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Honeywell Process Solution

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70-16-30-06-EN
 December 2006

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Control Valve Products



Honeywell Solutions for Field Instruments

Honeywell

Perfect Performance, Easy Maintenance, Parts Interchangeability, Long Life, Short Delivery, Reasonable Price, Prompt Service

Honeywell combines these essential ingredients to manufacture the most excellent control valves in the world.

High technology and innovation are essential ingredients in Honeywell control solutions. Our standard models are perfectly suited for severe service conditions such as: cryogenic, super heated steam, volatile fluids, corrosive fluids, cavitation, flashing, vibration and high noise levels. These are typical of the challenges found in nuclear power plants, thermal power plants, oil refineries, iron and other industries.

Honeywell's investment in research and development provides assurance to our customers that valves purchased today will not be obsolete tomorrow.

Count on Honeywell to deliver control valve solutions that meet and exceed your expectations.



Series 9110 Single/Double Seated Globe Valves
ANSI 150 - 600 / JIS 10K-40K
DIN/BS 4504 PN10-PN40

General

The Series 9110 control valves has been developed to provide a cost effective solution to the " final control element" used in modern plants.

The valve design combines the successful high integrity features of the series 9110 with a high capacity, economic design philosophy as well as excellent control.

Performance :

- High Cv to body size ratio.
- Streamlined flow passages to optimize capacity.
- High Cv to valve weight ratio.
- Excellent flow control rangeability.

Design Flexibility :

- Modular construction design available with a range of different connections and styles.
- All trim components removable from the top for easy of maintenance.
- Wide range of supplementary noise control options.
- Inherently characterized trim offered in equal percentage, linear, quick opening and modified-parabolic (options).
- Multi trim sizes available.
- Full range of body and trim material options.
- Fully rationalized and interchangeable features.
- Full range of bonnet and packing designs to suit various temperatures and fluids.



Series 9110 Valve incorporating Contoured Trim and complete with Series 6100 Actuator

Globe Valve Specifications

| | | | | | | | | | | | | | | |
|----------------------------|---|-----|----|-------|----|-------|----|-----|-----|-----|-----|-----|-----|-----|
| Valve Type | Diaphragm Operated Globe Control Valve | | | | | | | | | | | | | |
| Valve Model | Series 9110 | | | | | | | | | | | | | |
| Body Type | Conventional, Teflon block, Small body, Double seat | | | | | | | | | | | | | |
| Trim Type | S-P, C-B, C-P, C-S, C-B-S, C-D, Optional Special Valve | | | | | | | | | | | | | |
| Valve Size (in) | 1/2 | 3/4 | 1 | 1.1/2 | 2 | 2.1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
| (mm) | 15 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| Pressure Rating | ANSI 150#~600# (JIS 10K~40K, PN 10~40) | | | | | | | | | | | | | |
| End Connection | RF, FF, SW, BW, Screw, RTJ | | | | | | | | | | | | | |
| Body Materials | A216WCB, A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | | |
| Bonnet Type | Plain(-17°C to 230°C), Extension(-45°C to -17°C over 230°C), Cryogenic(-196°C to -45°C) | | | | | | | | | | | | | |
| Packing | Graphite foil, Carbon fiber, Teflon fiber | | | | | | | | | | | | | |
| Gasket | Spiral Wound Metal gasket | | | | | | | | | | | | | |
| Guiding | Top/Cage | | | | | | | | | | | | | |
| Seat Type | Metal/Soft | | | | | | | | | | | | | |
| Valve Plug Shapes | Contoured/ Cage/ Pilot | | | | | | | | | | | | | |
| Plug Characteristic | Equal Percentage/Linear/Modified-Parabolic/Quick Opening | | | | | | | | | | | | | |
| Trim Materials | A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | | |

Series 9120 Seated Angle Valves
ANSI 150 - 600 / JIS 10K-40K
DIN/BS 4504 PN10-PN40

General

The Series 9120 Angle-type control valve is indispensable to control fluid of high differential pressure, slurry, high viscosity, or adhesive. They are provided with a number of features such as low resistance of passage, antiwear quality within the valve, and easy maintenance and inspection.

Performance :

- High Cv to body size ratio
- Streamlined flow passages to optimize capacity
- High Cv to valve weight ratio
- Excellent flow control rangeability

Design Flexibility :

- Modular construction design available with a range of different connections and styles
- All trim components removable from the top for easy of maintenance
- Wide range of supplementary noise control options
- Inherently characterized trim offered in equal percentage, linear, quick opening and modified-parabolic (options)
- Multi trim sizes available
- Full range of body and trim material options
- Fully rationalized and interchangeable features
- Full range of bonnet and packing designs to suit various temperatures and fluids



Series 9120 Valve incorporating Contoured Trim and complete with Series 6100 Actuator

Angle Valve Specifications

| | | | | | | | | | | | | |
|----------------------------|---|-----|----|-------|----|-------|----|-----|-----|-----|--|--|
| Valve Type | Diaphragm Operated Angle Control Valve | | | | | | | | | | | |
| Valve Model | Series 9210 | | | | | | | | | | | |
| Trim Type | S-P, C-B, C-P, C-S, C-B-S, C-D, Optional Special Valve | | | | | | | | | | | |
| Valve Size (in) | 1/2 | 3/4 | 1 | 1.1/2 | 2 | 2.1/2 | 3 | 4 | 5 | 6 | | |
| (mm) | 15 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | | |
| Pressure Rating | ANSI 150#~600# (JIS 10K~40K, PN 10~40) | | | | | | | | | | | |
| End Connection | RF, FF, SW, BW, Screw, RTJ | | | | | | | | | | | |
| Body Materials | A216WCB, A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | |
| Bonnet Type | Plain(-17°C to 230°C), Extension(-45°C to -17°C over 230°C), Cryogenic(-196°C to -45°C) | | | | | | | | | | | |
| Packing | Graphite foil, Carbon fiber, Teflon fiber | | | | | | | | | | | |
| Gasket | Spiral Wound Metal gasket | | | | | | | | | | | |
| Guiding | Top/Cage | | | | | | | | | | | |
| Seat Type | Metal/Soft | | | | | | | | | | | |
| Valve Plug Shapes | Contoured/ Cage/ Pilot | | | | | | | | | | | |
| Plug Characteristic | Equal Percentage/Linear/Modified-Parabolic/Quick Opening | | | | | | | | | | | |
| Trim Materials | A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | |

Series 9130 Mixing / Diverting Seated 3-Way Valves
ANSI 150 - 600 / JIS 10K-40K
DIN/BS 4504 PN10-PN40

General

Three-way type control valves are used for controlling the fluids mutually to three directional pipings, i.e., mixing service and diverting service.

Performance :

- High Cv to body size ratio
- Streamlined flow passages to optimize capacity
- High Cv to valve weight ratio
- Excellent flow control rangeability

Design Flexibility :

- Modular construction design available with a range of different connections and styles.
- All trim components removable from the top for easy of maintenance.
- Wide range of supplementary noise control options.
- Inherently characterized trim offered in equal percentage, linear, quick opening and modified-parabolic (options).
- Multi trim sizes available.
- Full range of body and trim material options.
- Fully rationalized and interchangeable features.
- Full range of bonnet and packing designs to suit various temperatures and fluids.



Series 9130 Valve incorporating Contoured Trim and complete with Series 6100 Actuator

3-way Valve Specifications

| | | | | | | | | | | | | | |
|---------------------|---|----|-------|----|-------|----|-----|-----|-----|-----|-----|-----|--|
| Valve Type | Diaphragm Operated 3-way Control Valve | | | | | | | | | | | | |
| Valve Model | Series 9130 | | | | | | | | | | | | |
| Body Type | Mixing/Diverting | | | | | | | | | | | | |
| Valve Size (in) | 3/4 | 1 | 1.1/2 | 2 | 2.1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | |
| (mm) | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | |
| Pressure Rating | ANSI 150#~600# (JIS 10K~40K, PN 10~40) | | | | | | | | | | | | |
| End Connection | RF, FF, SW, BW, Screw, RTJ | | | | | | | | | | | | |
| Body Materials | A216WCB, A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | |
| Bonnet Type | Plain(-17℃ to 230℃), Extension(-45℃ to -17℃, over 230℃), Cryogenic(-196℃ to -45℃) | | | | | | | | | | | | |
| Packing | Graphite foil, Carbon fiber, Teflon fiber | | | | | | | | | | | | |
| Gasket | Spiral Wound Metal gasket | | | | | | | | | | | | |
| Guiding | Top/Cage | | | | | | | | | | | | |
| Seat Type | Metal/Soft | | | | | | | | | | | | |
| Valve Plug Shapes | Contoured/ Cage | | | | | | | | | | | | |
| Plug Characteristic | Linear | | | | | | | | | | | | |
| Trim Materials | A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | |

Series 9210 High Performance Butterfly Valves
ANSI 150-300 / JIS 10K-20K
DIN/BS 4504 PN10-PN25

General

The series 9210 butterfly valves has been developed for a large number of applications throughout process industries. The series 9210 high performance butterfly valves is mainly used for the control of fluids flowing in large valve at low differential pressure. It offers additional advantages such as simple structure and low cost.

Performance :

- High Cv to valve weight ratio compared to conventional control valves.
- Throttling controls 60° rotation, on-off controls 90° rotation.
- Excellent control range ability.

Design Flexibility :

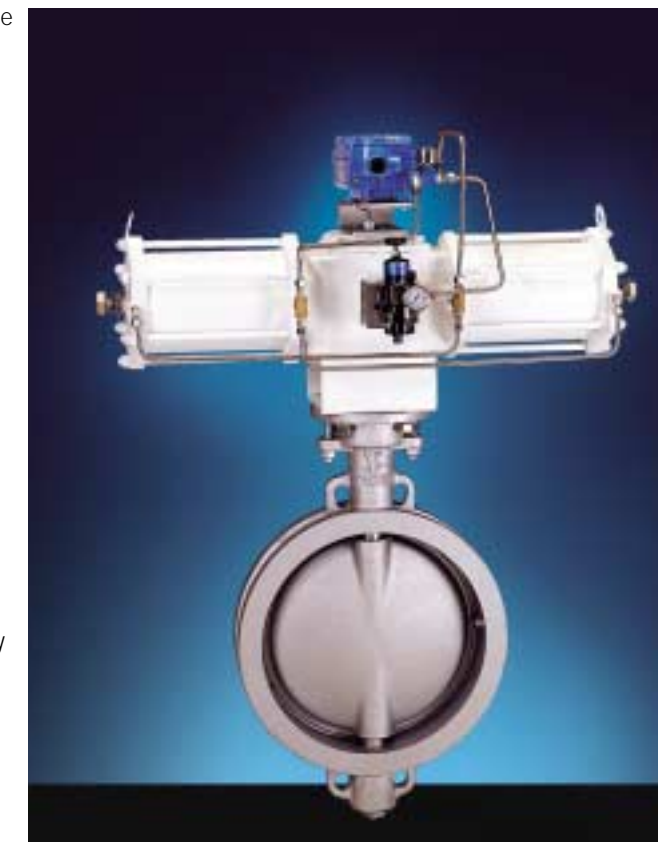
- Swing through and tight shut-off seated trim design.
- Flange connection versions available.
- Full range of bonnet and packing design to suit various temperatures and fluids.
- Provides fire safe sealing, which combines a soft seal ring and metal seal ring.
- Full range of body and vane material options, with availability of hard factings.

Design Integrity :

- Wafer type as standard.
- Double eccentric mechanism.
- Actuator mounting flange dimensions in accordance with ISO 5211/1-1977

Quality Manufacturing :

- Rigorously tested to ensure specified performance on site.
- Quality assurance systems in accordance with ISO 9001.



Series 9210 Butterfly Valve and complete with Series 6200 Actuator

Butterfly Valve Specifications

| | | | | | | | | | | | | | |
|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Valve Type | Diaphragm/Cylinder Operated Butterfly Control Valve | | | | | | | | | | | | |
| Valve Model | Series 9210 | | | | | | | | | | | | |
| Body Type | High Performance/Damper/TFE Lining/Rubber Lining | | | | | | | | | | | | |
| Valve Size (in) | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | |
| (mm) | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | |
| Pressure Rating | ANSI 150#~300# (JIS 10K~20K, PN 10~25) | | | | | | | | | | | | |
| End Connection | WF, RF, FF | | | | | | | | | | | | |
| Body Materials | A216WCB, A351CF8/CF8M | | | | | | | | | | | | |
| Bonnet Type | Plain(-17℃ to 230℃), Extension(-45℃ to -17℃, over 230℃), Cryogenic(-196℃ to -45℃) | | | | | | | | | | | | |
| Packing | Teflon, EPDM | | | | | | | | | | | | |
| Gasket | Graphite | | | | | | | | | | | | |
| Guiding | Bushing | | | | | | | | | | | | |
| Seat Type | Metal/Soft | | | | | | | | | | | | |
| Valve Plug Shapes | VANE | | | | | | | | | | | | |
| Plug Characteristic | Inherent | | | | | | | | | | | | |
| Trim Materials | A351CF8/CF8M, A351CF3/CF3M, and so on | | | | | | | | | | | | |

Series 9310 V-Notch Ball Valves
ANSI 150-300 / JIS 10K-20K
DIN/BS 4504 PN10-PN25

General

Series 9310 Valve is Top Entry, Full Bore, Trunnion, and stem ball type v-notched ball valve, which is exclusively designed for excellent proportional control as much as globe type control valves and manual valves. Series 9310 have special shape of disc which is suitable for accurate throttling control and on-off service not only general fluids but also critical condition in powders, slurry, gummy, fibrous material and other fluids having special characteristics.

Performance :

- High Cv body size ratio (Full bore)
- Controls through 90° rotation
- Excellent flow control rangeability
- Easy maintenance
- ISO standard Mounting Hole

Design Flexibility :

- Direct Mounting Actuator Design Flexibility
- Control any fluids
- Flow push seat design
- Full range of body and trim material options with available of hard facings
- Seat changeability
- Dual characteristics (Equal or Linear)
- Self-cleaning and tight seating
- Double-eccentric disc options



Series 9310 V-notched Ball Valve and complete with Series 6200 Actuator

V-notch Ball Valve Specifications

| | | | | | | | | | | | | | | | | |
|----------------------------|---|-----|----|-------|----|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Valve Type | Diaphragm/Cylinder Operated V-notch Ball Control Valve | | | | | | | | | | | | | | | |
| Valve Model | Series 9310 | | | | | | | | | | | | | | | |
| Valve Size (in) | 1/2 | 3/4 | 1 | 1.1/2 | 2 | 2.1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | |
| (mm) | 15 | 20 | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | |
| Pressure Rating | ANSI 150#~300# (JIS 10K~20K, PN 10~25) | | | | | | | | | | | | | | | |
| End Connection | RF, FF, SW, BW, Screw, RTJ | | | | | | | | | | | | | | | |
| Body Materials | A216WCB, A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | | | | |
| Bonnet Type | Plain(-17℃ to 230℃), Extension(-45℃ to -17℃, over 230℃), Cryogenic(-196℃ to -45℃) | | | | | | | | | | | | | | | |
| Packing | Graphite foil, Carbon fiber, Teflon fiber | | | | | | | | | | | | | | | |
| Gasket | Spiral Wound Metal gasket | | | | | | | | | | | | | | | |
| Guiding | Bushing | | | | | | | | | | | | | | | |
| Seat Type | Metal/Soft | | | | | | | | | | | | | | | |
| Valve Plug Shapes | V-port | | | | | | | | | | | | | | | |
| Plug Characteristic | Equal Percentage/Linear | | | | | | | | | | | | | | | |
| Trim Materials | A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | | | | |

Series 9410 Full Bore Seated Ball Valves
ANSI 150 - 600 / JIS 10K-40K
DIN/BS 4504 PN10-PN40

General

Series 9410 ball valves are off-the-shelf standard valves that incorporate many special features. This series of valves is designed for both pressure and vacuum service. The valves have multiple fire safe guards : a secondary metal seat ; a blowout-proof stem ; and a static electric grounding device. The Valves are available with a full bore and reduced bore.

Standard Specifications

Flanged end, 2-pcs split body construction, Floating ball design, Full bore or reduced bore, Fields serviceable, wrench/gear/actuator mounted.

Valve Class : ANSI 150-600

Test Pressure : As per API 6D Std.

- Shell -

(Hydrostatic)

Class 150 ; 425 psi (30 kg/cm²)

Class 300 ; 1100 psi (77 kg/cm²)

- Seat -

(Air)

Class 150 ; 80 psi (6 kgf/cm²)

Class 300 ; 80 psi (6 kgf/cm²)

Face to Face Dimension :

Per Apl 6D Std.(refer to dimension tables)

End Connections :

Flanged, conforming to ANSI B 16.5 The ball valves comply with one or more of the following standard specifications as to pressure, temperature ratings and dimensions: ANSI, API, BS, DIN, MSS.

Ball Valve Specifications

| | | | | | | | | | | | | | |
|----------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Valve Type | Cylinder Operated Ball Valve | | | | | | | | | | | | |
| Valve Model | Series 9410 | | | | | | | | | | | | |
| Body Type | 2-way, 3-way, 4-way | | | | | | | | | | | | |
| Valve Size (in) | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | |
| (mm) | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | |
| Pressure Rating | ANSI 150#~600# (JIS 10K~40K, PN 10~40) | | | | | | | | | | | | |
| End Connection | RF, FF, SW, BW, Screw, RTJ | | | | | | | | | | | | |
| Body Materials | A216WCB, A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | |
| Bonnet Type | Plain(-17℃ to 230℃), Extension(-45℃ to -17℃, over 230℃) | | | | | | | | | | | | |
| Packing | Teflon, EPDM | | | | | | | | | | | | |
| Guiding | O-ring | | | | | | | | | | | | |
| Seat Type | Metal/Soft | | | | | | | | | | | | |
| Valve Plug Shapes | Ball | | | | | | | | | | | | |
| Plug Characteristic | On-off | | | | | | | | | | | | |
| Trim Materials | A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on | | | | | | | | | | | | |



Series 9410 Full Bore Seated Ball Valve and complete with Series 6200 Actuator

Series 6100 Multispring Diaphragm Actuators

General

The Series 6100 Diaphragm actuators has been designed to control accurately the flow and pressure of fluid in response to demand of fine process control as well as various plant systems. These actuators have been developed for powerful and high performance pneumatic actuating of linear motion valves as well as rotating valves. It consist of four spring which are produced for high stiffness that is defined as the ability of the actuator to with stand suddenly changing dynamic force of fluids acting on the valve stem. The action of valves can be changed by removing of the cap and four mounting bolts, turning the actuator over, and replacing the cap.

- Simple cost effective design
- Long stroke and wide application
- Strong seating force
- Compact and light weight

Performance :

- Reliability
- High Power
- Full response
- Low Hysteresis
- Field Reversible

Design Flexibility :

- Reversible fail action without extra parts in the field.
- Wide selection of optional accessories available.
- Compact and simple design.
- Inviolat rolling diaphragm simplifies actuator design.
- Variable stroke up to 5".

Design Integrity :

- Multi spring construction.
- One piece spindle on top and bottom dry bushing guide.
- Low stressed alloy steel springs.

Quality Manufacturing :

- High quality material with trace ability throughout manufacture.
- Quality Assurance system in accordance with ISO 9001.
- Comprehensively tested to ensure specified preference on site.



Series 6100 Multispring Diaphragm Actuator

Diaphragm Actuator Specifications

| | | | | | | | | | |
|-----------------------|--|-----|-----|-----|-----|-----|-----|-----|--|
| Actuator Type | Multispring Diaphragm Actuator | | | | | | | | |
| Actuator Model | Series 6100 | | | | | | | | |
| Actuator Size (Model) | T-1 | T-2 | T-3 | T-3 | T-4 | T-4 | T-5 | T-5 | |
| Stroke (mm) | 20 | 25 | 38 | 50 | 50 | 100 | 100 | 130 | |
| Supply Pressure Range | Standard : 4.0kgf/cm ² (G), Range : 3.5 ~ 5.0 kgf/cm ² | | | | | | | | |
| Spring Range | 1.0~3.0 kgf/cm ² (G) | | | | | | | | |
| Body Materials | AL2024 / AC2B | | | | | | | | |
| Diaphragm Materials | EPDM/NBR | | | | | | | | |
| Guiding | Bushing | | | | | | | | |
| Movement | Reciprocate, Rotary (with rotary box) | | | | | | | | |

Series 6200 Rotary Piston Actuators

General

The Series 6200 Rotary piston actuator is designed to operate rotating valves, such as Ball valves, Butterfly valves and V-Notch valves for throttling or on-off service. This actuators are unique linkage type which converts linear motion torque at beginning which usually corresponds to the closed position of valves, and another peak of torque is produced at 60 degree of valves which correspond to the dynamic torque.

Performance :

- Ideal high torque
- Reliability
- Low hysteresis
- Light weight
- Easy maintenance

Design Flexibility :

- Double acting and spring return acting
- Single piston and double piston
- Wide selection of optional accessories available
- Wide adjustable range (maximum rotating angle - 110°)

Design Integrity :

- Maximum torque at beginning and another peak torque is produced at 60 - 80 degree in respond to torque of rotating valves
- Mounting flange dimensions in accordance with ISO 5211

Kind of Actuators :

- Scotch Yoke Type
 - S(Spring Return Single Cylinder)
 - D(Double Acting Single Cylinder)
- Linkage Type
 - SD(Spring Return Double Cylinder)
 - DD(Double Acting Double Cylinder)



Series 6200 Rotary Cylinder Actuator

Cylinder Actuator Specifications

| | | | | | | | | | | |
|-----------------------|--|------|------|------|------|------|------|------|------|--|
| Actuator Type | Double Acting/Spring Return Type Cylinder Actuator | | | | | | | | | |
| Actuator Model | Series 6200 | | | | | | | | | |
| Body Type | Scotch yoke, Linkage, Piston Type | | | | | | | | | |
| ACtuator Size (Model) | AC06 | AC08 | AC10 | AC12 | AC14 | AC17 | AC20 | AC25 | AC30 | |
| Supply Pressure Range | Standard : 4.0kgf/cm ² (G), Range : 3.5 ~ 5.0 kgf/cm ² | | | | | | | | | |
| Spring Range | 2.0~3.0 kgf/cm ² (G) | | | | | | | | | |
| Body Materials | FCD450 | | | | | | | | | |
| Guiding | Bushing | | | | | | | | | |
| Movement | Rotary (Scotch yoke, Linkage), Reciprocate (Piston) | | | | | | | | | |