Over 35 years of experience in Valves, Automation & Controls.

SVF Flow Controls is a recognized leader in flow control technology. The Company’s market focus and technical expertise have become the hallmark for SVF’s success. As a sales, marketing, and engineering organization, SVF Flow Controls has created a marketing alliance that provides the Company’s customers with access to state-of-the-art manufacturing operations, engineering and an ISO 9001:2015 quality level resulting in the most respected line of high-end, process-quality valves, actuators and controls in today’s world market. With over 35 years of valve manufacturing experience, SVF Flow Controls regularly engineers valve designs of exotic alloys for unique applications such as high pressure, high purity, etc., as well as for specific industries such as chemical, biotech, semiconductor, pharmaceutical, petro-chem, food & beverage, oil & gas, refining and other industries throughout the world. Today, SVF Flow Controls leads the market in offering a full range of superior quality engineered valves, actuators & controls to meet and exceed the needs and requirements of SVF’s customers.
### High Performance Ball Valves

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>PORT SIZE</th>
<th>PAGE</th>
</tr>
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<tbody>
<tr>
<td>R8</td>
<td>Three-Piece Ball Valve, High Performance</td>
<td>Standard Port</td>
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<tr>
<td>B8</td>
<td>Three-Piece Ball Valve, High Performance</td>
<td>Full Port</td>
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<tr>
<td>R9</td>
<td>Three-Piece Ball Valve, Direct Mount</td>
<td>Standard Port</td>
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<td>B9</td>
<td>Three-Piece Ball Valve, Direct Mount</td>
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<tr>
<td>L8</td>
<td>Three Piece Instrumentation Ball Valve</td>
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<tr>
<td>FB9</td>
<td>Three-Piece Ball Valve, Fire Safe</td>
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<tr>
<td>FS7</td>
<td>Three-Piece Ball Valve, Fire Safe</td>
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<tr>
<td>D6/T7</td>
<td>Three-Piece Diverter Ball Valves</td>
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### High Pressure Ball Valves

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<tr>
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<tbody>
<tr>
<td>H7</td>
<td>Three-Piece Ball Valve, High Pressure to 6000 PSI</td>
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<tr>
<td>HBEV</td>
<td>Seal Welded Ball Valve, High Pressure to 6000 PSI</td>
<td>Fire Safe Full Port</td>
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<td>P4</td>
<td>Three-Piece Ball Valve, High Pressure to 5000 PSI</td>
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<tr>
<td>R8</td>
<td>Three-Piece Ball Valve, High Pressure, 3000 PSI</td>
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<td>B8</td>
<td>Three-Piece Ball Valve, High Pressure, 3000 PSI</td>
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### Flanged Ball Valves

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<tr>
<td>41C</td>
<td>ANSI Class 150 Flanged Ball Valve, Fire Safe</td>
<td>Standard Port</td>
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<tr>
<td>B40</td>
<td>ANSI Class 150 Flanged Ball Valve</td>
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<td>B41C</td>
<td>ANSI Class 150 Flanged Ball Valve, Fire Safe</td>
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<tr>
<td>B42C</td>
<td>ANSI Class 300 Flanged Ball Valve, Fire Safe</td>
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<tr>
<td>B43C</td>
<td>ANSI Class 600 Flanged Ball Valve, Fire Safe</td>
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<tr>
<td>MB51</td>
<td>ANSI Class 150 Flanged Ball Valve, Multi-Ported</td>
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### CleanFLOW™ + CleanTECH™ Hygienic Ball Valves

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<th>CLEANFLOW™</th>
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<tr>
<td>SB7</td>
<td>Three-Piece Hygienic Ball Valve Cast</td>
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<td>SB7F</td>
<td>Three-Piece Hygienic Ball Valve Forged</td>
<td>Tube-ID</td>
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<tr>
<td>SB79</td>
<td>Three-Piece Hygienic Ball Valve, Hastelloy</td>
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<tr>
<td>SB7X</td>
<td>Three-Piece Hygienic Ball Valve, Fire Safe</td>
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<tr>
<td>TS8T</td>
<td>Three-Piece Hygienic Ball Valve, Multi-Ported, Cast</td>
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<td>TS8TF</td>
<td>Three-Piece Hygienic Ball Valve, Multi-Ported, Forged</td>
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<td>SMCB</td>
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<td>Tube-ID</td>
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<td>OPUS™</td>
<td>Hygienic Steam Trap Test Ball Valve</td>
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### CleanTECH™

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<tr>
<td>SB9-ETO</td>
<td>Three-Piece Sanitary Ball Valve, ETO Ends, Cast</td>
<td>Tube-ID</td>
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<td>SB9-TR0</td>
<td>Three-Piece Sanitary Ball Valve, Tri-Clamp Ends, Cast</td>
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### Butterfly Valves

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<tr>
<td>SLB</td>
<td>Wafer and Lug Style, Class 150, Dead End Service (Lug)</td>
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<tr>
<td>BS</td>
<td>Wafer and Lug Style, Class 150</td>
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<td>CVC</td>
<td>Wafer Body Style Check Valve</td>
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### Specialty Ball Valves

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<th>PRODUCT</th>
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<tbody>
<tr>
<td>R8/B89</td>
<td>Three-Piece Ball Valve, 100% Hastelloy or Alloy 20</td>
<td>Standard Port</td>
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<tr>
<td>NB</td>
<td>Three-Piece Ball Valve, High Temperature Applications Up To 650°F</td>
<td>Standard Port</td>
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<tr>
<td>BNB</td>
<td>Three-Piece Ball Valve, High Temperature Applications Up To 650°F</td>
<td>Full Port</td>
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<tr>
<td>CB</td>
<td>Three-Piece Ball Valve, Dry or Liquid Chlorine Service</td>
<td>Standard Port</td>
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</tr>
<tr>
<td>7641</td>
<td>ANSI Class 150 Flanged Ball Valve, H₂O₂ Service</td>
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<tr>
<td>K8</td>
<td>Three-Piece Ball Valve, Cryogenic Service</td>
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<tr>
<td>B29</td>
<td>Three-Piece Bronze Ball Valve, Medi-Gas Service</td>
<td>Full Port</td>
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<tr>
<td>V8</td>
<td>Three-Piece Valve, Characterized 15°, 30° &amp; 60° “V” Balls</td>
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<td>V841</td>
<td>ANSI Class 150 Flanged Characterized 15°, 30° &amp; 60° “V” Balls</td>
<td>“V” Port</td>
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<tr>
<td>V842</td>
<td>ANSI Class 300 Flanged Valve, Characterized 15°, 30° &amp; 60° “V” Balls</td>
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### Direct Mount Ball Valves

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<tr>
<td>BE9B</td>
<td>Two-Piece Ball Valve, Direct Mount</td>
<td>Full Port</td>
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<tr>
<td>EZ9B</td>
<td>Three-Piece Ball Valve, Direct Mount</td>
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<tr>
<td>MZ9B</td>
<td>Multi-Ported Ball Valve, Direct Mount</td>
<td>Full Port</td>
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<td>BZ9</td>
<td>Three-Piece Bronze Ball Valve, Direct Mount</td>
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### Industrial Series

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<tr>
<td>15SS</td>
<td>One-Piece Ball Valve, 316 Stainless Steel, 800 WOG</td>
<td>Standard Port</td>
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<tr>
<td>20SS</td>
<td>Two-Piece Ball Valve, 316 Stainless Steel, 1000 WOG</td>
<td>Full Port</td>
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<td>30SS-CS</td>
<td>Three-Piece Ball Valve, 316 Stainless &amp; Carbon Steel, 1000 WOG</td>
<td>Full Port</td>
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<tr>
<td>26SS-CS</td>
<td>Two-Piece Ball Valve, 316 Stainless &amp; Carbon Steel, 2000 WOG</td>
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<tr>
<td>759LH</td>
<td>Two-Piece Ball Valve, Forged Brass Body, 600 WOG</td>
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<tr>
<td>405S</td>
<td>Stainless Steel Gate Valve, 200 WOG</td>
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<td>505S</td>
<td>Stainless Steel Globe Valve, 200 WOG</td>
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<td>605S</td>
<td>Stainless Steel Check Valve, 200 WOG</td>
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<td>705S</td>
<td>Stainless Steel Y-Strainer, 800 WOG</td>
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<tr>
<td>500F</td>
<td>Forged Gate Valve, Class 800</td>
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<tr>
<td>505F</td>
<td>Forged Globe Valve, Class 800</td>
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<td>520F</td>
<td>Forged Swing Check Valve, Class 800</td>
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<td>522F</td>
<td>Forged Check Valve, Class 800</td>
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<td>Cast Steel ANSI Class 150 Flanged Gate Valve</td>
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<td>405</td>
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<td>422</td>
<td>Cast Steel ANSI Class 150 Flanged Check Valve</td>
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### Actuators and Controls

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<td>Double Acting or Spring Return</td>
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<tr>
<td>Quad4™ Series 4-Piston Pneumatic Actuator</td>
<td>Double Acting or Spring Return</td>
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<tr>
<td>AED Spring Diaphragm Pneumatic Actuator</td>
<td>Spring Return</td>
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<tr>
<td>6 SERIES Electric Actuator</td>
<td>Heavy Duty High Performance Electric Actuator</td>
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<td>EM SERIES Electric Actuator</td>
<td>Heavy Duty High Performance Electric Actuator</td>
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<tr>
<td>ESR-Series Spring Return Electric Actuator</td>
<td>Heavy Duty Spring Return Electric Actuator</td>
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<tr>
<td>NEXUS™-LS/NEXUS™-LX Limit Switch</td>
<td>Discrete Valve Controller</td>
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<td>NEXUS™-ID/IX</td>
<td>As I Protocol</td>
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<td>NEXUS™-PS</td>
<td>Low Profile, Proximity Switch</td>
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<td>NEXUS™-TC</td>
<td>Two-Stage Controller</td>
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<td>NEMA 4, NEMA 7, ATEX or Intrinsically Safe Pilot Valve</td>
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<td>Pneumatic, Electro-Pneumatic and Digital HART Positioner</td>
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<tr>
<td>EXACT Positioner</td>
<td>Pneumatic or Electro-Pneumatic Positioner</td>
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<thead>
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<td>Declutchable Manual Override</td>
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<td>MGO Series</td>
<td>Manual Gear Operator</td>
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<tr>
<td>SC / SX Series</td>
<td>Secondary Containment / Stem Extension</td>
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<tr>
<td>VW Series</td>
<td>Filter Regulator</td>
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</table>
High Performance Ball Valves

Wide range of Seat and Seal materials to meet all Process Applications

High Performance Ball Valves from SVF Flow Controls are anything but ordinary. Designed for durability, our process-quality ball valves have features which make them widely compatible and easy to install.

High Performance, Ball Valve features:
- Three-piece construction enables the valves to meet a wide range of piping requirements
- Bi-directional flow, pressure-assisted sealing guarantees tight shut-off and low torque
- Blowout proof stem and live loaded stem seal design automatically adjusts for wear and thermal cycling
- Encapsulated body seal allows for field welding without disassembly
- Wide variety of options, accessories and materials
- ISO 5211 mounting pad design
- Three-Piece valve features “swing-out” design for ease of maintenance
- Class 300, 600 and 900

R8/B8 Three-Piece Ball Valve
- R8 - Standard Port
- B8 - Full Port
- SIZES: R8: 1/4" - 3"
  B8: 1/2" - 2-1/2"
- MATERIALS: 316 Stainless Steel
  Carbon Steel
  Hastelloy
- END CONNECTIONS: Screwed Ends (FNPT)
  Socket Weld Ends
  Butt Weld Ends
- SEAT MATERIALS: TFM®600™
  SupraLox™
  Delrin®
  PEEK
  UHMWPE

R9/B9 Three-Piece Ball Valve
- R9 - Standard Port
- B9 - Full Port
- SIZES: R9: 1/2" - 2"
  B9: 1/2" - 2"
- MATERIALS: 316 Stainless Steel
  Carbon Steel
- END CONNECTIONS: Screwed Ends (FNPT)
  Socket Weld Ends
- SEAT MATERIALS: TFM®600™
  SupraLox™
  Delrin®
  PEEK

L8 Instrumentation Three-Piece Ball Valve
- SIZES: 1/4" - 1"
- MATERIALS: 316 Stainless Steel
- END CONNECTIONS: Compression Ends
  Compression Male Ends
  (without nut & ferrules)
- SEAT MATERIALS: TFM®600™
  SupraLox™
  Delrin®
  PEEK

FB9/FS7 Fire Safe API 607 Three-Piece Ball Valve
- FB9: 1/2" - 2"
- FS7: 3" - 4"
- MATERIALS: 316 Stainless Steel
  Carbon Steel
- END CONNECTIONS: Screwed Ends (FNPT)
  Socket Weld Ends
  Butt Weld Ends
- SEAT MATERIALS: TFM®600™
  SupraLox™
  Delrin® (FS7 Only)
  PEEK (FB9 Only)
  UHMWPE (FB9 Only)

D8/T7 Diverter (D8)/3-Way (T7) Ball Valve
- D8: 1/4" - 2"
- T7: 1/4" - 2"
- MATERIALS: 316 Stainless Steel
  Carbon Steel
- END CONNECTIONS: Screwed Ends (FNPT)
  Socket Weld Ends
  Butt Weld Ends
- SEAT MATERIALS: TFM®600™
  SupraLox™
  Delrin® (D8 Only)
  PTFE (D8 Only)
  Delrin® (T7 Only)
  UHMWPE (D8 Only)

Diverter  (D8)/3-Way (T7) Ball Valve
- Three Piece, Standard Port
- Bottom Port
- SIZES: D8: 1/4" - 2"
  T7: 1/4" - 2"
- MATERIALS: 316 Stainless Steel
  Carbon Steel
- END CONNECTIONS: Screwed Ends (FNPT)
  Socket Weld Ends
  Butt Weld Ends
- SEAT MATERIALS: TFM®600™
  SupraLox™
  Delrin® (D8 Only)
  PTFE (D8 Only)
  Delrin® (T7 Only)
  UHMWPE (D8 Only)

ISO 5211 mounting pad for easy Direct Mount actuation

Fire-Safe certification to API-607
Anti-Static stem device
ISO 5211 Mounting pad for easy Direct Mount actuation
FM 7400 certified

Available in a variety of flow patterns

8559 Fresca Drive, La Palma, CA 90623 | 1.800.783.7836 | Sales@SVF.net
High pressure up to 6000 PSI

High Pressure Ball Valve features:

- Three-piece construction enables the valves to wide range of piping requirements
- Bi-directional flow, pressure-assisted sealing guarantees tight shut-off and low torque
- Blowout proof stem and live loaded stem seal design automatically adjusts for wear and thermal cycling
- Wide variety of options, accessories and materials
- Three-Piece valve features “swing-out” design for ease of maintenance

High Pressure Ball Valve features:

- Three-piece construction enables the valves to wide range of piping requirements
- Bi-directional flow, pressure-assisted sealing guarantees tight shut-off and low torque
- Blowout proof stem and live loaded stem seal design automatically adjusts for wear and thermal cycling
- Wide variety of options, accessories and materials
- Three-Piece valve features “swing-out” design for ease of maintenance

SVF Flow Controls High Pressure Ball Valves

H7
High Pressure Three-Piece Ball Valves
Standard Port

SIZES
1/2" - 2" = 6000 PSI

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Screwed Ends (FNPT)
Socket Weld Ends
SAE ends on 1/2" & 1"
Code 62 ends on 3/4" & 1"

SEAT MATERIALS
Delrin®
PEEK
UHMWPE

Fire Safe to API-607
Anti-Static stem device
ISO 5211 mounting pad for easy actuation

HBEV
High Pressure Seal Welded Ball Valve Full Port
Fire Safe API-607

SIZES
1/2" - 2" = 6000 PSI

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Screwed Ends (FNPT)
Socket Weld Ends
SAE ends on 1/2" & 1"

SEAT MATERIALS
Delrin®
PEEK

High pressure up to 6000 PSI

P4
High Pressure Three-Piece Ball Valve
Standard Port

SIZES
1/2" - 1" = 5000 PSI

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Screwed Ends (FNPT)
Socket Weld Ends
SAE ends on 1/2" & 1"

SEAT MATERIALS
Delrin®
PEEK

Fire Safe to API-607
Anti-Static stem device
ISO 5211 mounting pad for easy actuation

R8
Process-Quality Three-Piece Ball Valve
Standard Port

SIZES
1/2" - 2" = 3000 PSI
1 1/4" - 2" = 2000 PSI

MATERIALS
316 Stainless Steel
Carbon Steel
Hastelloy

END CONNECTIONS
Screwed Ends (FNPT)
Socket Weld Ends
Butt Weld Ends

SEAT MATERIALS
Delrin®
PEEK

Encapsulated body seals to facilitate welding without disassembly
ISO 5211 mounting pad for easy actuation

B8
Process-Quality Three-Piece Ball Valve
Full Port

SIZES
1/2" - 3/4" = 3000 PSI
1" - 1 1/2" = 2000 PSI

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Screwed Ends (FNPT)
Socket Weld Ends
Butt Weld Ends

SEAT MATERIALS
Delrin®
PEEK

Encapsulated body seals to facilitate welding without disassembly
ISO 5211 mounting pad for easy actuation
Flanged Ball Valve features:

- Fire Safe Certification to API 607 & 608 with Anti-Static Stem (with Grafoil body seals only)
- Standard NACE MRO175
- Live-loaded stem seal ensures seal-tight pressure containment even under thermal cycling
- Blowout proof stem adds safety and reliability
- Standard locking handle in both open and closed positions

ISO 5211 mounting pad for easy actuation

SupraLon™ seats specifically designed for higher temperature, steam and thermal fluid applications up to 650°F

Flanged Ball Valves

41C
Fire Safe ANSI Class ISO Standard Port Flanged Ball Valve

SIZES
1-1/2” - 6”

MATERIALS
316 Stainless Steel Carbon Steel

END CONNECTIONS
150# Flanged Ends

SEAT MATERIALS
TFM600™ SupraLon™

B40
ANSI Class 150 Full Port Flanged Ball Valve

SIZES
1” - 6”

MATERIALS
316 Stainless Steel Carbon Steel

END CONNECTIONS
150# Flanged Ends

SEAT MATERIALS
RTFE

B41C
Fire Safe ANSI Class 150 Full Port Flanged Ball Valve

SIZES
1/2” - 8”

MATERIALS
316 Stainless Steel Carbon Steel

END CONNECTIONS
150# Flanged Ends

SEAT MATERIALS
TFM600™ SupraLon™

B42C
Fire Safe ANSI Class 300 Full Port Flanged Ball Valve

SIZES
1/2” - 8”

MATERIALS
316 Stainless Steel Carbon Steel

END CONNECTIONS
300# Flanged Ends

SEAT MATERIALS
RTFE

B43C
Fire Safe ANSI Class 600 Full Port Flanged Ball Valve

SIZES
1/2” - 8”

MATERIALS
316 Stainless Steel Carbon Steel

END CONNECTIONS
600# Flanged Ends

SEAT MATERIALS
SupraLon™

MB51
ANSI Class 150 Full Port Multi-Ported Flanged Ball Valve

SIZES
1” - 8”

MATERIALS
316 Stainless Steel Carbon Steel

END CONNECTIONS
150# Flanged Ends

SEAT MATERIALS
RTFE

Standard NACE MRO175 Chevron (V-Ring) stem seals assure low friction and leak tight performance (available in PTFE Only)

Worm gear operator handwheel for 6” & 8” valves

SupraLon™ seats specifically designed for higher temperature, steam and thermal fluid applications up to 650°F
CleanFLOW™ hygienic ball valves by SVF Flow Controls are engineered to be a true process piping component to specifically meet demanding processes found in the pharmaceutical, bio-tech, semiconductor, cosmetics, foods and other industries. The port opening of the valve’s flow path is dimensionally identical to the adjacent tubing. This “Tube-ID” feature provides predictable flow rates and pressure drops and ensures thorough cleaning and drainability as mandated by ASME-BPE.

**Hygienic Ball Valve features:**

- ASME - BPE compliant
- Complete 316L Stainless Steel construction
- ISO 5211 mounting pad for easy actuation
- Encapsulated body seals to facilitate welding without disassembly
- Controlled differential chemistry
- Live-loaded stem seal ensures seal-tight pressure containment even under thermal cycling
- Blowout proof stem seal ensures safety and reliability
- Drainable design with Tube-ID dimensions
- Standard interior finish is 15 Ra or better
- Locking handle available in both open and closed position

**CleanFLOW™ hygienic ball valves**

- **SB7** Hygienic (Cast)
  - Three-Piece Ball Valve
  - **Sizes:** 1/2" - 6"

- **SB7F** Hygienic (Forged)
  - Three-Piece Ball Valve
  - **Sizes:** 1/2" - 4"

- **SB79** Hygienic Three-Piece
  - Hastelloy Ball Valve
  - **Sizes:** 1/2" - 2"

- **SB7X** Fire Safe Hygienic (Cast)
  - Three-Piece Ball Valve
  - **Sizes:** 1/2" - 2"

- **TSB7** Multi-Ported, Hygienic (Cast or Forged)
  - Three-Piece Ball Valve
  - **Sizes:** 1/2" - 4"

- **SMC9** Multi-Ported, Hygienic (Cast)
  - **Sizes:** 1/2" - 2"

- **OPUS™ Steam Trap Test Valve**
  - **Sizes:** 1/2" - 2"

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**ASME - BPE compliant**

- Complete 316L Stainless Steel construction

**ISO 5211 mounting pad** for easy actuation

**Encapsulated body seals** to facilitate welding without disassembly

**Controlled differential chemistry**

**Live-loaded stem seal** ensures seal-tight pressure containment even under thermal cycling

**Blowout proof stem seal** ensures safety and reliability

**DRAINABLE design** with Tube-ID dimensions

**Standard interior finish is 15 Ra or better**

**Locking handle** available in both open and closed position
CleanTECH™ ball valves by SVF Flow Controls are manual and automated ball valve solutions for semiconductor, food & beverage, dairy, flavorings and cosmetics & fragrance. All materials comply with applicable ASTM material specifications as well as FDA and USDA requirements.

**Sanitary Ball Valve features:**
- Three piece investment cast stainless steel
- Standard locking device
- Built-in ISO 5211 direct mounting pad for easy actuation
- Live-loaded stem seal ensures seal-tight pressure containment even under thermal cycling
- Blowout proof stem adds safety and reliability
- Drainable design with Tube-ID dimensions
- Standard interior finish is 20 Ra or better

**SB9-ETO** Three-Piece Ball Valve
- **Sizes:** 1/2" - 4"
- **Materials:** Stainless Steel (ASTM A351 CF8M)
- **End Connections:** Extended Tube OD
- **Seat Materials:** TFM1600™

**SB9B-TRI CLAMP** Three-Piece Ball Valve
- **Sizes:** 1/2" - 4"
- **Materials:** Stainless Steel (ASTM A351 CF8M)
- **End Connections:** Tri-Clamp Ends
- **Seat Materials:** PTFE™

PTFE™ seat and body seal material comply with FDA CFR Title 21 Part 177.1550 and USP Class VI. Optional PTFE cavity filled seats available.

The SVF Flow Controls SLB Series valves are designed for superior performance in general purpose plant-wide applications. The direct-mount feature reduces the size and weight of traditional automated butterfly valves.

**SVF Flow Controls Butterfly Valves**

**SB9B-TRI CLAMP** Butterfly Valves
- **Sizes:** 2" - 24"
- **Materials:** 316 Stainless Steel Disk
- **Seat Materials:** EPDM, BUNA, VITON, PTFE

**SLB** Butterfly Valves
- **Sizes:** 2" - 12"
- **Materials:** Ductile Iron Disk, Aluminum Bronze Disk, 316 Stainless Steel Disk
- **Seat Materials:** EPDM, BUNA

**Check Valve-Wafer Style**
- **Sizes:** 2" - 16"
- **Materials:** Aluminum Bronze Disc

**Check Valve-Wafer Style**
- **Sizes:** 300 WOG
- **Materials:** D.I. Body with 304 Stainless Steel, Spring & Shaft
- **Seat Materials:** EPDM

Sanitary Ball Valve features:
- Three piece investment cast stainless steel
- Standard locking device
- Built-in ISO 5211 direct mounting pad for easy actuation
- Live-loaded stem seal ensures seal-tight pressure containment even under thermal cycling
- Blowout proof stem adds safety and reliability
- Drainable design with Tube-ID dimensions
- Standard interior finish is 20 Ra or better

The SVF Flow Controls SLB Series valves are designed for superior performance in general purpose plant-wide applications. The direct-mount feature reduces the size and weight of traditional automated butterfly valves.
SVF Flow Controls Specialty Ball Valves

R88/89 Three-Piece Alloy 20, Hastelloy Ball Valve

Sizes
N8: 1/4" - 3"  B8: 1/2" - 2 1/2"

Materials
Alloy 20 (R88) Hastelloy (R89)

Materials
316 Stainless Steel Carbon Steel

Seat Materials
TFM600™ SupraLon™ Delrin® PEEK

Seal Materials
SupraLon™

All wetted parts are 90% Hastelloy (ASTM A286W) or Alloy 20 (ASTM A240). Encapsulated body seals to facilitate welding without disassembly.

N8/BN8 Steam & Thermal Fluids Three-Piece Ball Valve

Sizes
N8: 1/4" - 3"  B8: 1/2" - 2 1/2"

Materials
316 Stainless Steel Carbon Steel

Seat Materials
TFM600™ SupraLon™

Seal Materials
SupraLon™

High-performance design for industrial steam and thermal fluid applications.

C8 Chlorine Service Three-Piece Ball Valve

Sizes
1/2" - 8"

Materials
Stainless Steel

Seat Materials
TFM600™

Seal Materials
SupraLon™

Ideal for use in dry or liquid Chlorine Service. Meets the Chlorine Institute (Pamphlet 6) for piping systems in Dry Chlorine Service. ISO S211 mounting pad for easy actuation. Blowout proof stem adds safety and reliability. Encapsulated body seal to facilitate welding without disassembly. Live-loaded stem seal ensures seat-tight pressure containment even under thermal cycling. ISO S211 mounting pad for easy actuation.

7B41 Hydrogen Peroxide ANSI Class 150 Full Port Flanged Ball Valve

Sizes
1/2" - 2"

Materials
Stainless Steel

Seat Materials
TFM600™

Seal Materials
PCTFE

Meets testing requirements of B16.34 Standard. Blowout proof stem adds safety and reliability. Designed for applications with temperatures down to -120°F. Three-Piece “swing out” design offers easy access for in-line maintenance. ANSI Class 150 & Class 300 Flange End Options Available.

K8 Cryogenic Three-Piece Ball Valve

Sizes
1/2" - 2"

Materials
Bronze C84400

Seat Materials
PCTFE

Seal Materials
PCTFE

Designed for fine control in a wide range of services. Blowout proof stem adds safety and reliability. Live-loaded stem seal ensures seat-tight pressure containment even under thermal cycling. ISO S211 mounting pad for easy actuation. Characterized “V” Balls available in 15°, 30° and 60° angles.

V8, VB41 & VB42 Characterized Control “V” Ball Three-Piece and Flanged Ball Valve

Sizes
V8 (Three Piece): 1/2" - 2"  VB41 & VB42 (Flanged): 1" - 6"

Materials
316 Stainless Steel Carbon Steel

Seat Materials
TFM600™

Seal Materials
TFM600™


Unique applications, specialty materials, specific handling requirements for hazardous substances - whatever the processing need - SVF Flow Controls has a valve to meet it. All of our products are designed to meet or exceed industry performance and safety standards.
SVF Flow Controls Direct Mount Valves

**BEV9B**
Direct Mount Ball Valve
Full Port

**EZ9B**
Direct Mount Ball Valve
Full Port

**MZ9B**
Direct Mount Ball Valve
Multi-Port

**BZ9**
Direct Mount Ball Valve
Full Port

**Sizes**
1/2” - 4”

- Pressure rated for 1000 WOG
- 316 Stainless Steel body, ball and stem
- Blowout proof stem adds safety & reliability
- Threaded Ends (FNPT)

**15SS Series**
One-Piece Ball Valve
Standard Port

**20SS Series**
Two-Piece Ball Valve
Full Port

**30SS-CS Series**
Three-Piece Ball Valve
Full Port

**26SS-CS Series**
Two-Piece Ball Valve
Full Port

**Sizes**
1/4” - 2”

- Pressure rated for 600psi
- Full Port flow path for maximum flow
- Blowout proof stem adds safety and reliability
- End connections include Threaded Ends (FNPT) Sweat Ends

**Materials**
Stainless Steel

**Seat Materials**
RTFE

SVF Flow Controls General Purpose Products

**W.P. 1000 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 1000 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 1000 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 2000 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 1000 WOG**
Blow-out Proof Stem
Locking Handle

- Blow-out Proof Stem
- Locking Handle

**END CONNECTIONS**
Threaded Ends (FNPT)

**Seat Materials**
RTFE

**Materials**
316 Stainless Steel

**Materials**
316 Stainless Steel Carbon Steel

**Materials**
316 Stainless Steel Carbon Steel

- End connections include Threaded Ends (FNPT) Sweat Ends

**20SS Series**
Two-Piece Ball Valve
Full Port

**30SS-CS Series**
Three-Piece Ball Valve
Full Port

**26SS-CS Series**
Two-Piece Ball Valve
Full Port

**Sizes**
1/4” - 2”

- Complete 316 Stainless Steel Construction
- L-Port and T-Port options
- Positive shut-off on any of the three ports
- Blowout proof stem adds safety & reliability
- Threaded Ends (FNPT)

**W.P. 800 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 800 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 2000 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 1000 WOG**
Blow-out Proof Stem
Locking Handle

**W.P. 2000 WOG**
Blow-out Proof Stem
Locking Handle

- Blow-out Proof Stem
- Locking Handle

**END CONNECTIONS**
Threaded Ends (FNPT) Socket Weld Ends

**Seat Materials**
RTFE
SVF Flow Controls General Purpose Products

759LH Series
Two-Piece Brass Ball Valve
Standard Port

W.P. 600 WOG
Forged Brass Body
Blow-out Proof Stem
Locking Handle

SIZES
1/2" - 2"

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

40SS Series
Globe Valve

W.P. 200 WOG
Non-Rising Stem

SIZES
1/2" - 2"

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

50SS Series
Globe Valve

W.P. 200 WOG
Rising Stem

SIZES
1/2" - 2"

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

60SS Series
Check Valve

W.P. 200 WOG
Swing Type Disc

SIZES
1/2" - 2"

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

70SS Series
Y Strainer

W.P. 800 WOG

SIZES
1/2" - 2"

MATERIALS
316 Stainless Steel
Carbon Steel

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

500F Series
Forged Globe Valve

Class 800
Trim B
Maximum Pressure 1975 PSI
Maximum Temperature 850°F
Bolted Bonnet
API 602 compliant
ASTM A105 or ASTM A182/316L
Standard NACE MR0175

SIZES
1/4" - 2"

MATERIALS
316 Stainless Steel
Carbon Steel (1/2" - 2")

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

505F Series
Forged Globe Valve

Class 800
Trim B
Maximum Pressure 1975 PSI
Maximum Temperature 850°F
Bolted Cover
API 602 compliant
ASTM A105 or ASTM A182/316L
Standard NACE MR0175

SIZES
1/4" - 2"

MATERIALS
316 Stainless Steel (1/2" - 2")
Carbon Steel (1/4" - 2")

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

520F Series
Forged Swing Check Valve

Class 800
Trim B
Maximum Pressure 1975 PSI
Maximum Temperature 850°F
Bolted Cover
API 602 compliant
ASTM A105 or ASTM A182/316L
Standard NACE MR0175

SIZES
1/4" - 2"

MATERIALS
316 Stainless Steel (1/2" - 2")
Carbon Steel (1/4" - 2")

END CONNECTIONS
Threaded Ends (FNPT)

SEAT MATERIALS
RTFE

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**SVF Flow Controls General Purpose Products**

### 522F Series
- **Forged Check Valve**
- **SIZES**
  - 1/4" - 2"
- **MATERIALS**
  - Trim 8
  - Maximum Pressure 285 PSI
  - Maximum Temperature 1000°F
  - Outside Screw & Yoke
  - API 600 compliant
  - ASTM A216
  - Standard NACE MR0175
- **END CONNECTIONS**
  - Socket Weld

### 400 Series
- **Cast Steel Flanged Gate Valve**
- **SIZES**
  - 2" - 12"
- **MATERIALS**
  - Cast Steel
- **END CONNECTIONS**
  - 150# Flanged Ends

### 405 Series
- **Cast Steel Flanged Globe Valve**
- **SIZES**
  - 2" - 12"
- **MATERIALS**
  - Cast Steel
- **END CONNECTIONS**
  - 150# Flanged Ends

### 422 Series
- **Cast Steel Flanged Check Valve**
- **SIZES**
  - 2" - 12"
- **MATERIALS**
  - Cast Steel
- **END CONNECTIONS**
  - 150# Flanged Ends

**SVF Flow Controls Actuators**

### E-Series
- **Electric Actuator**
- **Characteristics**
  - Heavy duty, fully enclosed high performance motor rated for On/Off & modulating service
  - Corrosion protection with thermally bonded polyester coating
  - All motors feature integral thermal overload protection
  - Designed for operation in temperatures from -40°F to 150°F
- **Details**
  - Hard Anodized aluminum housing
  - “Versa-View” Continuous mechanical position indicator
  - Nickel Plated alloy drive shaft
  - ISO/NAMUR design for universal mounting and accessory attachment
  - Bi-Directional Stroke Adjustment
  - 1/4” FNPT air inlet manifold
  - Actuator is designed for 120 PSI supply air pressure
  - Available in Spring Return or Double Acting models

### 422 Series
- **Four-Piston Pneumatic Actuator**
- **Characteristics**
  - Spring Diaphragm Actuator is manufactured using the latest materials and methods to provide dependable and smooth operation in demanding process control conditions.
- **Details**
  - High cycle life and low friction bearing
  - Field reversible for Fail Open or Fail Closed safety operations
  - ISO/NAMUR design for universal mounting and accessory attachment
  - Operated with supply media as low as 15 PSI
- **Compatible with**
  - NAMUR interface for mounting of solenoid valve
  - Available in Spring Return and Double Acting models

### ASD Series
- **Spring Diaphragm Actuator**
- **Characteristics**
  - The ASD Spring Diaphragm Actuators are designed for quarter turn applications with minimal media supply pressure the Spring Diaphragm separates the supply media from the springs allowing the actuator to be operated by unfiltered air, gas, water or mineral based hydraulic fluid.
- **Details**
  - ISO 5211 bottom flange for valve automation
  - NAMUR output drive for installation of limit switches and positioners
  - Anodized aluminum with polyester coating
  - Designed for operation in temperatures from -40°F to 150°F
- **Compatible with**
  - NAMUR interface for mounting of solenoid valve
  - 1/4” FNPT air inlet manifold
  - Actuator is designed for 120 PSI supply air pressure

### Quad4 Series
- **Four-Piston Pneumatic Actuator**
- **Characteristics**
  - The Quad4 is a four-piston actuator which generates torque around a centrally located pinion, giving more than double the torque of a single or double rack and pinion actuator.
- **Details**
  - Heavy duty, fully enclosed high performance motor rated for On/Off & modulating service
  - Corrosion protection with thermally bonded polyester coating
  - All motors feature integral thermal overload protection
  - Designed for operation in temperatures from -40°F to 150°F
- **Compatible with**
  - NAMUR interface for mounting of solenoid valve
  - 1/4” FNPT air inlet manifold
  - Actuator is designed for 120 PSI supply air pressure

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### Actuators

The EM-Series are geared motors that provide rotary output (torque) to power all types of rotary valves. Rotary action is controlled through two limit switches located in the unit and in conjunction with two cams. Precise setting of either position is achieved by adjusting the cam to activate the switch at exactly the desired point in the rotary cycle.

#### EM-Series
- Electric Actuator
- Heavy duty, fully enclosed high performance motor rated for On/Off & modulating service
- Built in thermal protection prevents motor burnout
- Available 4-20mA signal input for controls
- Available with optional manual override
- Available for loads up to 30,000 in-lbs

The ESR-Series actuator is a Spring Return Electric actuator providing protection in an event of a system failure or power loss. A mechanical spring is utilized to position the controlled device to either a fully open or fully closed position without any external power source.

#### ESR-Series
- Spring Return Electric Actuator
- "Quick-Set" cam is spring loaded and requires no special tools for calibration
- Built in thermal protection prevents motor burnout
- Dual 1/2" FNPT conduit entry
- Optional switches and sensors available
- Available for loads up to 3,300 in-lbs

The NEXUS® Limit Switch is a reliable and compact position feedback device fitted with two mechanical SPDT switches rated for 5A service. Optional switches and sensors available.

#### NEXUS-LS
- Limit Switch
- NEMA 4/4X, IP67 (NEXUS-LS™) or ATEX NEMA 7 (NEXUS-LX™) certified
- "Quick-Set" cam is spring loaded and requires no special tools for calibration
- Built in thermal protection prevents motor burnout

The NEXUS® discrete valve controller provides an optimized solution for on/off valve control & position sensing for the process industries.

#### NEXUS-LP
- Discrete Valve Controller
- NEXUS-ID/IX™
- NEXUS-ID (NEXUS-LP™) certified
- NAMUR and ISO 5211 adjustable bracket mounting
- 5/2 Aluminum spool valve, anodized and polyester coated 1/2" FNPT conduit entry

The NEXUS-ID/IX™ represents the latest As-Interface (As-I) technology for two-wire control and communication for today’s sophisticated control system design.

#### NEXUS-ID/I
- Discrete Valve Controller
- NEXUS-ID (NEXUS-LP™) certified
- NAMUR and ISO 5211 adjustable bracket mounting
- 5/2 Aluminum spool valve, anodized and polyester coated 1/2" FNPT conduit entry

The NEXUS-PS™ is a low profile sensor that delivers valve position status in demanding environments (IP67). The technology utilizes two reed devices that sense a magnetic target in the open and closed positions.

#### NEXUS-PS
- Proximity Switch
- NEXUS-ID (NEXUS-LP™) certified
- NAMUR and ISO 5211 adjustable bracket mounting
- NEMA 4/4X, IP67 (NEXUS-ID™)

The NEXUS-TC™ is a complete solution incorporating two solenoid valves and configured limit switches designed for two-stage operation.

#### NEXUS-TC
- Two-Stage Controller
- Fully adjustable set points for flexibility
- Two voltage sources required to power both solenoid valves
- Contact logic for each solenoid valve can be provided by level sensors, flow meters, PLC, etc.
- Available for General Purpose or Hazardous applications

#### VECTOR Series
- Pilot Valve
- Available in different voltages (120 VAC, 220 VAC, 12VDC, 24 VDC)
- NAMUR mounting interface
- Class "F" coil standard (VECTOR PV4 and PV9), Class "H" coil standard (PV7)
- Easily field retrofitted for Spring Return and Double Acting operation

### Controls and Monitoring

#### Integrated Solution
- Switches, sensors, pilot and spool valve in a single platform
- NEMA 4/4X, IP67 (NEXUS-LS™) or ATEX NEMA 7 (NEXUS-LX™) certified
- Suitable for use on rotary applications for double acting or spring return actuators

#### As-I device with two internal sensors and termination points for connecting additional sensors as well as two outputs to operate pilot valves
- NEMA 4/4X, IP67 (NEXUS-ID™) or ATEX NEMA 7 (NEXUS-ID™)

#### Corrosion resistant non-metallic + stainless construction
- Hermetically sealed reed elements
- Handheld both AC and DC current

#### Fully adjustable set points for flexibility
- Two voltage sources required to power both solenoid valves
- Contact logic for each solenoid valve can be provided by level sensors, flow meters, PLC, etc.
- Available for General Purpose or Hazardous applications

#### VECTOR Series
- Pilot Valve
- NEMA 4/4X, IP67 (VECTOR PV4), ATEX NEMA 7, CSA Approved (VECTOR PV6)
- ATEX NEMA 7 (VECTOR PV7) or Intrinsically Safe, IECEx (VECTOR PV9)
- May be used as a 3-way or 4-way pilot valve for spring return and double acting actuators respectively
- Available in different voltages (120 VAC, 220 VAC, 12VDC, 24 VDC)
- NAMUR mounting interface
- Class "F" coil standard (VECTOR PV4 and PV9), Class "H" coil standard (PV7)
- Easily field retrofitted for Spring Return and Double Acting application
Controls and Monitoring

EXACT Series Positioner

The EXACT Series positioners control the position of a rotary actuator and its final control element by modulating the flow of air supply to the actuator.

V Series Positioner

The "V" Series Electro-Pneumatic (4-20mA) or Pneumatic (3-15psi) positioners are designed and manufactured to offer years of trouble-free and economical operation.

DMO Series Detachable Manual Override

The DMO series allows simple and reliable manual positioning of valves, dampers, and other quarter turn devices to override existing pneumatic or hydraulic rotary actuators.

MGO Series Manual Gear Operator

The MGO series features a rugged, industrial grade design suitable for all general industrial applications.

SC/SX Series Secondary Containment/Stem Extension

The SC/SX Series adds another level of containment to address fugitive emissions from stem packing.

The design also serves as a robust stem extension for applications on extremely hot lines, steam etc.

VW Series Filter Regulator

The VW series filter regulator provides accurate pressure regulation and high moisture removal.

Safety Accessories

NEMA 4, IP66 certified

EXACT P3 is Intrinsically Safe certified

EXACT P3 controls the position of a rotary actuator in response to an analog 4-20mA signal input

EXACT DH controls the position of a rotary actuator in response to a controlled input pressure of 3 to 15psi

NAMUR and ISO 5211 adjustable bracket mounting

ATEX NEMA 7 or Intronically Safe certified

Modular / field upgradable design

Precision Click Lock Calibration

NAMUR and ISO 5211 mounting

NEMA 4, NEMA 4X

Compact, modular design fits between valve and actuator for a complete manual override system

ISO 5211 Mounting

Three Stage Coupler (Actuator, Gear, Valve)

Powder coated exterior finish

ISO 5211 Mounting

Chainwheel option

Cast Iron construction

Standard ISO 5211 mounting system for modular attachment and field retrofit

Rugged and stable

304 Stainless Steel construction

Compact Design

Pressure gauge in PSI and BAR

High Pressure Manifold

Tank Bottom Valve

SMC9 Series with Vacuum Ends

SB7 Series with Quad4 actuator and NEXUS-PS proximity switch

SB7 Series with Purge Ports

TSB7 Series Manifold

SVF Flow Controls

Customized Solutions

Engineered Solutions tailored to meet your requirements

SVF designs and manufactures custom valves through our PRO-SPEC program. Here, we develop "process-specific" valves, automated valve and control packages to meet specific process requirements. Some of the custom projects include:

Tank Bottom Valve

SMC9 Series with Vacuum Ends

SB7 Series with Quad4 actuator and NEXUS-PS proximity switch

SB7 Series with Purge Ports
## SVF Flow Controls Standards

| **ASTM** | American Society for Testing Materials — Develops standards for materials, products, systems and services. |
| **ANSI** | American National Standards Institute — Organization that coordinates work among U.S. Standards writing groups; Works in conjunction with other groups such as ISO, ASME, ASTM, etc. |
| **API 598** | (American Petroleum Institute) Valve Inspection and Testing that covers the testing and inspection requirements for gate, globe, check, ball, plug and butterfly valves. |
| **ASME** | American Society of Mechanical Engineers — Develops standards and testing criteria for finished products. |
| **ASME-BPE** | International standard developed as an aid for the design and construction of equipment intended for use in the manufacturing of biopharmaceuticals. |
| **CGA** | The Compressed Gas Association (CGA) — Standards, technical information and recommendations dictate safe and environmentally responsible practices in the manufacture, storage, transportation, distribution and use of industrial gases. |
| **CRN** | Canadian Registration Number — Assigned by each province or territory of Canada to accept and register the design of a boiler, pressure vessel, or fitting. |
| **FDA** | Food and Drug Administration — A Federal agency responsible for protecting and promoting public health through the control and supervision of food safety, tobacco products, dietary supplements, prescription and over-the-counter pharmaceutical drugs, vaccines, biopharmaceuticals, ERED, cosmetics, animal foods & feed and veterinary products. |
| **NSF** | NSF International — An organization committed to public health that writes standards and certifies products for food, water and consumer products. |
| **ISO** | 5211 International Standards Association — A worldwide process control organization. An internationally recognized certification for manufacturers that comply with high standards of quality control. Developed standards ISO-9000 through ISO-9004 |
| **Lead Free** | Dictates that a product has been certified as meeting a weighted average lead content of ≤0.25% when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and plumbing fixtures. |
| **RoHS** | Restriction of Hazardous Substances — and impacts the entire electronics industry and many electrical products as well. |
| **REACH** | A regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. |
| **UL/FM** | Underwriter’s Laboratory — Tests and qualifies valve and fittings products under UL standards for safety. Factory Mutual — Develops standards and qualifies products for use by the general public. |
| **USP** | United States Pharmacopeia — Establishes written and physical standards for medicine, food ingredients, dietary supplements, and ingredients. |
SVF Flow Controls takes excellence to a new level in the flow control marketplace.

Our extensive product range, highly knowledgable staff, feature-rich website, digital initiatives and our ongoing customer-focused culture are all part of our role as the best supplier of valve and actuator technologies for demanding industries.

SVF products keep quality flowing all over the world in chemical, petro-chemical, power, pulp & paper, water/wastewater, oil & gas, refining, semiconductor, food & beverage, and pharmaceutical facilities and systems.

As an ISO 9001 certified company, we are committed to quality and continuous improvement in all that we do.

Don’t see what you need? No problem! Custom designs and products created to meet exact specifications are our specialty. We welcome all inquiries and consultation needs, and guarantee that our team will work diligently to satisfy your requirements.

Product pricing and availability

U.S. and Canada: Sales@SVF.net

Latin America: LatinAmerica@SVF.net

¡Llámamos! ¡Hablamos español!

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