                                                                                                                                                                                                                       | Series Code | Mount Type<br>A:direct mounting<br>B:DIN rail mounting | Way Quantity<br>1,2,3,4,5,6,7,8,9<br>M-10 | In-Out Connector<br>07:6mm-4mm | Pressure Gauge<br>Unmarked:without<br>A:with |    |   |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operation Mode:direct-acting type</li> <li>Pressure Mode:piston type</li> <li>Relief Structure:relief type(standard), non-relief type(quasi-standard)</li> <li>Backflow Function:with backflow function( non-balanced type)</li> <li>Set Pressure Range:0.05-0.7MPa</li> <li>Operating Pressure Range:0-1.0MPa</li> <li>Max Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> </ul> |             |                                                        |                                           |                                |                                              |    |   |   |

## ARM10 Series Single-unit Pressure Regulator

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ARM10                                 | 1                              | 07                                                                    | -                            | B | - | □ | Z |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------|-----------------------------------------------------------------------|------------------------------|---|---|---|---|
|                                                                                                                                                                                                                                                                                                                                                                            | Piping Location<br>1:below<br>2:above | In-Out Connector<br>07:6mm-4mm | Mount Accessories<br>B:bracket<br>G:pressure gauge<br>BG<br>GP<br>GPC | Quasi-standard Specification |   |   |   |   |
| <b>Specifications</b> <ul style="list-style-type: none"> <li>Operation Mode:direct-acting type</li> <li>Pressure Mode:diaphragm type</li> <li>Relief Structure:relief type(standard), non-relief type(quasi-standard)</li> <li>Backflow Function:with backflow function( non-balanced type)</li> <li>Set Pressure Range:0.05-0.7MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Withstand Pressure:1.5MPa</li> <li>Temperature Requirement:5~60℃</li> </ul> |                                       |                                |                                                                       |                              |   |   |   |   |

### QTYH Series High-pressure Reducing Valve

| Product Images                                                                                                                                              | QTYH        | - | 15                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|---------------------------------------------------------------------------------------------------|
|                                                                            | Series Code |   | Port Size<br>08:G1/4<br>10:G3/8<br>15:G1/2<br>20:G3/4<br>25:G1<br>32:G1 1/4<br>40:G1 1/2<br>50:G2 |
| <b>Specifications</b>                                                                                                                                       |             |   |                                                                                                   |
| <ul style="list-style-type: none"> <li>Set Pressure Range:0.05~0.35MPa</li> <li>Max Input Pressure:4MPa</li> <li>Temperature Requirement:-25~80℃</li> </ul> |             |   |                                                                                                   |

### QSLH Series High-pressure Filter

| Product Images                                                                                                                                                                                            | QSLH        | - | 15                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|---------------------------------------------------------------------------------------------------|
|                                                                                                                         | Series Code |   | Port Size<br>08:G1/4<br>10:G3/8<br>15:G1/2<br>20:G3/4<br>25:G1<br>32:G1 1/4<br>40:G1 1/2<br>50:G2 |
| <b>Specifications</b>                                                                                                                                                                                     |             |   |                                                                                                   |
| <ul style="list-style-type: none"> <li>Filter Element Coarseness:20μm,40μm</li> <li>Working Pressure Range:0.15~4.0MPa</li> <li>Max Input Pressure:4MPa</li> <li>Temperature Requirement:5~80℃</li> </ul> |             |   |                                                                                                   |

### QFRH Series High-pressure Regulating Filter

| Product Images                                                                                                                                                                                              | QFRH        | - | 15                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|---------------------------------------------------------------------------------------------------|
|                                                                                                                          | Series Code |   | Port Size<br>08:G1/4<br>10:G3/8<br>15:G1/2<br>20:G3/4<br>25:G1<br>32:G1 1/4<br>40:G1 1/2<br>50:G2 |
| <b>Specifications</b>                                                                                                                                                                                       |             |   |                                                                                                   |
| <ul style="list-style-type: none"> <li>Filter Element Coarseness:20μm,40μm</li> <li>Working Pressure Range:0.15~4.0MPa</li> <li>Max Input Pressure:4MPa</li> <li>Temperature Requirement:-25~80℃</li> </ul> |             |   |                                                                                                   |

### AP100 Series Overflow Valve

| Product Images                                                                                                                                                                                                               | AP          | □                                       | 01                                    | - | □                                     | - | X201                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|---------------------------------------|---|---------------------------------------|---|-----------------------------------------|
|                                                                                                                                           | Series Code | Thread<br>Unmarked:Rc<br>G:G<br>NPT:NPT | Connection Thread<br>01:1/8<br>02:1/4 |   | Bracket<br>Unmarked:without<br>B:with |   | Pressure Range(MPa)<br>X201:01:0.02~0.2 |
| <b>Specifications</b>                                                                                                                                                                                                        |             |                                         |                                       |   |                                       |   |                                         |
| <ul style="list-style-type: none"> <li>Pressure Regulation Range:0.05~0.69MPa</li> <li>Ensure Pressure Durability:1.5MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Temperature Requirement:-5~60℃(unfrozen)</li> </ul> |             |                                         |                                       |   |                                       |   |                                         |

### AD402 Series Automatic Drainage Device

| Product Images                                                                                                                                                                                                                              | AD          | 402        | 04        | - | 1/2                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-----------|---|-----------------------------------------|
|                                                                                                                                                          | Series Code | Valve Size | Pipe Size |   | Pressure Range(MPa)<br>X201:01:0.02~0.2 |
| <b>Specifications</b>                                                                                                                                                                                                                       |             |            |           |   |                                         |
| <ul style="list-style-type: none"> <li>Ensure Pressure Resistance:1.5MPa</li> <li>Working Pressure Range:0.1~1.0MPa</li> <li>Temperature Requirement:5~60℃</li> <li>Pipe Diameter:1/4,3/8,1/2</li> <li>Drain Outlet Diameter:3/8</li> </ul> |             |            |           |   |                                         |

### G Series Pressure Gauge

| Product Images                                                                                                                                                                                                        | F            | -           | G                                                                | S                    | 40                   | 10                                                       | M |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------------------------------------------------------------|----------------------|----------------------|----------------------------------------------------------|---|
|                                                                                                                                   | Accessoriesz | Series Code | Mounting Type                                                    | Dial Outer Diameter  | Max Display Pressure | Scale&Thread                                             |   |
|                                                                                                                                                                                                                       |              |             | S:standard<br>F:panel<br>U:embedded<br>P:stainless steel housing | 30<br>40<br>50<br>60 | 04:0.4MPa<br>10:1MPa | M:MPa(PT)<br>P:psi(NPT)<br>B:bar(G)<br>Z:kgf/cm²&psi(PT) |   |
| Specifications                                                                                                                                                                                                        |              |             |                                                                  |                      |                      |                                                          |   |
| <ul style="list-style-type: none"><li>• Accuracy Grade:2.5</li><li>• Pressure Range:0~1.0MPa,0~0.4MPa,0~0.2MPa</li><li>• Material:SPCC(housing),Brass(gauge core)</li><li>• Temperature Requirement:-40~70℃</li></ul> |              |             |                                                                  |                      |                      |                                                          |   |

### DPS Series Digital Pressure Sensor

| Product Images                                                                        | DPS - 01 - R - N1 - M                                                                                                                                                                                                                       |  |                                           |  |                                                                                                                                                                                                                                                          |  |  |                                                                                                                                                     |  |  |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | Series Code                                                                                                                                                                                                                                 |  | Port<br>R:R1/8(M5×0.8<br>internal thread) |  | Output Method<br>N1:NPN 1 Output<br>P1:PNP 1 Output<br>N2:NPN 2 Output<br>P2:PNP 2 Output<br>C:NPN 1 Output(Analog Voltage Output)<br>D:NPN 1 Output(Analog Current Output)<br>RS:Modbus Protocol RS485 Interface, Single-Channel Switch Output(NPN/PNP) |  |  | Option<br>A:with metal bracket A<br>M:with plastic panel mounting bracket<br>MS:with plastic panel mounting<br>bracket&transparent protective cover |  |  |
|                                                                                       | Measurement Range<br>10:Positive Pressure(-0.1~1.0MPa)<br>01:Mixed Pressure(-100~100KPa)<br>00:Negative Pressure(0~101KPa)                                                                                                                  |  |                                           |  |                                                                                                                                                                                                                                                          |  |  |                                                                                                                                                     |  |  |
|                                                                                       | <b>Specifications</b> <ul style="list-style-type: none"><li>• Accuracy Grade:2.5</li><li>• Pressure Range:0~1.0MPa,0~0.4MPa,0~0.2MPa</li><li>• Material:SPCC(housing),Brass(gauge core)</li><li>• Temperature Requirement:-40~70℃</li></ul> |  |                                           |  |                                                                                                                                                                                                                                                          |  |  |                                                                                                                                                     |  |  |

### ITV Series Electro-pneumatic Regulator

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ITV                        |                                  |                                                                                                                         | 3                                                                                                             | 0 | 1 | 0                                | -                                     | 0 | 1 | 2 | S |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---|---|----------------------------------|---------------------------------------|---|---|---|---|
|                                                                                                                                                                                                                                                                                                                                                                                                                         | Type                       | Power Voltage                    |                                                                                                                         | Monitoring Output                                                                                             |   |   | Type                             | Cable Connector                       |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1:1000<br>2:2000<br>3:3000 | 0:DC24V<br>1:DC12~15V            |                                                                                                                         | 0:without<br>1:analog output DC1~5V<br>2:switch output(NPN)<br>3:switch output(PNP)<br>4:analog output 4~20mA |   |   | 1:1/8<br>2:1/4<br>3:3/8<br>4:1/2 | S:straight type<br>L:right angle type |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Series Code                | Pressure Range                   | Input Signal                                                                                                            |                                                                                                               |   |   |                                  |                                       |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | 1:0.1MPa<br>3:0.5MPa<br>5:0.9MPa | 0:current type(4~20mA)<br>1:current type(0~20mA)<br>2:voltage type(DC0~5V)<br>3:voltage type(DC0~10V)<br>4:preset input |                                                                                                               |   |   |                                  |                                       |   |   |   |   |
| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |                                                                                                                         |                                                                                                               |   |   |                                  |                                       |   |   |   |   |
| <div><div><ul style="list-style-type: none"><li>• For the stepless control of air pressure in proportion to electrical signals</li><li>• Min Supply Pressure:Set Pressure+0.1MPa</li><li>• Max Supply Pressure:0.2MPa or 1.0MPa</li><li>• Flow rate: Max. approx. 5 times (Compared with the existing model)</li></ul></div><div><ul style="list-style-type: none"><li>• Sensitivity: ±0.2% F.S. or less</li><li>• Linearity: ±1% F.S. or less</li><li>• Hysteresis: 0.5% F.S. or less</li></ul></div></div> |                            |                                  |                                                                                                                         |                                                                                                               |   |   |                                  |                                       |   |   |   |   |



## RB Series Shock Absorber

| Product Images                                                                                                                                                                                                                                                | RB          | C                                                 | 14                | 12                         | S                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|-------------------|----------------------------|---------------------------------------------|
|                                                                                                                                                                              | Series Code | Type                                              | External Diameter | Stroke(mm)                 | Accessories                                 |
|                                                                                                                                                                                                                                                               |             | Unmarked: standard type<br>C: with cushioning pad |                   | 4, 5, 6, 7, 11, 12, 15, 25 | S: with limit nut<br>J: add one hexagon nut |
| Specifications                                                                                                                                                                                                                                                |             |                                                   |                   |                            |                                             |
| <ul style="list-style-type: none"> <li>Max Energy Absorption: 0.5-147J</li> <li>Max Operating Frequency(cycle/min): 80, 70, 45, 25, 10</li> <li>Max Allowable Thrust(N): 150, 245, 422, 814, 1961, 2942</li> <li>Temperature Requirement: -10~80°C</li> </ul> |             |                                                   |                   |                            |                                             |

## AC Series Shock Absorber

| Product Images                                                                                                                                                                                                                  | AC                                                                                                                          | 14                | 16                                      | 1                                                | N                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                | Series Code                                                                                                                 | External Diameter | Stroke(mm)                              | Cushioning Cap                                   | Cushioning Cap                                                                     |
|                                                                                                                                                                                                                                 | AC: automatic compensation type<br>ACA: standard automatic compensation type<br>ACJ: adjustable automatic compensation type |                   | 5, 6, 8, 10, 12, 16, 20, 25, 40, 50, 60 | 1: high speed<br>2: medium speed<br>3: low speed | Unmarked: with plastic cushioning cap<br>F: with iron cushioning cap<br>N: without |
| Specifications                                                                                                                                                                                                                  |                                                                                                                             |                   |                                         |                                                  |                                                                                    |
| <ul style="list-style-type: none"> <li>Max Energy Absorption(J): 2, 3, 4, 5, 15, 20, 40, 60, 80, 120, 250</li> <li>Max Operating Frequency(cycle/min): 80, 70, 45, 25, 10</li> <li>Temperature Requirement: -10~80°C</li> </ul> |                                                                                                                             |                   |                                         |                                                  |                                                                                    |

## AD Series Shock Absorber

| Product Images                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AD                                                        | 14                | 16                                      | 1                                                | N                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                             | Series Code                                               | External Diameter | Stroke(mm)                              | Cushioning Cap                                   | Cushioning Cap                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AD: adjustable type<br>ACD: bidirectional cushioning type |                   | 5, 6, 8, 10, 12, 16, 20, 25, 40, 50, 60 | 1: high speed<br>2: medium speed<br>3: low speed | Unmarked: with plastic cushioning cap<br>F: with iron cushioning cap<br>N: without |
| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |                   |                                         |                                                  |                                                                                    |
| <ul style="list-style-type: none"> <li>Excellent and stable deceleration and shock absorption performance; resistance automatically adjusts under impact load.</li> <li>Integrated high-strength structure with full-threaded body for easy installation and enhanced heat dissipation; capable of withstanding extremely high pressure.</li> <li>High-hardness piston rod improves impact resistance and corrosion resistance, ensuring reliable operation under harsh conditions.</li> </ul> |                                                           |                   |                                         |                                                  |                                                                                    |

## SR Series Shock Absorber

| Product Images                                                                                                                                                                                                                  | SR                             | 12         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|
|                                                                                                                                              | Series Code                    | Stroke(mm) |
|                                                                                                                                                                                                                                 | SR: precision speed controller | 30, 60     |
| Specifications                                                                                                                                                                                                                  |                                |            |
| <ul style="list-style-type: none"> <li>Max Energy Absorption(J): 2, 3, 4, 5, 15, 20, 40, 60, 80, 120, 250</li> <li>Max Operating Frequency(cycle/min): 80, 70, 45, 25, 10</li> <li>Temperature Requirement: -10~80°C</li> </ul> |                                |            |

## Silencer/Tubing Cutter

| Product Images                                                                      | Thread Model | M5     | 1/8  | 1/4  | 3/8  | 1/2 | Product Images                                                                      | Thread Model           | JCQ                          |
|-------------------------------------------------------------------------------------|--------------|--------|------|------|------|-----|-------------------------------------------------------------------------------------|------------------------|------------------------------|
|  | DSP          |        | 01-G | 02-G | 03-G |     |  | Available Materials    | Nylon, Soft Nylon, PU Tubing |
|                                                                                     | BSL          |        | 01   | 02   | 03   | 04  |                                                                                     | Maximum Outer Diameter | 16mm                         |
|                                                                                     | BSLM         | M5×0.8 | 01   | 02   | 03   | 04  |                                                                                     |                        |                              |
|                                                                                     | BESL         |        | 01   | 02   | 03   | 04  |                                                                                     |                        |                              |

## XC95 Series Air Tubing

| Product Images                                                                      | XC95B         | 060                                                                                       | 040                                                                                                                               | 100M                               | BU                                                                                                                 |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|  | Series Code   | Outer Diameter                                                                            | Inner Diameter                                                                                                                    | Length                             | Color                                                                                                              |
|                                                                                     | XC95B<br>XC95 | 040: Φ4.0mm<br>060: Φ6.0mm<br>080: Φ8.0mm<br>100: Φ10.0mm<br>120: Φ12.0mm<br>160: Φ16.0mm | 025: Φ2.5mm<br>040: Φ4.0mm<br>050: Φ5.0mm<br>055: Φ5.5mm<br>060: Φ6.0mm<br>065: Φ6.5mm<br>080: Φ8.0mm<br>100: Φ10mm<br>120: Φ12mm | 100M: 100m/roll<br>200M: 200m/roll | BU: blue<br>BK: black<br>GE: orange<br>CR: transparent<br>WH: white<br>CB: transparent blue<br>R: red<br>Y: yellow |

## PA Series Nylon Tubing

| Product Images                                                                        | PA12                           | 060                                                                       | 040                                                                   | 100M                               | BU                                                                                                       |
|---------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------|
|  | Series Code                    | Outer Diameter                                                            | Inner Diameter                                                        | Length                             | Color                                                                                                    |
|                                                                                       | PA12: Nylon 12<br>PA6: Nylon 6 | 040: Φ4.0mm<br>060: Φ6.0mm<br>080: Φ8.0mm<br>100: Φ10.0mm<br>120: Φ12.0mm | 025: Φ2.5mm<br>040: Φ4.0mm<br>060: Φ6.0mm<br>075: Φ7.5mm<br>090: Φ9mm | 100M: 100m/roll<br>200M: 200m/roll | BU: blue<br>BK: black<br>GE: orange<br>N: natural color<br>WH: white<br>GN: green<br>R: red<br>Y: yellow |

## UN54D Series Flame-retardant Tubing

| Product Images                                                                        | UN54D                 | 060                                                        | 040                                                      | 100M            | BU                                                                      |
|---------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------|----------------------------------------------------------|-----------------|-------------------------------------------------------------------------|
|  | Series Code           | Outer Diameter                                             | Inner Diameter                                           | Length          | Color                                                                   |
|                                                                                       | UN54D: Hardness 54D±3 | 060: Φ6.0mm<br>080: Φ8.0mm<br>100: Φ10.0mm<br>120: Φ12.0mm | 040: Φ4.0mm<br>050: Φ5.0mm<br>065: Φ6.5mm<br>080: Φ8.0mm | 100M: 100m/roll | BU: blue<br>BK: black<br>GE: orange<br>WH: white<br>R: red<br>Y: yellow |

## Mini Quick Fitting

| Product Images                                                                    | Model    | Specification | Model    | Specification | Model    | Specification |
|-----------------------------------------------------------------------------------|----------|---------------|----------|---------------|----------|---------------|
|  | CNPC3-M3 | Basic Type    | CNPE4-M5 | Mini Tee      | CNPL3-M3 | Elbow Fitting |
|                                                                                   | CNPC3-M4 |               | CNPE4-M6 |               | CNPL3-M4 |               |
|                                                                                   | CNPC3-M5 |               | CNPE6-M5 |               | CNPL3-M5 |               |
|                                                                                   | CNPC4-M3 |               | CNPE6-M6 |               | CNPL4-M3 |               |
|                                                                                   | CNPC4-M4 |               |          |               | CNPL4-M4 |               |
|                                                                                   | CNPC4-M5 |               |          |               | CNPL4-M5 |               |
|                                                                                   | CNPC4-M6 |               |          |               | CNPL4-M6 |               |
|                                                                                   | CNPC6-M4 |               |          |               | CNPL6-M4 |               |
|                                                                                   | CNPC6-M5 |               |          |               | CNPL6-M5 |               |
|                                                                                   | CNPC6-M6 |               |          |               | CNPL6-M6 |               |

| Product Images                                                                    | Model   | Specification | Model   | Specification | Model   | Specification |
|-----------------------------------------------------------------------------------|---------|---------------|---------|---------------|---------|---------------|
|  | CPC3-M3 | Basic Type    | CPE4-M5 | Mini Tee      | CPL3-M3 | Elbow Fitting |
|                                                                                   | CPC3-M4 |               | CPE4-M6 |               | CPL3-M4 |               |
|                                                                                   | CPC3-M5 |               | CPE6-M5 |               | CPL3-M5 |               |
|                                                                                   | CPC4-M3 |               | CPE6-M6 |               | CPL4-M3 |               |
|                                                                                   | CPC4-M4 |               |         |               | CPL4-M4 |               |
|                                                                                   | CPC4-M5 |               |         |               | CPL4-M5 |               |
|                                                                                   | CPC4-M6 |               |         |               | CPL4-M6 |               |
|                                                                                   | CPC6-M4 |               |         |               | CPL6-M4 |               |
|                                                                                   | CPC6-M5 |               |         |               | CPL6-M5 |               |
|                                                                                   | CPC6-M6 |               |         |               | CPL6-M6 |               |

## Quick Fitting KQ2 Series

| KQ2H Series                                                                                                                                                                                                                                   | KQ2S Series                                                                                                                                                                                                                        | KQ2H Series                                                                         | KQ2S Series                                                                          | KQ2R Series                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Specification: External Thread                                                                                                                                                                                                                | Specification: Internal Hexagon                                                                                                                                                                                                    | Specification: Equal Diameter                                                       | Specification: Reducer                                                               | Specification: Plug-in Reducer Fitting                                                                        |
|                                                                                                                                                            |                                                                                                                                                 |  |  |                          |
| Model                                                                                                                                                                                                                                         | Model                                                                                                                                                                                                                              | Model                                                                               | Model                                                                                | Model                                                                                                         |
| KQ2H04-M5 KQ2H06-03S KQ2H12-02S KQ2H04-M6 KQ2H08-01S KQ2H12-03S KQ2H04-01S KQ2H08-02S KQ2H12-04S KQ2H04-02S KQ2H08-03S KQ2H16-02S KQ2H06-M5 KQ2H10-01S KQ2H16-03S KQ2H06-M6 KQ2H10-02S KQ2H16-04S KQ2H06-01S KQ2H10-03S KQ2H06-02S KQ2H10-04S | KQ2S04-M5 KQ2S08-01S KQ2S12-03S KQ2S04-M6 KQ2S08-02S KQ2S12-04S KQ2S04-01S KQ2S08-03S KQ2S16-02S KQ2S04-02S KQ2S10-01S KQ2S16-03S KQ2S06-M5 KQ2S10-02S KQ2S16-04S KQ2S06-M6 KQ2S10-03S KQ2S06-01S KQ2S10-04S KQ2S06-02S KQ2S12-02S | KQ2H04-00 KQ2H06-00 KQ2H08-00 KQ2H10-00 KQ2H08-10 KQ2H12-00 KQ2H16-00               | KQ2H04-06 KQ2H04-08 KQ2H06-08 KQ2H06-10 KQ2H08-10 KQ2H08-12 KQ2H10-12 KQ2H12-16      | KQ2R04-06 KQ2R08-12 KQ2R04-08 KQ2R10-12 KQ2R04-10 KQ2R06-06 KQ2R06-08 KQ2R06-10 KQ2R06-12 KQ2R06-12 KQ2R08-10 |

| KQ2L Series                                                                                                                                                                                                                                   | KQ2W Series                                                                                                                                                                                                                                   | KQ2E Series                                                                         | KQ2E Series                                                                                                                                           | KQ2LE Series                                                                          |
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| Specification: External Thread Elbow Fitting                                                                                                                                                                                                  | Specification: Extended Elbow Fitting                                                                                                                                                                                                         | Specification: Bulkhead Fitting                                                     | Specification: Internal Thread Bulkhead Fitting                                                                                                       | Specification: Bulkhead Elbow Fitting                                                 |
|                                                                                                                                                            |                                                                                                                                                            |  |                                                                   |  |
| Model                                                                                                                                                                                                                                         | Model                                                                                                                                                                                                                                         | Model                                                                               | Model                                                                                                                                                 | Model                                                                                 |
| KQ2L04-M5 KQ2L06-03S KQ2L12-02S KQ2L04-M6 KQ2L08-01S KQ2L12-03S KQ2L04-01S KQ2L08-02S KQ2L12-04S KQ2L04-02S KQ2L08-03S KQ2L16-02S KQ2L06-M5 KQ2L10-01S KQ2L16-03S KQ2L06-M6 KQ2L10-02S KQ2L16-04S KQ2L06-01S KQ2L10-03S KQ2L06-02S KQ2L10-04S | KQ2W04-M5 KQ2W06-03S KQ2W12-02S KQ2W04-M6 KQ2W08-01S KQ2W12-03S KQ2W04-01S KQ2W08-02S KQ2W12-04S KQ2W04-02S KQ2W08-03S KQ2W16-02S KQ2W06-M5 KQ2W10-01S KQ2W16-03S KQ2W06-M6 KQ2W10-02S KQ2W16-04S KQ2W06-01S KQ2W10-03S KQ2W06-02S KQ2W10-04S | KQ2E04-00 KQ2E06-00 KQ2E08-00 KQ2E10-00 KQ2E12-00 KQ2E16-00                         | KQ2E04-M5 KQ2E08-03 KQ2E04-01 KQ2E10-02 KQ2E04-02 KQ2E10-03 KQ2E06-01 KQ2E12-03 KQ2E06-02 KQ2E12-04 KQ2E06-03 KQ2E16-03 KQ2E08-01 KQ2E16-04 KQ2E08-02 | KQ2LE04-00 KQ2LE06-00 KQ2LE08-00 KQ2LE10-00 KQ2LE12-00 KQ2LE16-00                     |

| KQ2F Series                                                                                                                                                                                                       | KQ2LF Series                                                                                                                                                                                                                           | KQ2LU Series                                                                                                                                                                                                                                            | KQ2D Series                                                                                                                                                                                                                        | KQ2LU Series                                                                                                                                                                                                                                            |
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| Specification: Straight Fitting                                                                                                                                                                                   | Specification: Elbow Fitting                                                                                                                                                                                                           | Specification: External Thread Offset Tee                                                                                                                                                                                                               | Specification: External Thread Straight Tee                                                                                                                                                                                        | Specification: Offset Tee                                                                                                                                                                                                                               |
|                                                                                                                                |                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                 |                                                                                                                                                                      |
| Model                                                                                                                                                                                                             | Model                                                                                                                                                                                                                                  | Model                                                                                                                                                                                                                                                   | Model                                                                                                                                                                                                                              | Model                                                                                                                                                                                                                                                   |
| KQ2F04-M5 KQ2F08-02 KQ2F12-04 KQ2F04-01 KQ2F08-03 KQ2F16-02 KQ2F04-02 KQ2F10-01 KQ2F16-03 KQ2F06-M5 KQ2F10-02 KQ2F16-04 KQ2F06-01 KQ2F10-03 KQ2F16-04 KQ2F06-02 KQ2F10-04 KQ2F06-03 KQ2F12-02 KQ2F08-01 KQ2F12-03 | KQ2LF04-M5 KQ2LF08-02 KQ2LF12-04 KQ2LF04-01 KQ2LF08-03 KQ2LF16-02 KQ2LF04-02 KQ2LF10-01 KQ2LF16-03 KQ2LF06-M5 KQ2LF10-02 KQ2LF16-04 KQ2LF06-01 KQ2LF10-03 KQ2LF16-04 KQ2LF06-02 KQ2LF10-04 KQ2LF06-03 KQ2LF12-02 KQ2LF08-01 KQ2LF12-03 | KQ2LU04-M5 KQ2LU06-03S KQ2LU12-02S KQ2LU04-M6 KQ2LU08-01S KQ2LU12-03S KQ2LU04-01S KQ2LU08-02S KQ2LU12-04S KQ2LU04-02S KQ2LU08-03S KQ2LU12-04S KQ2LU06-M5 KQ2LU10-01S KQ2LU12-04S KQ2LU06-M6 KQ2LU10-02S KQ2LU06-01S KQ2LU10-03S KQ2LU06-02S KQ2LU10-04S | KQ2D04-M5 KQ2D06-03S KQ2D12-02S KQ2D04-M6 KQ2D08-01S KQ2D12-03S KQ2D04-01S KQ2D08-02S KQ2D12-04S KQ2D04-02S KQ2D08-03S KQ2D12-04S KQ2D06-M5 KQ2D10-01S KQ2D12-04S KQ2D06-M6 KQ2D10-02S KQ2D06-01S KQ2D10-03S KQ2D06-02S KQ2D10-04S | KQ2LU04-M5 KQ2LU06-03S KQ2LU12-02S KQ2LU04-M6 KQ2LU08-01S KQ2LU12-03S KQ2LU04-01S KQ2LU08-02S KQ2LU12-04S KQ2LU04-02S KQ2LU08-03S KQ2LU12-04S KQ2LU06-M5 KQ2LU10-01S KQ2LU12-04S KQ2LU06-M6 KQ2LU10-02S KQ2LU06-01S KQ2LU10-03S KQ2LU06-02S KQ2LU10-04S |

| KQ2D Series                                                                                                                                                                                                                        | KQ2T Series                                                                                                                                                                                                                        | KQ2T Series                                                                         | KQ2T Series                                                                         | KQ2T Series                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Specification: Straight Tee                                                                                                                                                                                                        | Specification: External Thread                                                                                                                                                                                                     | Specification: Tee                                                                  | Specification: Single Reducer Tee                                                   | Specification: Double Reducer Tee                                                   |
|                                                                                                                                                 |                                                                                                                                                 |  |  |  |
| Model                                                                                                                                                                                                                              | Model                                                                                                                                                                                                                              | Model                                                                               | Model                                                                               | Model                                                                               |
| KQ2D04-M5 KQ2D06-03S KQ2D12-02S KQ2D04-M6 KQ2D08-01S KQ2D12-03S KQ2D04-01S KQ2D08-02S KQ2D12-04S KQ2D04-02S KQ2D08-03S KQ2D12-04S KQ2D06-M5 KQ2D10-01S KQ2D12-04S KQ2D06-M6 KQ2D10-02S KQ2D06-01S KQ2D10-03S KQ2D06-02S KQ2D10-04S | KQ2T04-M5 KQ2T06-03S KQ2T12-02S KQ2T04-M6 KQ2T08-01S KQ2T12-03S KQ2T04-01S KQ2T08-02S KQ2T12-04S KQ2T04-02S KQ2T08-03S KQ2T12-04S KQ2T06-M5 KQ2T10-01S KQ2T12-04S KQ2T06-M6 KQ2T10-02S KQ2T06-01S KQ2T10-03S KQ2T06-02S KQ2T10-04S | KQ2T04-00 KQ2T06-00 KQ2T08-00 KQ2T10-00 KQ2T12-00 KQ2T16-00                         | KQ2T06-04 KQ2T08-06 KQ2T10-08 KQ2T12-10 KQ2T16-12                                   | KQ2T04-06 KQ2T06-08 KQ2T08-10 KQ2T10-12 KQ2T16-12                                   |

| KQ2Y Series                                                                                                                                                                                                                        | KQ2U Series                                                                                                                                                                                                                        | KQ2U Series                                                                           | KQ2U Series                                                                           | KQ2TW Series                                                                          |
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| Specification: External Thread                                                                                                                                                                                                     | Specification: U-type Fitting                                                                                                                                                                                                      | Specification: Equal Type                                                             | Specification: Reducer Type                                                           | Specification: Basic Type                                                             |
|                                                                                                                                               |                                                                                                                                               |  |  |  |
| Model                                                                                                                                                                                                                              | Model                                                                                                                                                                                                                              | Model                                                                                 | Model                                                                                 | Model                                                                                 |
| KQ2Y04-M5 KQ2Y06-03S KQ2Y12-02S KQ2Y04-M6 KQ2Y08-01S KQ2Y12-03S KQ2Y04-01S KQ2Y08-02S KQ2Y12-04S KQ2Y04-02S KQ2Y08-03S KQ2Y12-04S KQ2Y06-M5 KQ2Y10-01S KQ2Y12-04S KQ2Y06-M6 KQ2Y10-02S KQ2Y06-01S KQ2Y10-03S KQ2Y06-02S KQ2Y10-04S | KQ2U04-M5 KQ2U08-01S KQ2U12-03S KQ2U04-M6 KQ2U08-02S KQ2U12-04S KQ2U04-01S KQ2U08-03S KQ2U12-04S KQ2U04-02S KQ2U08-03S KQ2U12-04S KQ2U06-M5 KQ2U10-01S KQ2U12-04S KQ2U06-M6 KQ2U10-02S KQ2U06-01S KQ2U10-03S KQ2U06-02S KQ2U10-04S | KQ2U04-00 KQ2U06-00 KQ2U08-00 KQ2U10-00 KQ2U12-00                                     | KQ2U04-06 KQ2U06-08 KQ2U08-10 KQ2U10-12                                               | KQ2TW04-00 KQ2TW06-00 KQ2TW08-00 KQ2TW10-00 KQ2TW12-00                                |

| KQ2TX Series                                                                          | KQ2TY Series                                                                          | KQ2TZ Series                                                                          | KQ2UD Series                                                                          | KQ2UD Series                                                                                |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Specification: Single Reducer                                                         | Specification: Double Reducer                                                         | Specification: Three Reducer                                                          | Specification: Reducer Type                                                           | Specification: External Thread                                                              |
|  |  |  |  |        |
| Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                       |
| KQ2TX06-04 KQ2TX08-06 KQ2TX10-08 KQ2TX12-10                                           | KQ2TY06-04 KQ2TY08-06 KQ2TY10-08 KQ2TY12-10                                           | KQ2TZ06-04 KQ2TZ08-06 KQ2TZ10-08 KQ2TZ12-10                                           | KQ2UD04-06 KQ2UD06-08                                                                 | KQ2UD04-M5 KQ2UD04-M6 KQ2UD04-01S KQ2UD04-02S KQ2UD06-M5 KQ2UD06-M6 KQ2UD06-01S KQ2UD06-02S |

|                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>KQ2L Series</b><br>Specification:Equal Diameter<br><br>Model<br>KQ2L04-00<br>KQ2L06-00<br>KQ2L08-00<br>KQ2L10-00<br>KQ2L12-00                                                                                                                                                         | <b>KQ2L Series</b><br>Specification:Reducer Plug-in Fitting<br><br>Model<br>KQ2L04-06<br>KQ2L04-08<br>KQ2L06-08<br>KQ2L06-10<br>KQ2L08-10<br>KQ2L08-12<br>KQ2L10-12<br>KQ2L12-16                                                                                                               | <b>KQ2L Series</b><br>Specification:Equal Diameter Plug-in Fitting<br><br>Model<br>KQ2L04-99<br>KQ2L06-99<br>KQ2L08-99<br>KQ2L10-99<br>KQ2L12-99                                                                                                                                                 | <b>KQ2W Series</b><br>Specification:Equal Diameter Extended Plug-in Fitting<br><br>Model<br>KQ2W04-99<br>KQ2W06-99<br>KQ2W08-99<br>KQ2W10-99<br>KQ2W12-99                                                                                                                                              | <b>KQ2U Series</b><br>Specification:Basic Type<br><br>Model<br>KQ2U04-99<br>KQ2U06-99<br>KQ2U08-99<br>KQ2U10-99<br>KQ2U12-99                                                                                                                                                           |
| <b>KQ2X Series</b><br>Specification:Reducer Type<br><br>Model<br>KQ2X04-06<br>KQ2X06-08<br>KQ2X08-10<br>KQ2X10-12                                                                                                                                                                        | <b>KQ2UW Series</b><br>Specification:Extended Type<br><br>Model<br>KQ2UW04-99<br>KQ2UW06-99<br>KQ2UW08-99<br>KQ2UW10-99<br>KQ2UW12-99                                                                                                                                                          | <b>KQ2XD Series</b><br>Specification:Five-way,Copper Pipe<br><br>Model<br>KQ2XD04-04<br>KQ2XD04-06<br>KQ2XD04-08<br>KQ2XD06-06<br>KQ2XD06-08<br>KQ2XD06-10<br>KQ2XD06-12                                                                                                                         | <b>KQ2V Series</b><br>Specification:External Hexagon<br><br>Model<br>KQ2V04-M5 KQ2V08-01S KQ2Y12-02S<br>KQ2V04-M6 KQ2V08-02S KQ2Y12-03S<br>KQ2V04-01S KQ2V08-03S KQ2Y12-04S<br>KQ2V04-02S KQ2V10-01S<br>KQ2V06-M5 KQ2V10-02S<br>KQ2V06-M6 KQ2V10-03S<br>KQ2V06-01S KQ2V12-03S<br>KQ2V06-02S KQ2V12-04S | <b>KQ2VS Series</b><br>Specification:Internal Hexagon<br><br>Model<br>KQ2VS04-M5 KQ2VS08-01S<br>KQ2VS04-M6 KQ2VS08-02S<br>KQ2VS04-01S KQ2VS08-03S<br>KQ2VS04-02S KQ2VS10-01S<br>KQ2VS06-M5 KQ2VS10-02S<br>KQ2VS06-M6 KQ2VS10-03S<br>KQ2VS06-01S KQ2VS12-02S<br>KQ2VS06-02S KQ2VS12-03S |
| <b>KQ2VF Series</b><br>Specification:Internal Hexagon<br><br>Model<br>KQ2VF04-M5 KQ2VF10-01S<br>KQ2VF04-M6 KQ2VF10-02S<br>KQ2VF04-01S KQ2VF12-02S<br>KQ2VF06-M5 KQ2VF12-03S<br>KQ2VF06-M6<br>KQ2VF06-01S<br>KQ2VF08-01S<br>KQ2VF08-02S                                                 | <b>KQ2VD Series</b><br>Specification:Two Groups Fitting<br><br>Model<br>KQ2VD04-01S KQ2VD08-03S<br>KQ2VD04-02S KQ2VD08-04S<br>KQ2VD04-03S KQ2VD10-02S<br>KQ2VD06-01S KQ2VD10-03S<br>KQ2VD06-02S KQ2VD10-04S<br>KQ2VD06-03S KQ2VD12-02S<br>KQ2VD08-01S KQ2VD12-03S<br>KQ2VD08-02S KQ2VD12-04S | <b>KQ2VT Series</b><br>Specification:Three Groups Fitting<br><br>Model<br>KQ2VT04-01S KQ2VT08-03S<br>KQ2VT04-02S KQ2VT08-04S<br>KQ2VT04-03S KQ2VT10-02S<br>KQ2VT06-01S KQ2VT10-03S<br>KQ2VT06-02S KQ2VT10-04S<br>KQ2VT06-03S KQ2VT12-02S<br>KQ2VT08-01S KQ2VT12-03S<br>KQ2VT08-02S KQ2VT12-04S | <b>KQ2C Series</b><br>Specification:Single-Side Fitting<br><br>Model<br>KQ2C-04<br>KQ2C-06<br>KQ2C-08<br>KQ2C-10<br>KQ2C-12                                                                                                                                                                          | <b>KQ2Z Series</b><br>Specification:External Hexagon<br><br>Model<br>KQ2Z04-M5 KQ2Z08-01S<br>KQ2Z04-M6 KQ2Z08-02S<br>KQ2Z04-01S KQ2Z08-03S<br>KQ2Z04-02S KQ2Z10-01S<br>KQ2Z06-M5 KQ2Z10-02S<br>KQ2Z06-M6 KQ2Z10-03S<br>KQ2Z06-01S KQ2Z12-02S<br>KQ2Z06-02S KQ2Z12-03S                |
| <b>KQ2ZS Series</b><br>Specification:Internal Hexagon<br><br>Model<br>KQ2ZS04-M5 KQ2ZS08-01S<br>KQ2ZS04-M6 KQ2ZS08-02S<br>KQ2ZS04-01S KQ2ZS08-03S<br>KQ2ZS04-02S KQ2ZS10-01S<br>KQ2ZS06-M5 KQ2ZS10-02S<br>KQ2ZS06-M6 KQ2ZS10-03S<br>KQ2ZS06-01S KQ2ZS12-02S<br>KQ2ZS06-02S KQ2ZS12-03S | <b>KQ2ZF Series</b><br>Specification:External&Internal Thread<br><br>Model<br>KQ2ZF04-M5 KQ2ZF10-01S<br>KQ2ZF04-M6 KQ2ZF10-02S<br>KQ2ZF04-01S KQ2ZF12-02S<br>KQ2ZF06-M5 KQ2ZF12-03S<br>KQ2ZF06-M6<br>KQ2ZF06-01S<br>KQ2ZF08-01S<br>KQ2ZF08-02S                                               | <b>KQ2ZD Series</b><br>Specification:Two Groups Fitting<br><br>Model<br>KQ2ZD04-01S KQ2ZD08-03S<br>KQ2ZD04-02S KQ2ZD08-04S<br>KQ2ZD04-03S KQ2ZD10-02S<br>KQ2ZD06-01S KQ2ZD10-03S<br>KQ2ZD06-02S KQ2ZD10-04S<br>KQ2ZD06-03S KQ2ZD12-02S<br>KQ2ZD08-01S KQ2ZD12-03S<br>KQ2ZD08-02S KQ2ZD12s-04S  | <b>KQ2ZT Series</b><br>Specification:Three Groups Fitting<br><br>Model<br>KQ2ZT04-01S KQ2ZT08-03S<br>KQ2ZT04-02S KQ2ZT08-04S<br>KQ2ZT04-03S KQ2ZT10-02S<br>KQ2ZT06-01S KQ2ZT10-03S<br>KQ2ZT06-02S KQ2ZT10-04S<br>KQ2ZT06-03S KQ2ZT12-02S<br>KQ2ZT08-01S KQ2ZT12-03S<br>KQ2ZT08-02S KQ2ZT12-04S       | <b>KQ2P Series</b><br>Specification:Straight Plug<br><br>Model<br>KQ2P-04<br>KQ2P-06<br>KQ2P-08<br>KQ2P-10<br>KQ2P-12                                                                                                                                                                |

## KJ Series Mini Straight Fitting

|                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                         |
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| <b>KJH Series</b><br>Specification:External Thread<br><br>Model<br>KJH03-M3 KJH04-M3<br>KJH03-M5 KJH04-M5<br>KJH03-M6 KJH04-M6<br>KJH03-01S KJH04-01S<br>KJH23-M3 KJH06-M5<br>KJH23-M5 KJH06-M6<br>KJH23-M6 KJH06-01S<br>KJH23-01S                | <b>KJS Series</b><br>Specification:Internal Hexagon<br><br>Model<br>KJS03-M3 KJS06-M5<br>KJS03-M5 KJS06-M6<br>KJS23-M3 KJS06-01S<br>KJS23-M5<br>KJS04-M3<br>KJS04-M5<br>KJS04-M6<br>KJS04-01S                                             | <b>KJF Series</b><br>Specification:Internal Thread<br><br>Model<br>KJF03-M3 KJF06-M5<br>KJF03-M5 KJF06-M6<br>KJF23-M3 KJF06-01S<br>KJF23-M5<br>KJF04-M3<br>KJF04-M5<br>KJF04-M6<br>KJF04-01S | <b>KJH Series</b><br>Specification:Equal Diameter<br><br>Model<br>KJH03-00<br>KJH23-00<br>KJH04-00<br>KJH06-00                                                                                                                            | <b>KJH Series</b><br>Specification:Reducer<br><br>Model<br>KJH03-04<br>KJH23-04<br>KJH03-06<br>KJH23-06                                                              |
| <b>KJL Series</b><br>Specification:External Thread, Elbow Fitting<br><br>Model<br>KJL03-M3 KJL04-M3<br>KJL03-M5 KJL04-M5<br>KJL03-M6 KJL04-M6<br>KJL03-01S KJL04-01S<br>KJL23-M3 KJL06-M5<br>KJL23-M5 KJL06-M6<br>KJL23-M6 KJL06-01S<br>KJL23-01S | <b>KJW Series</b><br>Specification:Extended Elbow Fitting<br><br>Model<br>KJW03-M3 KJW04-M3<br>KJW03-M5 KJW04-M5<br>KJW03-M6 KJW04-M6<br>KJW03-01S KJW04-01S<br>KJW23-M3 KJW06-M5<br>KJW23-M5 KJW06-M6<br>KJW23-M6 KJW06-01S<br>KJW23-01S | <b>KJY Series</b><br>Specification:External Thread<br><br>Model<br>KJY04-M3<br>KJY04-M5<br>KJY04-M6<br>KJY04-01S<br>KJY06-M5<br>KJY06-M6<br>KJY06-01S                                        | <b>KJT Series</b><br>Specification:T-type External Thread<br><br>Model<br>KJT03-M3 KJT04-M3<br>KJT03-M5 KJT04-M5<br>KJT03-M6 KJT04-M6<br>KJT03-01S KJT04-01S<br>KJT23-M3 KJT06-M5<br>KJT23-M5 KJT06-M6<br>KJT23-M6 KJT06-01S<br>KJT23-01S | <b>KJU Series</b><br>Specification:U-type External Thread Fitting<br><br>Model<br>KJU04-M3<br>KJU04-M5<br>KJU04-M6<br>KJU04-01S<br>KJU06-M5<br>KJU06-M6<br>KJU06-01S |
| <b>KJT Series</b><br>Specification:Equal Diameter<br><br>Model<br>KJT04-00<br>KJT06-00                                                                                                                                                          | <b>KJT Series</b><br>Specification:Reducer<br><br>Model<br>KJT04-06                                                                                                                                                                     | <b>KJU Series</b><br>Specification:Basic Type<br><br>Model<br>KJU04-00<br>KJU06-00                                                                                                         | <b>KJU Series</b><br>Specification:Reducer Type<br><br>Model<br>KJU04-06                                                                                                                                                                | <b>KJU Series</b><br>Specification:Plug-in Fitting<br><br>Model<br>KJU04-99<br>KJU06-99                                                                            |
| <b>KJX Series</b><br>Specification:Reducing Plug-in Fitting<br><br>Model<br>KJX04-03<br>KJX04-23<br>KJX04-06<br>KJX06-04                                                                                                                        | <b>KJE Series</b><br>Specification:Bulkhead Fitting<br><br>Model<br>KJE03-00<br>KJE23-00<br>KJE04-00<br>KJE06-00                                                                                                                        | <b>KJL Series</b><br>Specification:Equal Diameter Elbow Fitting<br><br>Model<br>KJL03-00<br>KJL23-00<br>KJL04-00<br>KJL06-00                                                               |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                         |

## AS Series Speed Control Valve

| AS Series                                                                                                                                                                                                                                                                                      | AS Series                                                                                                                                                                                                                                                                                      | AS Series                                                                                                                                                                                                                                                                                      | AS Series                                                                                                                                                                                                                                                                                      | AS Series                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification: Limit Out Type                                                                                                                                                                                                                                                                  | Specification: Limit In Type                                                                                                                                                                                                                                                                   | Specification: Limit Out&Swivel Type                                                                                                                                                                                                                                                           | Specification: Limit In&Swivel Type                                                                                                                                                                                                                                                            | Specification: Tube Type                                                                                                                                 |
|                                                                                                                                                                                                               |                                                                                                                                                                                                               |                                                                                                                                                                                                               |                                                                                                                                                                                                              |                                                                       |
| Model                                                                                                                                                                                                                                                                                          | Model                                                                                                                                                                                                                                                                                          | Model                                                                                                                                                                                                                                                                                          | Model                                                                                                                                                                                                                                                                                          | Model                                                                                                                                                    |
| AS1201F-M3-04 AS3201F-03-06S AS3201F-03-12S<br>AS1201F-M5-04 AS2201F-01-08S AS4201F-04-12S<br>AS2201F-01-04S AS2201F-02-08S<br>AS2201F-02-04S AS2201F-03-08S<br>AS1201F-M3-06 AS2201F-01-10S<br>AS1201F-M5-06 AS2201F-02-10S<br>AS2201F-01-06S AS2201F-03-10S<br>AS2201F-02-06S AS4201F-04-10S | AS1211F-M3-04 AS3211F-03-06S AS3211F-03-12S<br>AS1211F-M5-04 AS2211F-01-08S AS4211F-04-12S<br>AS2211F-01-04S AS2211F-02-08S<br>AS2211F-02-04S AS2211F-03-08S<br>AS1211F-M3-06 AS2211F-01-10S<br>AS1211F-M5-06 AS2211F-02-10S<br>AS2211F-01-06S AS2211F-03-10S<br>AS2211F-02-06S AS4211F-04-10S | AS1301F-M3-04 AS3301F-03-06S AS3301F-03-12S<br>AS1301F-M5-04 AS2301F-01-08S AS4301F-04-12S<br>AS2301F-01-04S AS2301F-02-08S<br>AS2301F-02-04S AS2301F-03-08S<br>AS1301F-M3-06 AS2301F-01-10S<br>AS1301F-M5-06 AS2301F-02-10S<br>AS2301F-01-06S AS2301F-03-10S<br>AS2301F-02-06S AS4301F-04-10S | AS1311F-M3-04 AS3311F-03-06S AS3311F-03-12S<br>AS1311F-M5-04 AS2311F-01-08S AS4311F-04-12S<br>AS2311F-01-04S AS2311F-02-08S<br>AS2311F-02-04S AS2311F-03-08S<br>AS1311F-M3-06 AS2311F-01-10S<br>AS1311F-M5-06 AS2311F-02-10S<br>AS2311F-01-06S AS2311F-03-10S<br>AS2311F-02-06S AS4311F-04-10S | AS1001F-04 AS3001F-10<br>AS2001F-04 AS4001F-10<br>AS1001F-06 AS3001F-12<br>AS2001F-06 AS4001F-12<br>AS2051F-06<br>AS3001F-06<br>AS2051F-08<br>AS3001F-08 |

| AS Series                                                                                                                                                        | AS Series                                                                                                                                                                                                                                            |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|
| Specification: Bulkhead Mounting Type                                                                                                                            | Specification: Screwdriver Adjustment Type                                                                                                                                                                                                           |       |       |       |
|                                                                                 |                                                                                                                                                                     |       |       |       |
| Model                                                                                                                                                            | Model                                                                                                                                                                                                                                                | Model | Model | Model |
| AS1001F-04-03 AS3001F-10-03<br>AS2001F-04-03 AS3001F-12-03<br>AS1001F-06-03<br>AS2001F-06-03<br>AS2051F-06-03<br>AS3001F-06-03<br>AS2051F-08-03<br>AS3001F-08-03 | AS220F-01-04S-D AS220F-01-10S-D<br>AS220F-02-04S-D AS220F-02-10S-D<br>AS220F-01-06S-D AS220F-03-10S-D<br>AS220F-02-06S-D AS420F-04-10S-D<br>AS320F-03-06S-D AS320F-03-12S-D<br>AS220F-01-08S-D AS420F-04-12S-D<br>AS220F-02-08S-D<br>AS320F-03-08S-D |       |       |       |

## AS Series With Scale Speed Control Valve

| Product Images                                                                      | AS                                                                                                                                                                                                                                 | 2                                         | 2                                                   | 0                                                                            | 1F                                             | S                                                   | 1              | 02                                     | E | - | 06 | S |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|----------------|----------------------------------------|---|---|----|---|
|  | Series Code                                                                                                                                                                                                                        | Body Size<br>2:1/8, 1/4<br>3:3/8<br>4:1/2 | Control Type<br>0:limit out type<br>1:limit in type | Scale Indicator Window Direction<br>Unmarked:0°<br>1:180°<br>2:90°<br>3:270° | Thread<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 | Pipe Size<br>06:6mm<br>08:8mm<br>10:10mm<br>12:12mm | S:with sealant | Hexagonal Across Flats<br>Unmarked:9mm |   |   |    |   |
|                                                                                     |                                                                                                                                                                                                                                    | Shape<br>2:elbow type<br>3:universal type | S:with scale                                        |                                                                              |                                                |                                                     |                |                                        |   |   |    |   |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"> <li>Withstand Pressure:1.5MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Min Operating Pressure:0.1MPa</li> <li>Temperature Requirement:-5~60°C(unfrozen)</li> </ul> |                                           |                                                     |                                                                              |                                                |                                                     |                |                                        |   |   |    |   |

## ASP Series Speed Control Valve

| Product Images                                                                      | ASP                                                                                                                                                                                                                                                                              | 3                                                                                     | 2                                                   | 0                                              | F                                                   | -              | 01                                                  | - | 06 | S | J |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------|-----------------------------------------------------|----------------|-----------------------------------------------------|---|----|---|---|
|  | Series Code                                                                                                                                                                                                                                                                      | Body Size<br>3:1/8 Reference<br>4:1/4 Reference<br>5:3/8 Reference<br>6:1/2 Reference | Control Type<br>0:limit out type<br>1:limit in type | Thread<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 | Pipe Size<br>06:6mm<br>08:8mm<br>10:10mm<br>12:12mm | S:with sealant | Lock Nut<br>Unmarked:hexagonal type<br>J:round type |   |    |   |   |
|                                                                                     |                                                                                                                                                                                                                                                                                  | Shape<br>3:Universal type                                                             | F:with quick fitting                                |                                                |                                                     |                |                                                     |   |    |   |   |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"> <li>Type:with Pilot-Operated Check Valve</li> <li>Withstand Pressure:1.5MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Min Operating Pressure:0.1MPa</li> <li>Temperature Requirement:-5~60°C(unfrozen)</li> </ul> |                                                                                       |                                                     |                                                |                                                     |                |                                                     |   |    |   |   |

## AS Series Speed Control Valve

| Product Images                                                                      | AS                                                                                                                                                                                                                                                                  | 3                                         | 3                                                   | 0                                              | 1F                                     | 01                                                              | E              | - | 06 | S | A                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------------|----------------------------------------|-----------------------------------------------------------------|----------------|---|----|---|---------------------|
|  | Series Code                                                                                                                                                                                                                                                         | Body Size<br>2:1/8, 1/4<br>3:3/8<br>4:1/2 | Control Type<br>0:limit out type<br>1:limit in type | Thread<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 | Hexagonal Across Flats<br>Unmarked:9mm | Pipe Size<br>23:3.2mm<br>06:6mm<br>08:8mm<br>10:10mm<br>12:12mm | S:with sealant |   |    |   | A:push-to-lock type |
|                                                                                     |                                                                                                                                                                                                                                                                     | Shape<br>2:elbow type<br>3:universal type | With one quick fitting                              |                                                |                                        |                                                                 |                |   |    |   |                     |
|                                                                                     | <b>Specifications</b> <ul style="list-style-type: none"> <li>Type:with quick fitting</li> <li>Withstand Pressure:1.5MPa</li> <li>Max Operating Pressure:1.0MPa</li> <li>Min Operating Pressure:0.1MPa</li> <li>Temperature Requirement:-5~60°C(unfrozen)</li> </ul> |                                           |                                                     |                                                |                                        |                                                                 |                |   |    |   |                     |

## AQ240F/340F Series Quick Exhaust Valve

| Product Images                                                                       | AQ          | 2                                              | 4                    | 0                              | F                                                       | - | 04 | - | 04 |
|--------------------------------------------------------------------------------------|-------------|------------------------------------------------|----------------------|--------------------------------|---------------------------------------------------------|---|----|---|----|
|  | Series Code | Body Size<br>2:M5 Reference<br>3:1/8 Reference | F:with quick fitting | Inlet Port<br>04:4mm<br>06:6mm | Outlet Port<br>00:built-in silencer<br>04:4mm<br>06:6mm |   |    |   |    |

## ASV Series Exhaust-type Speed Control Valve

| Product Images                                                                        | ASV                                                                                                     | 3                                 | 1                    | 0                                                                     | F                                                                                     | -              | 01                                    | - | 06 | S | K |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|---------------------------------------|---|----|---|---|
|  | Series Code                                                                                             | Shape<br>1:T-type<br>2:Elbow Type | F:with quick fitting | Thread<br>M3x0.5<br>M5:M5x0.8<br>01:1/8<br>02:1/4<br>03:3/8<br>04:1/2 | Pize Size<br>00:built-in silencer<br>04:4mm<br>06:6mm<br>08:8mm<br>10:10mm<br>12:12mm | S:with sealant | C:with splash cover<br>K:with hex nut |   |    |   |   |
|                                                                                       | Body Size<br>2:M5 Reference<br>3:1/8 Reference<br>4:1/4 Reference<br>5:3/8 Reference<br>6:1/2 Reference |                                   |                      |                                                                       |                                                                                       |                |                                       |   |    |   |   |

## KQ Series Black Fitting

| KQH Series                                                                            | KQF Series                                                                            | KQH Series                                                                            | KQL Series                                                                            | KQT Series                                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| KQU Series                                                                            | KQUD Series                                                                           | KQZD Series                                                                           | AS Series                                                                             |                                                                                       |
|  |  |  |  |                                                                                       |

## KQ-U Series Universal Threaded Fitting

| KQ2H Series                                                                       |            |            | KQ2S Series                                                                       |            |            | KQ2L Series                                                                       |            |            | KQ2T Series                                                                        |            |            | KQ2U Series                                                                         |            |            |
|-----------------------------------------------------------------------------------|------------|------------|-----------------------------------------------------------------------------------|------------|------------|-----------------------------------------------------------------------------------|------------|------------|------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|------------|------------|
| Specification: External Thread Straight Fitting                                   |            |            | Specification: Internal Hexagon                                                   |            |            | Specification: External Thread Elbow Fitting                                      |            |            | Specification: T-type External Thread Fitting                                      |            |            | Specification: U-type External Thread Fitting                                       |            |            |
|  |            |            |  |            |            |  |            |            |  |            |            |  |            |            |
| Model                                                                             |            |            | Model                                                                             |            |            | Model                                                                             |            |            | Model                                                                              |            |            | Model                                                                               |            |            |
| KQ2H04-U01                                                                        | KQ2H08-U04 | KQ2H12-U04 | KQ2S04-U01                                                                        | KQ2S08-U04 | KQ2S12-U04 | KQ2L04-U01                                                                        | KQ2L08-U04 | KQ2L12-U04 | KQ2T04-U01                                                                         | KQ2T08-U04 | KQ2T12-U04 | KQ2U04-U01                                                                          | KQ2U08-U04 | KQ2U12-U04 |
| KQ2H04-U02                                                                        | KQ2H10-U01 | KQ2H16-U03 | KQ2S04-U02                                                                        | KQ2S10-U01 | KQ2S16-U03 | KQ2L04-U02                                                                        | KQ2L10-U01 | KQ2L16-U03 | KQ2T04-U02                                                                         | KQ2T10-U01 | KQ2T16-U03 | KQ2U04-U02                                                                          | KQ2U10-U01 | KQ2U16-U03 |
| KQ2H06-U01                                                                        | KQ2H10-U02 | KQ2H16-U04 | KQ2S06-U01                                                                        | KQ2S10-U02 | KQ2S16-U04 | KQ2L06-U01                                                                        | KQ2L10-U02 | KQ2L16-U04 | KQ2T06-U01                                                                         | KQ2T10-U02 | KQ2T16-U04 | KQ2U06-U01                                                                          | KQ2U10-U02 | KQ2U16-U04 |
| KQ2H06-U02                                                                        | KQ2H10-U03 |            | KQ2S06-U02                                                                        | KQ2S10-U03 |            | KQ2L06-U02                                                                        | KQ2L10-U03 |            | KQ2T06-U02                                                                         | KQ2T10-U03 |            | KQ2U06-U02                                                                          | KQ2U10-U03 |            |
| KQ2H06-U03                                                                        | KQ2H10-U04 |            | KQ2S06-U03                                                                        | KQ2S10-U04 |            | KQ2L06-U03                                                                        | KQ2L10-U04 |            | KQ2T06-U03                                                                         | KQ2T10-U04 |            | KQ2U06-U03                                                                          | KQ2U10-U04 |            |
| KQ2H08-U01                                                                        | KQ2H12-U01 |            | KQ2S08-U01                                                                        | KQ2S12-U01 |            | KQ2L08-U01                                                                        | KQ2L12-U01 |            | KQ2T08-U01                                                                         | KQ2T12-U01 |            | KQ2U08-U01                                                                          | KQ2U12-U01 |            |
| KQ2H08-U02                                                                        | KQ2H12-U02 |            | KQ2S08-U02                                                                        | KQ2S12-U02 |            | KQ2L08-U02                                                                        | KQ2L12-U02 |            | KQ2T08-U02                                                                         | KQ2T12-U02 |            | KQ2U08-U02                                                                          | KQ2U12-U02 |            |
| KQ2H08-U03                                                                        | KQ2H12-U03 |            | KQ2S08-U03                                                                        | KQ2S12-U03 |            | KQ2L08-U03                                                                        | KQ2L12-U03 |            | KQ2T08-U03                                                                         | KQ2T12-U03 |            | KQ2U08-U03                                                                          | KQ2U12-U03 |            |

## KG Series Corrosion-Resistant Fitting

| KQ2Y Series                                                                       |            |            | AS Series                                                                         |                |  | KG2H Series                                                                       |            |            | KG2S Series                                                                        |            |            | KG2L Series                                                                         |            |            |
|-----------------------------------------------------------------------------------|------------|------------|-----------------------------------------------------------------------------------|----------------|--|-----------------------------------------------------------------------------------|------------|------------|------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|------------|------------|
| Specification: Y-type External Thread Fitting                                     |            |            | Specification: Speed Control Valve                                                |                |  | Specification: External Thread Straight Fitting                                   |            |            | Specification: Internal Hex Fitting                                                |            |            | Specification: Internal Hex Fitting                                                 |            |            |
|  |            |            |  |                |  |  |            |            |  |            |            |  |            |            |
| Model                                                                             |            |            | Model                                                                             |                |  | Model                                                                             |            |            | Model                                                                              |            |            | Model                                                                               |            |            |
| KQ2Y04-U01                                                                        | KQ2Y08-U04 | KQY12-U04  | AS2201F-U01-04                                                                    | AS2201F-U01-10 |  | KG2H04-M3                                                                         | KG2H06-02S | KG2H10-03S | KG2S04-M3                                                                          | KG2S06-02S | KG2S10-03S | KG2L04-M3                                                                           | KG2L06-02S | KG2L10-03S |
| KQ2Y04-U02                                                                        | KQ2Y10-U01 | KQ2Y16-U03 | AS2201F-U02-04                                                                    | AS2201F-U02-10 |  | KG2H04-M5                                                                         | KG2H06-03S | KG2H10-04S | KG2S04-M5                                                                          | KG2S06-03S | KG2S10-04S | KG2L04-M5                                                                           | KG2L06-03S | KG2L10-04S |
| KQ2Y06-U01                                                                        | KQ2Y10-U02 | KQ2Y16-U04 | AS2201F-U01-06                                                                    | AS3201F-U03-10 |  | KG2H04-M6                                                                         | KG2H08-01S | KG2H12-01S | KG2S04-M6                                                                          | KG2S08-01S |            | KG2L04-M6                                                                           | KG2L08-01S | KG2L12-01S |
| KQ2Y06-U02                                                                        | KQ2Y10-U03 |            | AS2201F-U02-06                                                                    | AS4201F-U04-10 |  | KG2H04-01S                                                                        | KG2H08-02S | KG2H12-02S | KG2S04-01S                                                                         | KG2S08-02S |            | KG2L04-01S                                                                          | KG2L08-02S | KG2L12-02S |
| KQ2Y06-U03                                                                        | KQ2Y10-U04 |            | AS3201F-U03-06                                                                    | AS3201F-U03-12 |  | KG2H04-02S                                                                        | KG2H08-03S | KG2H12-03S | KG2S04-02S                                                                         | KG2S08-03S |            | KG2L04-02S                                                                          | KG2L08-03S | KG2L12-03S |
| KQ2Y08-U01                                                                        | KQ2Y12-U01 |            | AS2201F-U01-08                                                                    | AS4201F-U04-12 |  | KG2H06-M5                                                                         | KG2H08-04S | KG2H12-04S | KG2S06-M5                                                                          | KG2S08-04S |            | KG2L06-M5                                                                           | KG2L08-04S | KG2L12-04S |
| KQ2Y08-U02                                                                        | KQ2Y12-U02 |            | AS2201F-U02-08                                                                    |                |  | KG2H06-M6                                                                         | KG2H10-01S | KG2H16-03S | KG2S06-M6                                                                          | KG2S10-01S |            | KG2L06-M6                                                                           | KG2L10-01S | KG2L16-03S |
| KQ2Y08-U03                                                                        | KQ2Y12-U03 |            | AS3201F-U03-08                                                                    |                |  | KG2H06-01S                                                                        | KG2H10-02S | KG2H16-04S | KG2S06-01S                                                                         | KG2S10-02S |            | KG2L06-01S                                                                          | KG2L10-02S | KG2L16-04S |

## KC Series Self-Sealing Quick Fitting

| KCH Series                                                                          |           | KCL Series                                                                          |           | KCH Series                                                                          |  | KCJ Series                                                                           |  | KCE Series                                                                            |  |
|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
| Specification: Straight Fitting                                                     |           | Specification: Elbow Fitting                                                        |           | Specification: Equal Straight Fitting                                               |  | Specification: Push-in Straight Fitting                                              |  | Specification: Bulkhead Fitting                                                       |  |
|  |           |  |           |  |  |  |  |  |  |
| Model                                                                               |           | Model                                                                               |           | Model                                                                               |  | Model                                                                                |  | Model                                                                                 |  |
| KCH04-M5                                                                            | KCH10-02S | KCL04-M5                                                                            | KCL10-02S | KCH04-00                                                                            |  | KCJ04-99                                                                             |  | KCE04-00                                                                              |  |
| KCH04-01S                                                                           | KCH10-03S | KCL04-01S                                                                           | KCL10-03S | KCH06-00                                                                            |  | KCJ06-99                                                                             |  | KCE06-00                                                                              |  |
| KCH06-M5                                                                            | KCH12-03S | KCL06-M5                                                                            | KCL12-03S | KCH08-00                                                                            |  | KCJ08-99                                                                             |  | KCE08-00                                                                              |  |
| KCH06-01S                                                                           | KCH12-04S | KCL06-01S                                                                           | KCL12-04S | KCH10-00                                                                            |  | KCJ10-99                                                                             |  | KCE10-00                                                                              |  |
| KCH06-02S                                                                           |           | KCL06-02S                                                                           |           | KCH12-00                                                                            |  | KCJ12-99                                                                             |  | KCE12-00                                                                              |  |
| KCH08-01S                                                                           |           | KCL08-01S                                                                           |           |                                                                                     |  |                                                                                      |  |                                                                                       |  |
| KCH08-02S                                                                           |           | KCL08-02S                                                                           |           |                                                                                     |  |                                                                                      |  |                                                                                       |  |
| KCH08-03S                                                                           |           | KCL08-03S                                                                           |           |                                                                                     |  |                                                                                      |  |                                                                                       |  |

| KCE Series                                                                          |  | KCR Series                                                                          |  |       |  |       |  |       |  |
|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-------|--|-------|--|-------|--|
| Specification: Internal Thread Bulkhead Fitting                                     |  | Specification: Push-in Fitting                                                      |  |       |  |       |  |       |  |
|  |  |  |  |       |  |       |  |       |  |
| Model                                                                               |  | Model                                                                               |  | Model |  | Model |  | Model |  |
| KCE04-02                                                                            |  | KCR04-99                                                                            |  |       |  |       |  |       |  |
| KCE06-02                                                                            |  | KCR06-99                                                                            |  |       |  |       |  |       |  |
| KCE08-03                                                                            |  | KCR08-99                                                                            |  |       |  |       |  |       |  |
| KCE10-03                                                                            |  | KCR10-99                                                                            |  |       |  |       |  |       |  |
| KCE12-03                                                                            |  | KCR12-99                                                                            |  |       |  |       |  |       |  |
|                                                                                     |  |                                                                                     |  |       |  |       |  |       |  |
|                                                                                     |  |                                                                                     |  |       |  |       |  |       |  |
|                                                                                     |  |                                                                                     |  |       |  |       |  |       |  |
|                                                                                     |  |                                                                                     |  |       |  |       |  |       |  |

## KS Series High-Speed Rotary Fitting

## ed Rotary Fitting

| KSL Series                                                                          |           |
|-------------------------------------------------------------------------------------|-----------|
| Specification:Elbow Fitting                                                         |           |
|  |           |
| Model                                                                               |           |
| KSL04-M5                                                                            | KSL08-02S |
| KSL04-M6                                                                            | KSL08-03S |
| KSL04-01S                                                                           | KSL10-02S |
| KSL06-M5                                                                            | KSL10-03S |
| KSL06-M6                                                                            | KSL10-04S |
| KSL06-01S                                                                           | KSL12-03S |
| KSL06-02S                                                                           | KSL12-04S |
| KSL08-01S                                                                           |           |

## AKH Series One-Way Valve

### ay Valve

**AKB Series**

Specification: External-Internal Threaded

AKB01A

| Model      |
|------------|
| AKB01A-01S |
| AKB01B-01S |
| AKB02A-02S |
| AKB02B-02S |
| AKB03A-03S |
| AKB03B-03S |
| AKB04A-04S |
| AKB04B-04S |

## VHK Series Manual Valve

| Product Images                                                                       | VHK                    | 2                                   | R                                                               | 02S                                                                                                                                      | 02S                                                                                                                                      | - | R                                                                     | C                                       |
|--------------------------------------------------------------------------------------|------------------------|-------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------|-----------------------------------------|
|  | <div>Series Code</div> | <div>Way</div> 2:2-port<br>3:3-port | <div>Type</div> Unmarked:standard type<br>R:fire-resistant Type | <div>Port1 Size</div> 04F:4mm<br>06F:6mm<br>08F:8mm<br>10F:10mm<br>12F:12mm<br>M5:M5x0.8<br>01S:R1/8<br>02S:R1/4<br>03S:R3/8<br>04S:R1/2 | <div>Port2 Size</div> 04F:4mm<br>06F:6mm<br>08F:8mm<br>10F:10mm<br>12F:12mm<br>M5:M5x0.8<br>01S:R1/8<br>02S:R1/4<br>03S:R3/8<br>04S:R1/2 |   | <div>Knob Color</div> Unmarked:gray(2-port),<br>blue(3-port)<br>R:red | <div>C:with flame-resistant cover</div> |

## Pneumatic Tube Quick Fitting P Series

| PC Series                                                                             |         |         | PL Series                                                                             |         |         | PB Series                                                                             |         |         | PD Series                                                                             |         |         | PX Series                                                                             |         |         |
|---------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------|---------|---------|
| Specification: Threaded Straight Fitting                                              |         |         | Specification: Threaded Elbow Fitting                                                 |         |         | Specification: Threaded Straight Tee                                                  |         |         | Specification: Threaded Side Tee                                                      |         |         | Specification: Y-type Threaded Tee                                                    |         |         |
|  |         |         |  |         |         |  |         |         |  |         |         |  |         |         |
| Model                                                                                 |         |         | Model                                                                                 |         |         | Model                                                                                 |         |         | Model                                                                                 |         |         | Model                                                                                 |         |         |
| PC4-M5                                                                                | PC8-02  | PC12-02 | PL4-M5                                                                                | PL8-01  | PL12-01 | PB4-M5                                                                                | PB8-01  | PB12-01 | PD4-M5                                                                                | PD8-01  | PD12-01 | PX4-M5                                                                                | PX8-01  | PX12-01 |
| PC4-01                                                                                | PC8-03  | PC12-03 | PL4-01                                                                                | PL8-02  | PL12-02 | PB4-01                                                                                | PB8-02  | PB12-02 | PD4-01                                                                                | PD8-02  | PD12-02 | PX4-01                                                                                | PX8-02  | PX12-02 |
| PC4-02                                                                                | PC8-04  | PC12-04 | PL4-02                                                                                | PL8-03  | PL12-03 | PB4-02                                                                                | PB8-03  | PB12-03 | PD4-02                                                                                | PD8-03  | PD12-03 | PX4-02                                                                                | PX8-03  | PX12-03 |
| PC6-01                                                                                | PC10-01 | PC14-04 | PL6-M5                                                                                | PL8-04  | PL12-04 | PB6-M5                                                                                | PB8-04  | PB12-04 | PD6-M5                                                                                | PD8-04  | PD12-04 | PX6-M5                                                                                | PX8-04  | PX12-04 |
| PC6-02                                                                                | PC10-02 | PC14-04 | PL6-01                                                                                | PL10-01 | PL14-03 | PB6-01                                                                                | PB10-01 | PB14-03 | PD6-01                                                                                | PD10-01 | PD14-03 | PX6-01                                                                                | PX10-01 | PX16-03 |
| PC6-03                                                                                | PC10-03 | PC16-03 | PL6-02                                                                                | PL10-02 | PL14-04 | PB6-02                                                                                | PB10-02 | PB14-04 | PD6-02                                                                                | PD10-02 | PD14-04 | PX6-02                                                                                | PX10-02 | PX16-04 |
| PC6-04                                                                                | PC10-04 | PC16-04 | PL6-03                                                                                | PL10-03 | PL16-03 | PB6-03                                                                                | PB10-03 |         | PD6-03                                                                                | PD10-03 |         | PX6-03                                                                                | PX10-03 |         |
| PC8-01                                                                                | PC12-01 |         | PL6-04                                                                                | PL10-04 | PL16-04 | PB6-04                                                                                | PB10-04 |         | PD6-04                                                                                | PD10-04 |         | PX6-04                                                                                | PX10-04 |         |

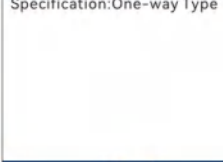
| <b>PCF Series</b>                                                                     |          |          | <b>PM Series</b>                                                                      | <b>PU Series</b>                                                                      | <b>PE Series</b>                                                                      | <b>PV Series</b>                                                                      |
|---------------------------------------------------------------------------------------|----------|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Specification: Internal Thread Straight Fitting                                       |          |          | Specification: Bulkhead Straight Fitting                                              | Specification: Straight Fitting                                                       | Specification: T-type Tee                                                             | Specification: Elbow Fitting                                                          |
|  |          |          |  |  |  |  |
| Model                                                                                 |          |          | Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                 |
| PCF4-M5                                                                               | PCF8-01  | PCF12-01 | PM-4                                                                                  | PU-4                                                                                  | PE-4                                                                                  | PV-4                                                                                  |
| PCF4-01                                                                               | PCF8-02  | PCF12-02 | PM-6                                                                                  | PU-6                                                                                  | PE-6                                                                                  | PV-6                                                                                  |
| PCF4-02                                                                               | PCF8-03  | PCF12-03 | PM-8                                                                                  | PU-8                                                                                  | PE-8                                                                                  | PV-8                                                                                  |
| PCF6-M5                                                                               | PCF8-04  | PCF12-04 | PM-10                                                                                 | PU-10                                                                                 | PE-10                                                                                 | PV-10                                                                                 |
| PCF6-01                                                                               | PCF10-01 | PCF16-03 | PM-12                                                                                 | PU-12                                                                                 | PE-12                                                                                 | PV-12                                                                                 |
| PCF6-02                                                                               | PCF10-02 | PCF16-04 | PM-16                                                                                 | PU-14                                                                                 | PE-14                                                                                 | PV-14                                                                                 |
| PCF6-03                                                                               | PCF10-03 |          |                                                                                       | PU-16                                                                                 | PE-16                                                                                 | PV-16                                                                                 |
| PCF6-04                                                                               | PCF10-04 |          |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

| PY Series                                                                         | PXL Series                                                                        | PW Series                                                                         | PG Series                                                                          | PEN Series                                                                          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Specification:Y-type Tee                                                          | Specification:Four-Way Fitting                                                    | Specification:Five-Way Fitting                                                    | Specification:Straight Reducer Fitting                                             | Specification:Reducer Tee                                                           |
|  |  |  |  |  |
| Model                                                                             | Model                                                                             | Model                                                                             | Model                                                                              | Model                                                                               |
| PY-4                                                                              | PXL-4                                                                             | PW-4                                                                              | PG6-4                                                                              | PEN6-4                                                                              |
| PY-6                                                                              | PXL-6                                                                             | PW-6                                                                              | PG8-4                                                                              | PEN8-4                                                                              |
| PY-8                                                                              | PXL-8                                                                             | PW-8                                                                              | PG8-6                                                                              | PEN8-6                                                                              |
| PY-10                                                                             | PXL-10                                                                            | PW-10                                                                             | PG10-8                                                                             | PEN10-6                                                                             |
| PY-12                                                                             | PXL-12                                                                            | PW-12                                                                             | PG12-8                                                                             | PEN10-8                                                                             |
|                                                                                   |                                                                                   |                                                                                   | PG12-10                                                                            | PEN12-8                                                                             |
|                                                                                   |                                                                                   |                                                                                   | PG16-12                                                                            | PEN12-10                                                                            |

| PEND Series                                                                       | PYW Series                                                                        | PWG Series                                                                        | PH Series                                                                          | PHF Series                                                                          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Specification:Reducer Tee                                                         | Specification:Y-type Reducer Tee                                                  | Specification:Five-way Reducer                                                    | Specification:External Hex                                                         | Specification:Series Fitting                                                        |
|  |  |  |  |  |
| Model                                                                             | Model                                                                             | Model                                                                             | Model                                                                              | Model                                                                               |
| PEND6-4                                                                           | PYW6-4                                                                            | PWG6-4                                                                            | PH4-M5 PH8-01 PH12-02                                                              | PHF4-M5 PHF8-01 PHF12-02                                                            |
| PEND8-4                                                                           | PYW8-4                                                                            | PWG8-4                                                                            | PH4-01 PH8-02 PH12-03                                                              | PHF4-01 PHF8-02 PHF12-03                                                            |
| PEND8-6                                                                           | PYW8-6                                                                            | PWG8-6                                                                            | PH4-02 PH8-03 PH12-04                                                              | PHF4-02 PHF8-03 PHF12-04                                                            |
| PEND10-6                                                                          | PYW10-6                                                                           | PWG10-6                                                                           | PH6-M5 PH8-04 PH12-04                                                              | PHF6-M5 PHF8-04 PHF12-04                                                            |
| PEND10-8                                                                          | PYW10-8                                                                           | PWG10-8                                                                           | PH6-01 PH10-01                                                                     | PHF6-01 PHF10-01                                                                    |
| PEND12-8                                                                          | PYW12-8                                                                           | PWG12-8                                                                           | PH6-02 PH10-02                                                                     | PHF6-02 PHF10-02                                                                    |
| PEND12-10                                                                         | PYW12-10                                                                          | PWG12-10                                                                          | PH6-03 PH10-03                                                                     | PHF6-03 PHF10-03                                                                    |
|                                                                                   |                                                                                   |                                                                                   | PH6-04 PH10-04                                                                     | PHF6-04 PHF10-04                                                                    |

| PLF Series                                                                          | PWB Series                                                                          | PMF Series                                                                          | PLL Series                                                                           | PWD Series                                                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Specification:Internal Elbow Fitting                                                | Specification:Five-way Threaded Fitting                                             | Specification:Panel-Mount Internal Thread Fitting                                   | Specification:Extended Elbow Fitting                                                 | Specification:Five-way Threaded Reducer Fitting                                       |
|  |  |  |  |  |
| Model                                                                               | Model                                                                               | Model                                                                               | Model                                                                                | Model                                                                                 |
| PLF4-M5 PLF8-01 PLF12-02                                                            | PWB4-M5 PWB8-01 PWB12-02                                                            | PMF1-M5 PMF8-01 PMF12-01                                                            | PLL1-M5 PLL8-01 PLL12-01                                                             | PWD6-4-01                                                                             |
| PLF4-01 PLF8-02 PLF12-03                                                            | PWB4-01 PWB8-02 PWB12-03                                                            | PMF1-01 PMF8-02 PMF12-02                                                            | PLL1-01 PLL8-02 PLL12-02                                                             | PWD8-6-01                                                                             |
| PLF4-02 PLF8-03 PLF12-04                                                            | PWB4-02 PWB8-03 PWB12-04                                                            | PMF4-02 PMF8-03 PMF12-03                                                            | PLL4-02 PLL8-03 PLL12-03                                                             | PWD8-6-02                                                                             |
| PLF6-M5 PLF8-04                                                                     | PWB6-M5 PWB8-04                                                                     | PMF6-M5 PMF8-04 PMF12-04                                                            | PLL6-M5 PLL8-04 PLL12-04                                                             | PWD10-8-02                                                                            |
| PLF6-01 PLF10-01                                                                    | PWB6-01 PWB10-01                                                                    | PMF6-01 PMF10-01 PMF14-01                                                           | PLL6-01 PLL10-01 PLL14-01                                                            | PWD10-8-03                                                                            |
| PLF6-02 PLF10-02                                                                    | PWB6-02 PWB10-02                                                                    | PMF6-02 PMF10-02 PMF14-02                                                           | PLL6-02 PLL10-02 PLL14-02                                                            | PWD10-8-04                                                                            |
| PLF6-03 PLF10-03                                                                    | PWB6-03 PWB10-03                                                                    | PMF6-03 PMF10-03 PMF14-03                                                           | PLL6-03 PLL10-03 PLL14-03                                                            | PWD12-10-03                                                                           |
| PLF6-04 PLF10-04                                                                    | PWB6-04 PWB10-04                                                                    | PMF6-04 PMF10-04 PMF14-04                                                           | PLL6-04 PLL10-04 PLL14-04                                                            | PWD12-10-04                                                                           |

## Flow Control Valve

| PA Series                                                                           | JSC Series                                                                          | HVFF Series                                                                         | JSC Series                                                                           | HVFF Series                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Specification:Pipe-type                                                             | Specification:One-way Type                                                          | Specification:Manual Valve                                                          | Specification:One-way Type                                                           | Specification:Manual Valve                                                            |
|  |  |  |  |  |
| Model                                                                               | Model                                                                               | Model                                                                               | Model                                                                                | Model                                                                                 |
| PA-4                                                                                | JSC4-M5 JSC8-01 JSC12-02                                                            | HVFF-4                                                                              |                                                                                      |                                                                                       |
| PA-6                                                                                | JSC4-01 JSC8-02 JSC12-03                                                            | HVFF-6                                                                              |                                                                                      |                                                                                       |
| PA-8                                                                                | JSC4-02 JSC8-03 JSC12-04                                                            | HVFF-8                                                                              |                                                                                      |                                                                                       |
| PA-10                                                                               | JSC6-M5 JSC8-04                                                                     | HVFF-10                                                                             |                                                                                      |                                                                                       |
| PA-12                                                                               | JSC6-01 JSC10-01                                                                    | HVFF-12                                                                             |                                                                                      |                                                                                       |
|                                                                                     | JSC6-02 JSC10-02                                                                    |                                                                                     |                                                                                      |                                                                                       |
|                                                                                     | JSC6-03 JSC10-03                                                                    |                                                                                     |                                                                                      |                                                                                       |
|                                                                                     | JSC6-04 JSC10-04                                                                    |                                                                                     |                                                                                      |                                                                                       |

## Copper Quick Connect Fitting

| TPC Series                                                                          | TPC-G Series                                                                        | TPOC Series                                                                         | TPOC-G Series                                                                       | TPCF Series                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Specification:Threaded Straight Fitting                                             | Specification:G-type Threaded Straight Fitting                                      | Specification:Round Thread Straight Fitting                                         | Specification:G-type Round Thread Straight Fitting                                  | Specification:Internal Thread Straight Fitting                                      |
|  |  |  |  |  |
| Model                                                                               | Model                                                                               | Model                                                                               | Model                                                                               | Model                                                                               |
| TPC4-01 TPC8-03 TPC12-03                                                            | TPC4-M5 TPC8-01G TPC12-01G                                                          | TPOC4-01 TPOC12-02                                                                  | TPOC4-M5 TPOC10-02G                                                                 | TPCF4-M5 TPCF8-01 TPCF12-02                                                         |
| TPC4-02 TPC8-04 TPC12-04                                                            | TPC4-01G TPC8-02G TPC12-02G                                                         | TPOC6-01 TPOC12-03                                                                  | TPOC4-01G TPOC10-03G                                                                | TPCF4-01 TPCF8-02 TPCF12-03                                                         |
| TPC6-01 TPC10-01 TPC14-03                                                           | TPC4-02G TPC8-03G TPC12-03G                                                         | TPOC6-02 TPOC12-04                                                                  | TPOC6-M5 TPOC12-02G                                                                 | TPCF4-02 TPCF8-03 TPCF12-04                                                         |
| TPC6-02 TPC10-02 TPC14-04                                                           | TPC6-M5 TPC8-04G TPC12-04G                                                          | TPOC8-01                                                                            | TPOC6-01G TPOC12-03G                                                                | TPCF6-M5 TPCF10-01                                                                  |
| TPC6-03 TPC10-03 TPC16-03                                                           | TPC6-01G TPC10-01G TPC14-03G                                                        | TPOC8-02                                                                            | TPOC6-02G TPOC12-04G                                                                | TPCF6-01 TPCF10-02                                                                  |
| TPC6-04 TPC10-04 TPC16-04                                                           | TPC6-02G TPC10-02G TPC14-04G                                                        | TPOC8-03                                                                            | TPOC8-01G                                                                           | TPCF6-02 TPCF10-03                                                                  |
| TPC8-01 TPC12-01 TPC16-06                                                           | TPC6-03G TPC10-03G TPC16-03G                                                        | TPOC10-02                                                                           | TPOC8-02G                                                                           | TPCF6-03 TPCF10-04                                                                  |
| TPC8-02 TPC12-02                                                                    | TPC6-04G TPC10-04G TPC16-04G                                                        | TPOC10-03                                                                           | TPOC8-03G                                                                           | TPCF6-04 TPCF12-01                                                                  |

| TPMF Series                                                                         | TPL Series                                                                          | TPL-G Series                                                                        | TPLF Series                                                                         | TPGJ Series                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Specification:Bulkhead Internal Thread Straight Fitting                             | Specification:Threaded Elbow Tee                                                    | Specification:G-type Threaded Elbow Tee                                             | Specification:Internal Thread Elbow Fitting                                         | Specification:Quick Plug-in Fitting                                                 |
|  |  |  |  |  |
| Model                                                                               | Model                                                                               | Model                                                                               | Model                                                                               | Model                                                                               |
| TPMF4-M5 TPF10-03                                                                   | TPL4-01 TPL8-03 TPL12-03                                                            | TPL4-M5 TPL8-01G TPL12-01G                                                          | TPLF4-M5 TPLF8-02 TPLF12-02                                                         | TPGJ4-6 TPGJ12-14                                                                   |
| TPMF4-01 TPF12-03                                                                   | TPL4-02 TPL8-04 TPL12-04                                                            | TPL4-01G TPL8-02G TPL12-02G                                                         | TPLF4-01 TPLF8-03 TPLF12-03                                                         | TPGJ4-8                                                                             |
| TPMF4-02 TPF12-03                                                                   | TPL6-01 TPL10-01 TPL14-03                                                           | TPL4-02G TPL8-03G TPL12-03G                                                         | TPLF4-02 TPLF8-04 TPLF12-04                                                         | TPGJ6-8                                                                             |
| TPMF6-01                                                                            | TPL6-02 TPL10-02 TPL14-04                                                           | TPL6-M5 TPL8-04G TPL12-04G                                                          | TPLF6-01 TPLF10-01                                                                  | TPGJ6-10                                                                            |
| TPMF6-02                                                                            | TPL6-03 TPL10-03 TPL16-03                                                           | TPL6-01G TPL10-01G TPL14-03G                                                        | TPLF6-02 TPLF10-02                                                                  | TPGJ8-10                                                                            |
| TPMF8-01                                                                            | TPL6-04 TPL10-04 TPL16-04                                                           | TPL6-02G TPL10-02G TPL14-04G                                                        | TPLF6-03 TPLF10-03                                                                  | TPGJ8-12                                                                            |
| TPMF8-02                                                                            | TPL8-01 TPL12-01 TPL16-06                                                           | TPL6-03G TPL10-03G TPL16-03G                                                        | TPLF6-04 TPLF10-04                                                                  | TPGJ10-12                                                                           |
| TPMF10-03                                                                           | TPL8-02 TPL12-02                                                                    | TPL6-04G TPL10-04G TPL16-04G                                                        | TPLF8-01 TPLF12-01                                                                  | TPGJ10-14                                                                           |

| TPLL Series                                                                           | TPLL-G Series                                                                         | TPB Series                                                                            | TPB-G Series                                                                          | TPD Series                                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Specification:Extended Threaded Elbow Fitting                                         | Specification:G-type Extended Threaded Elbow Fitting                                  | Specification:Threaded Straight Tee                                                   | Specification:G-type Round Thread Straight Fitting                                    | Specification:Threaded Side Tee                                                       |
|  |  |  |  |  |
| Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                 |
| TPLL4-01 TPLL8-03 TPLL12-03                                                           | TPLL4-M5 TPLL8-01G TPLL12-01G                                                         | TPB4-01 TPB8-03 TPB12-03                                                              | TPB4-M5 TPB8-01G TPB12-01G                                                            | TPD4-01 TPD8-03 TPD12-03                                                              |
| TPLL4-02 TPLL8-04 TPLL12-04                                                           | TPLL4-01G TPLL8-02G TPLL12-02G                                                        | TPB4-02 TPB8-04 TPB12-04                                                              | TPB4-01G TPB8-02G TPB12-02G                                                           | TPD4-02 TPD8-04 TPD12-04                                                              |
| TPLL6-01 TPLL10-01                                                                    | TPLL4-02G TPLL8-03G TPLL12-03G                                                        | TPB6-01 TPB10-01 TPB14-03                                                             | TPB4-02G TPB8-03G TPB12-03G                                                           | TPD6-01 TPD10-01                                                                      |
| TPLL6-02 TPLL10-02                                                                    | TPLL6-M5 TPLL8-04G TPLL12-04G                                                         | TPB6-02 TPB10-02 TPB14-04                                                             | TPB6-M5 TPB8-04G TPB12-04G                                                            | TPD6-02 TPD10-02                                                                      |
| TPLL6-03 TPLL10-03                                                                    | TPLL6-01G TPLL10-01G                                                                  | TPB6-03 TPB10-03 TPB16-03                                                             | TPB6-01G TPB10-01G TPB14-03G                                                          | TPD6-03 TPD10-03                                                                      |
| TPLL6-04 TPLL10-04                                                                    | TPLL6-02G TPLL10-02G                                                                  | TPB8-01 TPB12-01                                                                      | TPB6-02G TPB10-02G TPB14-04G                                                          | TPD6-04 TPD10-04                                                                      |
| TPLL8-01 TPLL12-01                                                                    | TPLL6-03G TPLL10-03G                                                                  | TPB8-02 TPB12-02                                                                      | TPB6-03G TPB10-03G TPB16-03G                                                          | TPD8-01 TPD12-01                                                                      |
| TPLL8-02 TPLL12-02                                                                    | TPLL6-04G TPLL10-04G                                                                  |                                                                                       | TPB6-04G TPB10-04G TPB16-04G                                                          | TPD8-02 TPD12-02                                                                      |

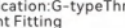
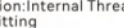
| TPD-G Series                                                                          | TPH Series                                                                            | TPH-G Series                                                                          | TPX Series                                                                            | TPX-G Series                                                                          |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Specification:Threaded Side Tee                                                       | Specification:External Hex Fitting                                                    | Specification:G-type External Hex Fitting                                             | Specification:Y-type Threaded Tee Fitting                                             | Specification:Y-type Threaded Tee Fitting G-type                                      |
|  |  |  |  |  |
| Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                 | Model                                                                                 |
| TPD4-M5 TPD8-01G TPD12-01G                                                            | TPH4-01 TPH8-03 TPH12-04                                                              | TPH4-M5 TPH8-01G TPH12-02G                                                            | TPX4-01 TPX8-03 TPX12-03                                                              | TPX4-M5 TPX8-01G TPX12-01G                                                            |
| TPD4-01G TPD8-02G TPD12-02G                                                           | TPH4-02 TPH8-04 TPH16-04                                                              | TPH4-01G TPH8-02G TPH12-03G                                                           | TPX4-02 TPX8-04 TPX12-04                                                              | TPX4-01G TPX8-02G TPX12-02G                                                           |
| TPD4-02G TPD8-03G TPD12-03G                                                           | TPH6-01 TPH10-01                                                                      | TPH4-02G TPH8-03G TPH12-04G                                                           | TPX6-01 TPX10-01 TPX14-04                                                             | TPX4-02G TPX8-03G TPX12-03G                                                           |
| TPD6-M5 TPD8-04G TPD12-04G                                                            | TPH6-02 TPH10-02                                                                      | TPH6-M5 TPX8-04G TPH16-04G                                                            | TPX6-02 TPX10-02 TPX16-04                                                             | TPX6-M5 TPX8-04G TPX12-04G                                                            |
| TPD6-01G TPD10-01G                                                                    | TPH6-03 TPH10-03                                                                      | TPH6-01G TPH10-01G                                                                    | TPX6-03 TPX10-03                                                                      | TPX6-01G TPX10-01G TPX14-04G                                                          |
| TPD6-02G TPD10-02G                                                                    | TPH6-04 TPH10-04                                                                      | TPH6-02G TPH10-02G                                                                    | TPX6-04 TPX10-04                                                                      | TPX6-02G TPX10-02G TPX16-04G                                                          |
| TPD6-03G TPD10-03G                                                                    | TPH8-01 TPH12-02                                                                      | TPH6-03G TPH10-03G                                                                    | TPX8-01 TPX12-01                                                                      | TPX6-03G TPX10-03G                                                                    |
| TPD6-04G TPD10-04G                                                                    | TPH8-02 TPH12-03                                                                      | TPH6-04G TPH10-04G                                                                    | TPX8-02 TPX12-02                                                                      | TPX6-04G TPX10-04G                                                                    |

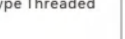
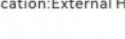
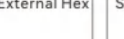
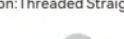
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| TPZA Series                                                                       | TPV Series                                                                        | TPY Series                                                                        | TPW Series                                                                         |       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|
| Specification: Cross Fitting                                                      | Specification: Right-Angle Elbow Fitting                                          | Specification: Y-type Tee                                                         | Specification: Y-type Reducer Tee                                                  |       |
|  |  |  |  |       |
| Model                                                                             | Model                                                                             | Model                                                                             | Model                                                                              | Model |
| TPZA4                                                                             | TPV4                                                                              | TPY4                                                                              | TPW6-4                                                                             |       |
| TPZA6                                                                             | TPV6                                                                              | TPY6                                                                              | TPW8-6                                                                             |       |
| TPZA8                                                                             | TPV8                                                                              | TPY8                                                                              | TPW10-6                                                                            |       |
| TPZA10                                                                            | TPV10                                                                             | TPY10                                                                             | TPW10-8                                                                            |       |
| TPZA12                                                                            | TPV12                                                                             | TPY12                                                                             | TPW12-8                                                                            |       |
|                                                                                   | TPV14                                                                             | TPY14                                                                             | TPW12-10                                                                           |       |
|                                                                                   | TPV16                                                                             | TPY16                                                                             |                                                                                    |       |

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### Copper Quick Screw Fitting

| TNPC Series                                                                         |           |           | TNPC-G Series                                                                       |            |            | TNPCF Series                                                                        |            |            | TNPLF Series                                                                        |            |            | TNPL Series                                                                         |           |           |
|-------------------------------------------------------------------------------------|-----------|-----------|-------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|-----------|-----------|
| Specification: Threaded Straight Fitting                                            |           |           | Specification: G-type Threaded Straight Fitting                                     |            |            | Specification: Internal Thread Straight Fitting                                     |            |            | Specification: Internal Thread Straight Fitting                                     |            |            | Specification: Threaded Elbow Fitting                                               |           |           |
|  |           |           |  |            |            |  |            |            |  |            |            |  |           |           |
| Model                                                                               |           |           | Model                                                                               |            |            | Model                                                                               |            |            | Model                                                                               |            |            | Model                                                                               |           |           |
| TNPC4-01                                                                            | TNPC8-03  | TNPC12-03 | TNPC4-M5                                                                            | TNPC8-01G  | TNPC12-01G | TNPCF4-01                                                                           | TNPCF8-03  | TNPCF12-03 | TNPLF4-01                                                                           | TNPLF8-03  | TNPLF12-03 | TNPL4-01                                                                            | TNPL8-03  | TNPL12-03 |
| TNPC4-02                                                                            | TNPC8-04  | TNPC12-04 | TNPC4-01G                                                                           | TNPC8-02G  | TNPC12-02G | TNPCF4-02                                                                           | TNPCF8-04  | TNPCF12-04 | TNPLF4-02                                                                           | TNPLF8-04  | TNPLF12-04 | TNPL4-02                                                                            | TNPL8-04  | TNPL12-04 |
| TNPC6-01                                                                            | TNPC10-01 | TNPC14-03 | TNPC4-02G                                                                           | TNPC8-03G  | TNPC12-03G | TNPCF6-01                                                                           | TNPCF10-01 |            | TNPLF6-01                                                                           | TNPLF10-01 | TNPLF14-03 | TNPL6-01                                                                            | TNPL10-01 | TNPL14-03 |
| TNPC6-02                                                                            | TNPC10-02 | TNPC14-04 | TNPC6-M5                                                                            | TNPC8-04G  | TNPC12-04G | TNPCF6-02                                                                           | TNPCF10-02 |            | TNPLF6-02                                                                           | TNPLF10-02 | TNPLF14-04 | TNPL6-02                                                                            | TNPL10-02 | TNPL14-04 |
| TNPC6-03                                                                            | TNPC10-03 | TNPC16-03 | TNPC6-01G                                                                           | TNPC10-01G | TNPC14-03G | TNPCF6-03                                                                           | TNPCF10-03 |            | TNPLF6-03                                                                           | TNPLF10-03 | TNPLF16-03 | TNPL6-03                                                                            | TNPL10-03 | TNPL16-03 |
| TNPC6-04                                                                            | TNPC10-04 | TNPC16-04 | TNPC6-02G                                                                           | TNPC10-02G | TNPC14-04G | TNPCF6-04                                                                           | TNPCF10-04 |            | TNPLF6-04                                                                           | TNPLF10-04 | TNPLF16-04 | TNPL6-04                                                                            | TNPL10-04 | TNPL16-04 |
| TNPC8-01                                                                            | TNPC12-01 |           | TNPC6-03G                                                                           | TNPC10-03G | TNPC16-03G | TNPCF8-01                                                                           | TNPCF12-01 |            | TNPLF8-01                                                                           | TNPLF12-01 |            | TNPL8-01                                                                            | TNPL12-01 |           |
| TNPC8-02                                                                            | TNPC12-02 |           | TNPC6-04G                                                                           | TNPC10-04G | TNPC16-04G | TNPCF8-02                                                                           | TNPCF12-02 |            | TNPLF8-02                                                                           | TNPLF12-02 |            | TNPL8-02                                                                            | TNPL12-02 |           |

| TNPL-G Series                                                                       |            |            | TNPH Series                                                                         |           |           | TNPH-G Series                                                                       |            |            | TNPB Series                                                                         |           |           | TNPB-G Series                                                                       |            |            |
|-------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|-----------|-----------|-------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------|-----------|-----------|-------------------------------------------------------------------------------------|------------|------------|
| Specification: G-type Threaded Elbow Fitting                                        |            |            | Specification: External Hex Fitting                                                 |           |           | Specification: G-type External Hex Fitting                                          |            |            | Specification: Threaded Straight Tee                                                |           |           | Specification: G-type Threaded Straight Tee                                         |            |            |
|  |            |            |  |           |           |  |            |            |  |           |           |  |            |            |
| Model                                                                               |            |            | Model                                                                               |           |           | Model                                                                               |            |            | Model                                                                               |           |           | Model                                                                               |            |            |
| TNPL4-M5                                                                            | TNPL8-01G  | TNPL12-01G | TNPH4-01                                                                            | TNPH8-03  | TNPH12-04 | TNPH4-M5                                                                            | TNPH8-01G  | TNPH12-02G | TNPB4-01                                                                            | TNPB8-03  | TNPB12-03 | TNPB4-M5                                                                            | TNPB8-01G  | TNPB12-01G |
| TNPL4-01G                                                                           | TNPL8-02G  | TNPL12-02G | TNPH4-02                                                                            | TNPH8-04  | TNPH14-04 | TNPH4-01G                                                                           | TNPH8-02G  | TNPH12-03G | TNPB4-02                                                                            | TNPB8-04  | TNPB12-04 | TNPB4-01G                                                                           | TNPB8-02G  | TNPB12-02G |
| TNPL4-02G                                                                           | TNPL8-03G  | TNPL12-03G | TNPH6-01                                                                            | TNPH10-01 | TNPH16-04 | TNPH4-02G                                                                           | TNPH8-03G  | TNPH12-04G | TNPB6-01                                                                            | TNPB10-01 | TNPB14-03 | TNPB4-02G                                                                           | TNPB8-03G  | TNPB12-03G |
| TNPL6-M5                                                                            | TNPL8-04G  | TNPL12-04G | TNPH6-02                                                                            | TNPH10-02 |           | TNPH6-M5                                                                            | TNPH8-04G  |            | TNPB6-02                                                                            | TNPB10-02 | TNPB14-04 | TNPB6-M5                                                                            | TNPB8-04G  | TNPB12-04G |
| TNPL6-01G                                                                           | TNPL10-01G | TNPL14-03G | TNPH6-03                                                                            | TNPH10-03 |           | TNPH6-01G                                                                           | TNPH10-01G |            | TNPB6-03                                                                            | TNPB10-03 | TNPB16-03 | TNPB6-01G                                                                           | TNPB10-01G | TNPB14-03G |
| TNPL6-02G                                                                           | TNPL10-02G | TNPL14-04G | TNPH6-04                                                                            | TNPH10-04 |           | TNPH6-02G                                                                           | TNPH10-02G |            | TNPB6-04                                                                            | TNPB10-04 | TNPB16-04 | TNPH6-02G                                                                           | TNPH10-02G | TNPL14-04G |
| TNPL6-03G                                                                           | TNPL10-03G | TNPL16-03G | TNPH8-01                                                                            | TNPH12-02 |           | TNPH6-03G                                                                           | TNPH10-03G |            | TNPB8-01                                                                            | TNPB12-01 |           | TNPB6-03G                                                                           | TNPB10-03G | TNPB16-03G |
| TNPL6-04G                                                                           | TNPL10-04G | TNPL16-04G | TNPH8-02                                                                            | TNPH12-03 |           | TNPH6-04G                                                                           | TNPH10-04G |            | TNPB8-02                                                                            | TNPB12-02 |           | TNPB6-04G                                                                           | TNPB10-04G | TNPB16-04G |

| TNPD Series                                                                           |           |           | TNPD-G Series                                                                         |            |            | TNP Series                                                                            |  |  | TNPG Series                                                                           |  |           | TNPM Series                                                                           |  |        |
|---------------------------------------------------------------------------------------|-----------|-----------|---------------------------------------------------------------------------------------|------------|------------|---------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|--|-----------|---------------------------------------------------------------------------------------|--|--------|
| Specification: Threaded Side Tee                                                      |           |           | Specification: G-type Threaded Side Tee                                               |            |            | Specification: Straight Fitting                                                       |  |  | Specification: Straight Reducer Fitting                                               |  |           | Specification: Bulkhead Straight Fitting                                              |  |        |
|  |           |           |  |            |            |  |  |  |  |  |           |  |  |        |
| Model                                                                                 |           |           | Model                                                                                 |            |            | Model                                                                                 |  |  | Model                                                                                 |  |           | Model                                                                                 |  |        |
| TNPD4-01                                                                              | TNPD8-03  | TNPD12-03 | TNPD4-M5                                                                              | TNPD8-01G  | TNPD12-01G | TNPU4                                                                                 |  |  | TNPG4-6                                                                               |  | TNPG12-14 |                                                                                       |  | TNPM4  |
| TNPD4-02                                                                              | TNPD8-04  | TNPD12-04 | TNPD4-01G                                                                             | TNPD8-02G  | TNPD12-02G | TNPU6                                                                                 |  |  | TNPG4-8                                                                               |  | TNPG12-16 |                                                                                       |  | TNPM6  |
| TNPD6-01                                                                              | TNPD10-01 | TNPD14-03 | TNPD4-02G                                                                             | TNPD8-03G  | TNPD12-03G | TNPU8                                                                                 |  |  | TNPG6-8                                                                               |  | TNPG14-16 |                                                                                       |  | TNPM8  |
| TNPD6-02                                                                              | TNPD10-02 | TNPD14-04 | TNPD6-M5                                                                              | TNPD8-04G  | TNPD12-04G | TNPU10                                                                                |  |  | TNPG6-10                                                                              |  |           |                                                                                       |  | TNPM10 |
| TNPD6-03                                                                              | TNPD10-03 | TNPD16-03 | TNPD6-01G                                                                             | TNPD10-01G | TNPD14-03G | TNPU12                                                                                |  |  | TNPG8-10                                                                              |  |           |                                                                                       |  | TNPM12 |
| TNPD6-04                                                                              | TNPD10-04 | TNPD16-04 | TNPD6-02G                                                                             | TNPD10-02G | TNPD14-04G | TNPU14                                                                                |  |  | TNPG8-12                                                                              |  |           |                                                                                       |  | TNPM14 |
| TNPD8-01                                                                              | TNPD12-01 |           | TNPD6-03G                                                                             | TNPD10-03G | TNPD16-03G | TNPU16                                                                                |  |  | TNPG10-12                                                                             |  |           |                                                                                       |  | TNPM16 |
| TNPD8-02                                                                              | TNPD12-02 |           | TNPD6-04G                                                                             | TNPD10-04G | TNPD16-04G |                                                                                       |  |  | TNPG10-14                                                                             |  |           |                                                                                       |  |        |

| TNPV Series                                                                           |  | TNPE Series                                                                           |  | TNPEG Series                                                                          |            | TNPZA Series                                                                          |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|--|
| Specification: Right-Angle Elbow Fitting                                              |  | Specification: T-type Tee Fitting                                                     |  | Specification: T-type Reducer Tee Fitting                                             |            | Specification: Cross Fitting                                                          |  |
|  |  |  |  |  |            |  |  |
| Model                                                                                 |  | Model                                                                                 |  | Model                                                                                 |            | Model                                                                                 |  |
| TNPV4                                                                                 |  | TNPE4                                                                                 |  | TNPEG6-4                                                                              | TNPEG14-12 | TNPZA4                                                                                |  |
| TNPV6                                                                                 |  | TNPE6                                                                                 |  | TNPEG8-4                                                                              | TNPEG16-12 | TNPZA6                                                                                |  |
| TNPV8                                                                                 |  | TNPE8                                                                                 |  | TNPEG8-6                                                                              | TNPEG16-14 | TNPZA8                                                                                |  |
| TNPV10                                                                                |  | TNPE10                                                                                |  | TNPEG10-6                                                                             |            | TNPZA10                                                                               |  |
| TNPV12                                                                                |  | TNPE12                                                                                |  | TNPEG10-8                                                                             |            | TNPZA12                                                                               |  |
| TNPV14                                                                                |  | TNPE14                                                                                |  | TNPEG12-8                                                                             |            | TNPZA14                                                                               |  |
| TNPV16                                                                                |  | TNPE16                                                                                |  | TNPEG12-10                                                                            |            | TNPZA16                                                                               |  |
|                                                                                       |  |                                                                                       |  | TNPEG14-12                                                                            |            |                                                                                       |  |

## Copper Quick Screw Fitting

|                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                |                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TSL Series</b><br>Specification:One-Way Valve Quick Plug-in Type Fitting<br>                                                                                     | <b>TSL-G Series</b><br>Specification:G-Type One-Way Valve Quick Plug-in Type Fitting<br>                                                          | <b>TSQ Series</b><br>Specification:One-Way Valve Quick Plug-in Type Fitting<br>                                                              | <b>TSQ-G Series</b><br>Specification:G-Type One-Way Valve Quick Plug-in Type Fitting<br>                                                     | <b>TNSL Series</b><br>Specification:One-Way Valve Quick-Twist Type Fitting<br>                                                        |
| <b>Model</b><br>TSL4-01 TSL8-03 TSL12-04<br>TSL4-02 TSL8-04 TSL16-04<br>TSL6-01 TSL10-01<br>TSL6-02 TSL10-02<br>TSL6-03 TSL10-03<br>TSL6-04 TSL10-04<br>TSL8-01 TSL12-02<br>TSL8-02 TSL12-03                                                         | <b>Model</b><br>TSL4-M5 TSL8-02G TSL12-03G<br>TSL4-01G TSL8-03G TSL12-04G<br>TSL4-02G TSL8-04G TSL16-04G<br>TSL6-01G TSL10-01G<br>TSL6-02G TSL10-02G<br>TSL6-03G TSL10-03G<br>TSL6-04G TSL10-04G<br>TSL8-01G TSL12-02G             | <b>Model</b><br>TSQ4-01 TSQ8-03 TSQ12-04<br>TSQ4-02 TSQ8-04 TSQ16-04<br>TSQ6-01 TSQ10-01<br>TSQ6-02 TSQ10-02<br>TSQ6-03 TSQ10-03<br>TSQ6-04 TSQ10-04<br>TSQ8-01 TSQ12-02<br>TSQ8-02 TSQ12-03                                  | <b>Model</b><br>TSQ4-M5 TSQ8-01G TSQ12-02G<br>TSQ4-01G TSQ8-02G TSQ12-03G<br>TSQ4-02G TSQ8-03G TSQ12-04G<br>TSQ6-M5 TSQ8-04G TSQ16-04G<br>TSQ6-01G TSQ10-01G<br>TSQ6-02G TSQ10-02G<br>TSQ6-03G TSQ10-03G<br>TSQ6-04G TSQ10-04G | <b>Model</b><br>TNSL4-01 TNSL8-03 TNSL12-04<br>TNSL4-02 TNSL8-04 TNSL14-04<br>TNSL6-01 TNSL10-01 TNSL16-04<br>TNSL6-02 TNSL10-02<br>TNSL6-03 TNSL10-03<br>TNSL6-04 TNSL10-04<br>TNSL8-01 TNSL12-02<br>TNSL8-02 TNSL12-03 |
| <b>TNSL-G Series</b><br>Specification:G-Type One-Way Valve Quick-Twist Type Fitting<br>                                                                             | <b>TNSQ Series</b><br>Specification:One-Way Valve Quick Plug-in Type Fitting<br>                                                                  | <b>TNSQ-G Series</b><br>Specification:G-Type One-Way Valve Quick-Twist Type Fitting<br>                                                      | <b>TSLF Series</b><br>Specification:One-Way Valve Internal Thread Fitting<br>                                                                | <b>TSLF-G Series</b><br>Specification:G-Type One-Way Valve Internal Thread Fitting<br>                                                |
| <b>Model</b><br>TNSL4-M5 TNSL8-02G TNSL12-03G<br>TNSL4-01G TNSL8-03G TNSL12-04G<br>TNSL4-02G TNSL8-04G TNSL14-04G<br>TNSL6-01G TNSL10-01G TNSL16-04G<br>TNSL6-02G TNSL10-02G<br>TNSL6-03G TNSL10-03G<br>TNSL6-04G TNSL10-04G<br>TNSL8-01G TNSL12-02G | <b>Model</b><br>TNSQ4-01 TNSQ8-03 TNSQ12-03<br>TNSQ4-02 TNSQ8-04 TNSQ12-04<br>TNSQ6-01 TNSQ10-01 TNSQ14-04<br>TNSQ6-02 TNSQ10-02 TNSQ16-04<br>TNSQ6-03 TNSQ10-03<br>TNSQ6-04 TNSQ10-04<br>TNSQ8-01 TNSQ12-01<br>TNSQ8-02 TNSQ12-02 | <b>Model</b><br>TNSQ4-M5 TNSQ8-02G TNSQ12-02G<br>TNSQ4-01G TNSQ8-03G TNSQ12-03G<br>TNSQ6-01G TNSQ10-01G TNSQ14-04G<br>TNSQ6-02G TNSQ10-02G TNSQ16-04G<br>TNSQ6-03G TNSQ10-03G<br>TNSQ6-04G TNSQ10-04G<br>TNSQ8-01G TNSQ12-01G | <b>Model</b><br>TSLF1/8-01<br>TSLF1/4-02<br>TSLF3/8-03<br>TSLF1/2-04                                                                                                                                                           | <b>Model</b><br>TSLFM5-M5<br>TSLF1/8-01G<br>TSLF1/4-02G<br>TSLF3/8-03G<br>TSLF1/2-04G                                                                                                                                    |
| <b>TSQF Series</b><br>Specification:One-Way Valve Internal Thread Fitting<br>                                                                                     | <b>TSQF-G Series</b><br>Specification:G-Type One-Way Valve Internal Thread Fitting<br>                                                          |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                |                                                                                                                                                                                                                          |
| <b>Model</b><br>TSQFM5-M5<br>TSQF1/8-01<br>TSQF1/4-02<br>TSQF3/8-03<br>TSQF1/2-04                                                                                                                                                                    | <b>Model</b><br>TSQFM5-M5<br>TSQF1/8-01G<br>TSQF1/4-02G<br>TSQF3/8-03G<br>TSQF1/2-04G                                                                                                                                              |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                |                                                                                                                                                                                                                          |

## XCPCV Series Copper Pilot No-return Valve

| Product Images                                                                      | XCPCV       | 06                                                | F                                                                     |                                       |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------|
|  | Series Code | Pipe Size<br>06:1/8<br>08:1/4<br>10:3/8<br>15:1/2 | Pilot Port Type<br>Unmarked:internal thread<br>F:plug-in fitting type | Thread<br>Unmarked:PT<br>G:G<br>T:NPT |

## Stainless Steel Quick Plug-in Fitting

|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                |                                                                                                                                                                                  |                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPC Series</b><br>Specification:Threaded Straight Fitting<br>                                                                                    | <b>SPL Series</b><br>Specification:Threaded Elbow Fitting<br>                                                                               | <b>SPOC Series</b><br>Specification:Threaded Round Straight Fitting<br>                       | <b>SPCF Series</b><br>Specification:Internal Thread Straigh Fitting<br>                                                       |
| <b>Model</b><br>SPC4-M5 SPC6-04 SPC10-04<br>SPC4-01 SPC8-01 SPC12-01<br>SPC4-02 SPC8-02 SPC12-02<br>SPC4-03 SPC8-03 SPC12-03<br>SPC6-M5 SPC8-04 SPC12-04<br>SPC6-01 SPC10-01 SPC16-03<br>SPC6-02 SPC10-02 SPC16-04<br>SPC6-03 SPC10-03 | <b>Model</b><br>SPL4-M5 SPL8-01 SPL12-01<br>SPL4-01 SPL8-02 SPL12-02<br>SPL4-02 SPL8-03 SPL12-03<br>SPL6-M5 SPL8-04 SPL12-04<br>SPL6-01 SPL10-01 SPL16-03<br>SPL6-02 SPL10-02 SPL16-04<br>SPL6-03 SPL10-03<br>SPL6-04 SPL10-04 | <b>Model</b><br>SPOC4-M5 SPOC10-01 SPOC16-04<br>SPOC4-01 SPOC10-02<br>SPOC6-M5 SPOC10-03<br>SPOC6-01 SPOC10-04<br>SPOC6-02 SPOC12-02<br>SPOC8-02 SPOC12-04<br>SPOC8-03 SPOC16-03 | <b>Model</b><br>SPCF4-01RC SPCF10-02RC<br>SPCF4-02RC SPCF10-03RC<br>SPCF6-01RC SPCF12-02RC<br>SPCF6-02RC SPCF12-03RC<br>SPCF6-03RC SPCF12-04RC<br>SPCF8-01RC SPCF16-03RC<br>SPCF8-02RC SPCF16-04RC<br>SPCF8-03RC |
| <b>SPB Series</b><br>Specification:Threaded Straigh Tee Fitting<br>                                                                                 | <b>SSL Series</b><br>Specification:Flow Control Valve<br>                                                                                   | <b>SPE Series</b><br>Specification:T-type Tee<br>                                             | <b>SPEG Series</b><br>Specification:T-type Reducer Tee Fitting<br>                                                            |
| <b>Model</b><br>SPB4-M5 SPB8-03 SPB16-03<br>SPB4-01 SPB10-01 SPB16-04<br>SPB4-02 SPB10-02<br>SPB6-M5 SPB10-03<br>SPB6-01 SPB10-04<br>SPB6-02 SPB12-02<br>SPB8-01 SPB12-03<br>SPB8-02 SPB12-04                                          | <b>Model</b><br>SSL4-M5 SSL8-03<br>SSL4-01 SSL8-04<br>SSL6-01 SSL10-02<br>SSL6-02 SSL10-03<br>SSL6-03 SSL10-04<br>SSL6-04 SSL12-02<br>SSL8-01 SSL12-03<br>SSL8-02 SSL12-04                                                     | <b>Model</b><br>SPE4<br>SPE6<br>SPE8<br>SPE10<br>SPE12<br>SPE16                                                                                                                  | <b>Model</b><br>SPEG4-6-4<br>SPEG6-8-6<br>SPEG8-10-8<br>SPEG10-12-10<br>SPEG12-16-12                                                                                                                             |
| <b>SPV Series</b><br>Specification:Right-Angle Elbow Fitting<br>                                                                                  | <b>SPY Series</b><br>Specification:Y-type Tee<br>                                                                                         | <b>SPW Series</b><br>Specification:Y-type Reducer Tee<br>                                   | <b>SPU Series</b><br>Specification:Straigh Fitting<br>                                                                      |
| <b>Model</b><br>SPV4<br>SPV6<br>SPV8<br>SPV10<br>SPV12<br>SPV16                                                                                                                                                                        | <b>Model</b><br>SPY4<br>SPY6<br>SPY8<br>SPY10<br>SPY12<br>SPY16                                                                                                                                                                | <b>Model</b><br>SPW6-4<br>SPW8-6<br>SPW10-8<br>SPW12-10<br>SPW16-12                                                                                                              | <b>Model</b><br>SPU4<br>SPU6<br>SPU8<br>SPU10<br>SPU12<br>SPU16                                                                                                                                                  |

|                                                                                                                                                     |                                                                                                                                                       |                                                                                                                                                    |                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPG Series</b><br>Specification:Straigh Reducer Fitting<br> | <b>SPM Series</b><br>Specification:Bulkhead Straight Fitting<br> | <b>SMPP Series</b><br>Specification:Quick Plug-in Fitting<br> | <b>SPLL Series</b><br>Specification:Extended Threaded Elbow Fitting<br>                                                   |
| <b>Model</b><br>SPG4-6<br>SPG6-8<br>SPG8-10<br>SPG10-12<br>SPG12-16                                                                                 | <b>Model</b><br>SPM4<br>SPM6<br>SPM8<br>SPM10<br>SPM12<br>SPM16                                                                                       | <b>Model</b><br>SMPP4<br>SMPP6<br>SMPP8<br>SMPP10<br>SMPP12<br>SMPP16                                                                              | <b>Model</b><br>SPLL4-M5 SPLL8-03 SPLL16-03<br>SPLL4-01 SPLL8-04 SPLL16-04<br>SPLL4-02 SPLL10-02<br>SPLL6-M5 SPLL10-03<br>SPLL6-01 SPLL10-04<br>SPLL6-02 SPLL12-02<br>SPLL8-01 SPLL12-03<br>SPLL8-02 SPLL12-04 |

## Stainless Steel Quick Screw Fitting

| SNPC Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SNPB Series                                                                                                                                                                                                                                                                                        | SNPL Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SNVL Series                                                                                                                                                                                                                                                                                        | SNPU Series                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Specification: Threaded Straight Fitting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Specification: Threaded Straight Tee Fitting                                                                                                                                                                                                                                                       | Specification: Threaded Rotary Elbow Fitting                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Specification: Threaded Elbow Fitting                                                                                                                                                                                                                                                              | Specification: Straight Fitting                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                  |                                                           |
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Model                                                                                                                                                                                                                                                                                              | Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Model                                                                                                                                                                                                                                                                                              | Model                                                                                                                                        |
| SNPC0425-01 SNPC1065-01 SNPC1208-03<br>SNPC0425-02 SNPC1065-02 SNPC1208-04<br>SNPC0604-01 SNPC1065-03 SNPC1209-02<br>SNPC0604-02 SNPC1065-04 SNPC1209-03<br>SNPC0604-03 SNPC1075-01 SNPC1209-04<br>SNPC0604-04 SNPC1075-02 SNPC1210-02<br>SNPC0805-01 SNPC1075-03 SNPC1210-03<br>SNPC0805-02 SNPC1075-04 SNPC1210-04<br>SNPC0805-03 SNPC1008-01 SNPC1612-03<br>SNPC0805-04 SNPC1008-02 SNPC1612-04<br>SNPC0806-01 SNPC1008-03 SNPC1613-03<br>SNPC0806-02 SNPC1008-04 SNPC1613-04<br>SNPC0806-03 SNPC1208-01<br>SNPC0806-04 SNPC1208-02 | SNPB0425-01 SNPB1209-03<br>SNPB0425-02 SNPB1209-04<br>SNPB0604-01 SNPB1210-02<br>SNPB0604-02 SNPB1210-03<br>SNPB0806-01 SNPB1210-04<br>SNPB0806-02 SNPB1613-03<br>SNPB0806-03 SNPB1613-04<br>SNPB1075-01<br>SNPB1075-02<br>SNPB1075-03<br>SNPB1008-02<br>SNPB1008-03<br>SNPB1008-04<br>SNPB1209-02 | SNPL0425-01 SNPL1065-01 SNPL1208-04<br>SNPL0425-02 SNPL1065-02 SNPL1209-02<br>SNPL0604-01 SNPL1065-03 SNPL1209-03<br>SNPL0604-02 SNPL1065-04 SNPL1209-04<br>SNPL0604-03 SNPL1075-01 SNPL1210-02<br>SNPL0604-04 SNPL1075-02 SNPL1210-03<br>SNPL0805-01 SNPL1075-03 SNPL1210-04<br>SNPL0805-02 SNPL1075-04 SNPL1612-03<br>SNPL0805-03 SNPL1008-01 SNPL1612-04<br>SNPL0805-04 SNPL1008-02 SNPL1613-03<br>SNPL0806-01 SNPL1008-03 SNPL1613-04<br>SNPL0806-02 SNPL1008-04<br>SNPL0806-03 SNPL1208-02<br>SNPL0806-04 SNPL1208-03 | SNVL0425-01 SNVL1209-03<br>SNVL0425-02 SNVL1209-04<br>SNVL0604-01 SNVL1210-02<br>SNVL0604-02 SNVL1210-03<br>SNVL0806-01 SNVL1210-04<br>SNVL0806-02 SNVL1613-03<br>SNVL0806-03 SNVL1613-04<br>SNVL1075-02<br>SNVL1075-03<br>SNVL1075-04<br>SNVL1008-02<br>SNVL1008-03<br>SNVL1008-04<br>SNVL1209-02 | SNPU0425<br>SNPU0604<br>SNPU0805<br>SNPU0806<br>SNPU1065<br>SNPU1075<br>SNPU1008<br>SNPU1208<br>SNPU1209<br>SNPU1210<br>SNPU1612<br>SNPU1613 |

| SNPM Series                                                                                                                                  | SNPE Series                                                                                                                                  | SNPCF Series                                                                                                                 | SNPV Series                                                                                  | SNPG Series                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification: Bulkhead Straight Fitting                                                                                                     | Specification: T-type Tee Fitting                                                                                                            | Specification: Internal Thread Straight Fitting                                                                              | Specification: Right-Angle Elbow Fitting                                                     | Specification: Straight Reducer Fitting                                                                                                                                                                  |
|                                                            |                                                            |                                            |           |                                                                                                                      |
| Model                                                                                                                                        | Model                                                                                                                                        | Model                                                                                                                        | Model                                                                                        | Model                                                                                                                                                                                                    |
| SNPM0425<br>SNPM0604<br>SNPM0805<br>SNPM0806<br>SNPM1065<br>SNPM1075<br>SNPM1008<br>SNPM1208<br>SNPM1209<br>SNPM1210<br>SNPM1612<br>SNPM1613 | SNPE0425<br>SNPE0604<br>SNPE0805<br>SNPE0806<br>SNPE1065<br>SNPE1075<br>SNPE1008<br>SNPE1208<br>SNPE1209<br>SNPE1210<br>SNPE1612<br>SNPE1613 | SNPCF0425-02<br>SNPCF0604-02<br>SNPCF0806-03<br>SNPCF1075-03<br>SNPCF1008-03<br>SNPCF1209-03<br>SNPCF1210-03<br>SNPCF1613-04 | SNPV0425<br>SNPV0604<br>SNPV0806<br>SNPV1075<br>SNPV1008<br>SNPV1209<br>SNPV1210<br>SNPV1613 | SNPG0425-0604<br>SNPG0604-0805<br>SNPG0604-1065<br>SNPG0604-1208<br>SNPG0805-1065<br>SNPG0805-1208<br>SNPG0806-1008<br>SNPG0806-1210<br>SNPG1065-1208<br>SNPG1008-1210<br>SNPG1208-1612<br>SNPG1210-1613 |

## MQR Series Low Torque Rotary Joint Metal Seal Type

| Product Images                                                                      | MQR         | F                                                            | 4                                                                                               | M5                   |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|
|  | Series Code | Pilot Port Type<br>Unmarked: standard type<br>F: flange type | Port Quantity<br>1: 1 port<br>2: 2 port<br>4: 4 port<br>8: 8 port<br>12: 12 port<br>16: 16 port | Thread<br>M5: M5×0.8 |



