



Reduce process variability and drive plant efficiency

Process Instrumentation – Valves

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Life Is On

Schneider
Electric

Overview

A single innovative field device can provide better process control and improve the performance of any one of your production assets: personnel, equipment, energy use, or inventory. Employing multiple instruments can positively impact the performance of all areas of your enterprise.

Schneider Electric field devices are allied with various industry-leading brands that result in systems, software, and services that dramatically improve your operations' economic, safety, and environmental performance. In addition, the deployment of multiple advanced measurement systems will enhance the availability and utilization of all the assets on which your success depends.

Description

No matter the application, Schneider Electric enables you to drive your process at its best. Our portfolio of general service and severe service valves cover today's toughest demands for valve performance.

General Service Control Valves

Whether at high pressures, in corrosive media, or subzero fluids, our family of plug valves reliably address the vast majority of requirements at low energy consumption through low torque designs.

Severe Service Control Valves

Longer service life and reduced cost of ownership are made possible through highly engineered anti-cavitation control valves that neutralize detrimental wear and tear. A range of material, pressure and temperature options maximize flexibility for severe service applications.

Ball Valves

Long life in tough applications, including corrosive fluids and cryogenics make our ball valves the hallmark of our valve portfolio. Customers world wide can fully customize the ball valves to international design and performance standards.

Butterfly Valves

Ideal for precision throttling and on-off applications, our butterfly valves provide performance and long-term value through low friction and small torque, bidirectional sealing, intrinsic fire-proof structure and dead zone free design.

SRD998 Valve Positioner

The intelligent positioner SRD998 is designed to operate pneumatic valve actuators. Enhanced functionalities enable a significant reduction in commissioning time and reduction of the total installation cost.

- Fast commissioning with user-friendly LCD, rotary selector and intuitive menu
- Full valve compatibility with improved control performance
- Seamless DCS integration based on HART® 7



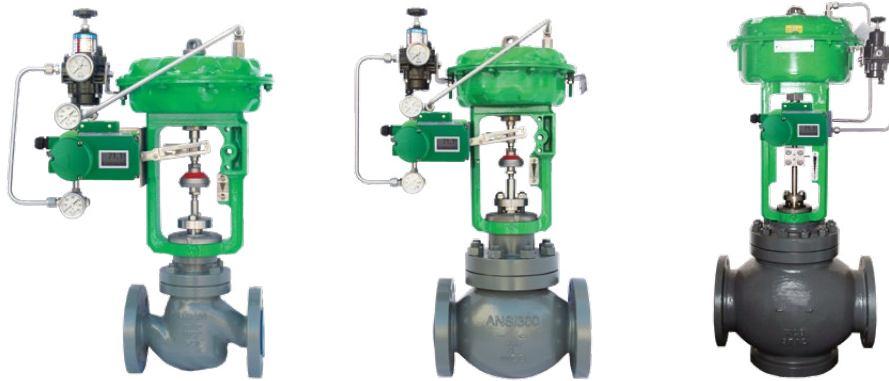
Benefits

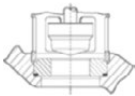
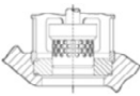
- Easy to Use
- Fast Commissioning
- User-Friendly
- Reliable and Robust

Applications

- Oil & Gas
- Water & Wastewater
- Mining, Metals & Minerals
- Power Generation
- Food & Beverage
- Severe Vibration & Temperature Applications

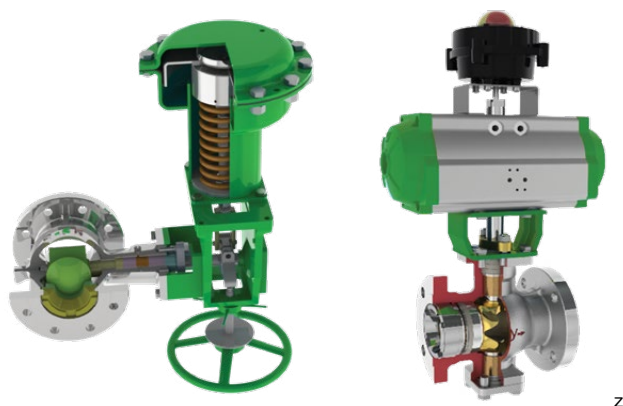
General Service Control Valves



| Model | | VTX10 | VTX30 | VTX50 |
|----------------------|---|--|---|--|
| Description | | Quick Change Trim Single Seat Control Valve | Quick Change Trim Cage Control Valve | Pressure Balanced Cage Control Valve |
| Plug | Contoured Plug | | Drilled Hole Plug | |
| |  | |  | |
| Size Range | | 1/2"-16" | 1/2"-16" | 3"-16" |
| Body Ratings | | Class 150 - Class 300 | Class 150 - Class 300 | Class 600 - Class 1500 |
| Cv value | Equal % | 4.7-2925 | 2.9-1463 | 29-3250 |
| | Linear | 4.7-2925 | 2.9-2925 | 46-6700 |
| Bonnet | | -50°F – 986°F (-46°C - 530°C) | -50°F – 986°F (-46°C - 530°C) | -50°F – 986°F (-46°C - 530°C) |
| Flow Characteristics | | Equal Percentage, Linear, Quick Opening | Equal Percentage, Linear | Equal Percentage, Linear |
| Shutoff Class | | ANSI B16.104 Class IV, V, VI | ANSI B16.104 Class IV, V, VI | ANSI B16.104 Class IV, V |
| Materials | | WCC, LCC, 316 SS, 304 SS, WC6, WC9 | WCC, LCC, 316 SS, 304 SS, WC6, WC9 | WCC, LCC, 316 SS, 304 SS, WC6, WC9 |
| Packing | | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite |
| Body Connections* | | RF, RTJ, BW, SW | RF, RTJ, BW, SW | RF, RTJ, BW, SW |
| Actuator | | Spring Diaphragm, Linear Piston, Electric | Spring Diaphragm, Linear Piston, Electric | Spring Diaphragm, Linear Piston, Electric |

*DIN & PN flanges also available (contact your Schneider Electric representative for more information)

General Service Control Valves

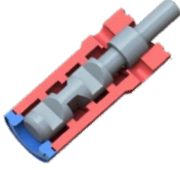



| Model | VTX70 | VTX90 |
|----------------------|---|---|
| Description | Rotary Eccentric Plug Control Valve | V-Ball Control Valve |
| Ball | Eccentric Plug | V-Ball |
| Body Size | 1"-14" | 1"-20" |
| Body Ratings | Class 150 - Class 600 | Class 150 - Class 300 |
| Calculated CV | 5.6-2600 | 19-15210 |
| Bonnet | -76°F - 660°F (-60°C - 350°C) | -20°F - 790°F (-29°C - 425°C) |
| Flow Characteristics | Modified Equal % | Modified Equal % |
| Leakage Class | ANSI B16.104 Class IV, V, VI | ANSI B16.104 Class IV, V, VI |
| Materials | WCC, LCC, 316 SS, 304 SS, WC6, WC9 | WCC, LCC, 316 SS, 304 SS, WC6, WC9 |
| Packing | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite |
| Body Connections* | Wafer (RF), Flanged (RF) | Wafer (RF), Flanged (RF) |
| Actuator | Rack & Pinion, Scotch Yoke, Electric, Hydraulic | Rack & Pinion, Scotch Yoke, Electric, Hydraulic |

*DIN & PN flanges also available (contact your Schneider Electric representative for more information)

Severe Service Control Valves



| Model | MVR20 | MVR40 |
|----------------------|---|--|
| Description | Multistage Axial Flow Control Valve | Multipath and Multistage Control Valve |
| Plug | Anti-Cavitation  | Labyrinth Disk Stack  |
| Size Range | 1"-3" | 1"-12" |
| Body Ratings | Class 900 - 2500 | Class 150 - 2500 |
| Cv value | Equal % | Modified |
| | Linear | Modified |
| Bonnet | -20°F – 780°F (-30°C - 420°C) | -50°F – 986°F (-46°C - 530°C) |
| Flow Characteristics | Modified Linear | Equal Percentage, Linear |
| Shutoff Class | ANSI/FCI 70-2 | MSS-SP-61 |
| Materials | A105, F11, F22 | WCB, WC6, A105, F11 |
| Packing | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite |
| Body Connections* | RF, RTJ, BW, SW | RF, RTJ, BW, SW |
| Actuator | Spring Diaphragm, Linear Piston, Electric | Spring Diaphragm, Linear Piston, Electric |

*DIN & PN flanges also available (contact your Schneider Electric representative for more information)

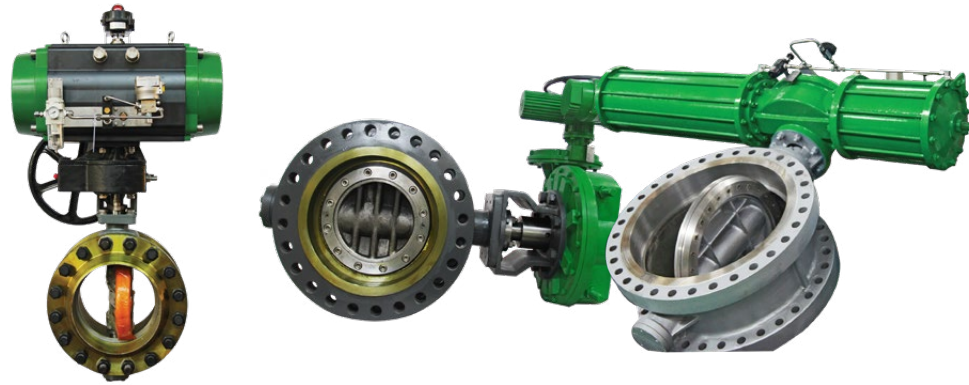
Ball Valves



| | |
|----------------------|---|
| Model | BAV90 |
| Description | Two Piece, Flanged, Soft Seated, General Service Ball Valve |
| Ball | Full Port |
| Size Range | 1/2"-24" |
| Body Ratings | Class 150 - Class 300 |
| Calculated Cv | Full Port |
| Bonnet | -20°F - 390°F (-29°C - 200°C) |
| Flow Characteristics | Quick-Opening |
| Shutoff Class | API598 ANSI B16.104, Class VI |
| Materials | WCC, LCC, 316 SS, 304 SS, WC6, WC9 |
| Packing | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite |
| Body Connections* | RF |
| Actuator | Rack & Pinion, Scotch Yoke, Electric, Hydraulic |

*DIN & PN flanges also available (contact your Schneider Electric representative for more information)

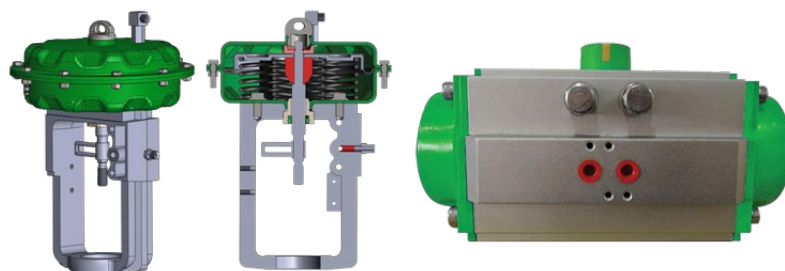
Butterfly Valves



| Model | TVT60 | TVT80 | TVT80-Cryo |
|----------------------|--|--|--|
| Description | High Performance Butterfly Valve | Triple Offset Butterfly Valve | Triple Offset Butterfly Valve – Low Temperature |
| Disc | Double-Offset | Triple-Offset | Triple-Offset |
| Size Range | 2"-32" | 3"-56" | 3"-32" |
| Body Rating | Class 150 | Class 150 - Class 300 | Class 150 - Class 300 |
| Bonnet | -49°F - 925°F (-45°C - 500°C) | -49°F - 925°F (-45°C - 500°C) | -320°F - 85°F (-196°C - 29°C) |
| Flow Characteristics | Modified Equal % | Modified Equal % | Modified Equal % |
| Shutoff Class | Metal Seat - ANSI B16.104 IV Soft Seat - ANSI B16.104 VI | API598 ANSI B16.104 Class V | API598 ANSI B16.104 Class V |
| Material | WCC, LCC, 316 SS, 304 SS, WC6, WC9 | WCC, LCC, 316 SS, 304 SS, WC6, WC9 | 304 SS, 316 SS, WCB |
| Packing | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite | PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil/Graphite |
| Body Connections* | 2"-32" Wafer (RF) 2"-24" Flanged (RF) | Wafer (RF), Flanged (RF) | Wafer (RF), Flanged (RF) |
| Actuator | Rack & Pinion, Scotch Yoke, Electric, Hydraulic | Rack & Pinion, Scotch Yoke, Electric, Hydraulic | Rack & Pinion, Scotch Yoke, Electric, Hydraulic |

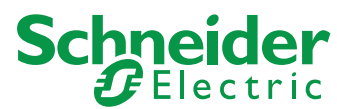
*DIN & PN flanges also available (contact your Schneider Electric representative for more information)

Actuation



| Model | ASP10 | APR30 |
|-------------|---|---|
| Description | Multi-Spring and Diaphragm Actuator | Pneumatic Rack and Pinion Actuator |
| Performance | <p>Hysteresis Less than 1% of Full Stroke w/ Positioner Less than 3% of Stroke w/out Positioner</p> <p>Linearity Less than 1% of Full Stroke w/ Positioner Less than 5% of Full Stroke w/out Positioner</p> | 90% Torque Transmission Efficiency of Rack and Pinion, Quick-Acting, NAMUR and ISO Mounting |
| Function | Double-Acting, Spring-Return, Fail-Safe | Double-Acting, Spring-Return, Fail-Safe |
| Accessories | I/P Positioner, PP Positioner, Limit Switch, Solenoid Valve, Speed Controller, Filter Regulator | I/P Positioner, PP Positioner, Limit Switch, Solenoid Valve, Speed Controller, Filter Regulator |
| Options | Manual Handwheel, Low-Temp Service, High-Temp Service | Manual Handwheel, Low-Temp Service, High-Temp Service |
| Materials | <p>Diaphragm Case: Carbon Steel</p> <p>Diaphragm: NBR</p> <p>Shaft: 304L SS</p> <p>Yoke: Ductile Iron</p> | <p>Body: Extruded Aluminum</p> <p>End-Cap: Die-Cast Aluminum</p> <p>Piston: Die-Cast Aluminum</p> <p>Pinion: Alloy Steel</p> <p>Piston Bearing: PTFE/PTFE-Bronze</p> <p>Piston Guide: Nylon</p> |

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