



# **SVF Flow Controls, Inc.**

**VALVES • ACTUATORS • CONTROLS**



## **PRODUCT SPECIFICATION GUIDE**







# SVF Flow Controls, Inc.

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The SVF purpose statement...

***"To serve the process control marketplace as a valued resource and advisor on flow control applications."***

SVF has taken excellence to a new level in the flow control marketplace.

Our product mix, consultative staff, feature-rich website, digital initiatives and our ongoing customer centric culture all represent differentiating strategies that reflect our drive to be the very best supplier of valve and actuator technologies to a very demanding marketplace.

The SVF Resource Initiative blends all of these valued attributes into a seamless delivery system that begins with our Channel Partners, our Global Supply base and our motivated staff of talented flow control experts.

Our products are used and specified in chemical, petro-chemical, power, pulp & paper, water/wastewater, oil & gas, refining, semiconductor, food & beverage and pharmaceutical facilities, systems and markets throughout the world.

As an ISO-9001:2008 certified company we are committed to quality and continuous improvement in all that we do.

We welcome your inquiries and guarantee that our team will work diligently to satisfy your requirements. If you do not see what you need we will be happy to work with you to develop a product to meet your exact specifications.

***"What do you need today?"™***



Product pricing and availability:

- U.S. and Canada: Sales@SVF.net
- Latin America: LatinAmerica@SVF.net (Se Habla Español)
- Other geographic locations: International@SVF.net

Technical Support: Engineering@SVF.net

Finance Department: Accounting@SVF.net

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TECHNOLOGY • DESIGN  
**RESOURCE**  
SVF Flow Controls, Inc.  
APPLICATIONS • SOLUTIONS



Specifications subject to change. Please visit [www.SVF.net](http://www.SVF.net) for the latest product information.

See SVF's Standard Terms and Conditions.

Product Specification Guide v.02/12



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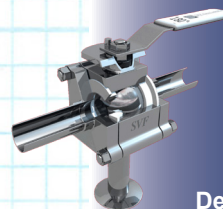
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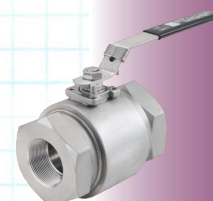
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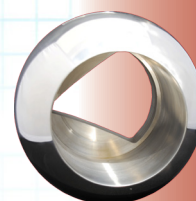
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**Go Right to the Source...**



Many of the products featured in this Product Specification Guide contain a unique "QR" Code at the bottom of the listing. Download or update the app for your SmartPhone (check with your carrier) and scan the "QR" Code to view and download the most up-to-date details and specifications about the product.



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Scan the "QR" Codes to view and download additional information on these products from SVF.  
If you are viewing this in Adobe Interactive Mode, click on the "QR" Codes to view and download the product Data Sheet.



## R8 & B8

### Three-Piece Ball Valves

#### R8 - Standard Port

#### B8 - Full Port

**Sizes:**

**R8** - 1/4" to 3" (1/4" & 3/8" are Full Port)

**B8** - 1/2" to 2-1/2"

**Materials:**

Stainless Steel, Carbon Steel,  
Alloy 20, Hastelloy

**End Connections:**

Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Materials:**

TFM1600™, UHMWPE, PEEK,  
Delrin (R8 up to 2"; B8 up to 1-1/2")

**R8 & B8 Design Features:**

- Encapsulated body seals to facilitate welding without disassembly.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Live-loaded stem packing ensures seal-tight pressure containment under thermal cycling.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



## N8/BN8

### Steam & Thermal Fluids

#### Three-Piece Ball Valve

**Sizes:**

**N8** (Standard Port) 1/4" to 3"

**BN8** (Full Port) 1/2" to 2-1/2"

**Materials:**

Stainless Steel, Carbon Steel,  
Alloy 20, Hastelloy

**End Connections:**

Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Material:** SupraLon™

**N8/BN8 Design Features:**

- High-performance design for industrial steam and thermal fluid applications up to 650°F.
- SupraLon™ seats specifically designed for high temperature, steam and thermal fluids.
- Encapsulated body seals to facilitate welding without disassembly.
- Three-piece "swing out" design.
- Live-loaded stem packing.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



## D8/T7

### Diverter Ball Valves

#### Three-Piece, Standard Port

**Sizes:**

1/4" to 2" (1/4" & 3/8" are Full Port)

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Materials:**

TFM1600™, SupraLon™,  
Delrin, UHMWPE, PEEK

**D8/T7 Design Features:**

- Available in a variety of flow patterns.
- Self-relieving seats that reduce operating torque and improve seat life.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Live-loaded stem packing ensures seal-tight pressure containment under thermal cycling.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



R8



B8



N8/BN8



D8/T7





## **L8** Instrumentation Three-Piece Ball Valve Standard Port

**Sizes:** 1/4" to 1"

**Material:** Stainless Steel

**End Connections:**

Compression Ends  
Compression Male Ends  
(without nut & ferrule)

**Seat Materials:**

TFM1600™  
SupraLon™  
Delrin  
UHMWPE  
PEEK

**L8 Design Features:**

- Compression ends compatible with all leading instrument fittings.
- Three-piece "swing out" design.
- Optional SupraLon™ seats for high temperature, steam and thermal fluid applications.
- Live-loaded stem packing ensures seal-tight pressure containment under thermal cycling.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



**L8**



## **F8/FB8** Fire Safe/Anti-Static Three-Piece Ball Valve (API-607)

**Sizes:**

F8 (Standard Port) 1/2" to 2"  
FB8 (Full Port) 1/4" to 2"

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Material:** TFM1600™

**F8/FB8 Design Features:**

- Fire-safe certification to API-607.
- Secondary metal back up seat.
- Anti-static stem device.
- Encapsulated body seal to facilitate welding without disassembly.
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



**F8/FB8**

These industrial 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.

- Three-piece construction enables valve to meet a wide range of piping requirements.
- Bi-directional flow, pressure-assisted sealing guarantees tight shut-off and low torque.
- Blowout proof stem design and self-compensating stem seal design automatically adjusts for wear and thermal cycling.
- Encapsulated body seals allows field welding without disassembly.
- Wide variety of materials, options and accessories.
- ISO 5211 mounting pad design.
- Three-piece valve features "swing-out" design for ease of maintenance.



## EZ9

**General Purpose  
Three-Piece Ball Valve  
Full Port**

**Sizes:** 1/4" to 2"

**Body Material:** Stainless Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat & Body Seal Material:**  
TFM1600™ (One Piece)

**EZ9 Design Features:**

- Designed and built for economical performance.
- Full ported flow path.
- Pressure rated for 1000 WOG.
- Three-piece "swing out" design.
- Socket weld complies with ANSI B16.11.
- Built-in ISO 5211 direct mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.
- Lockable in the "Open" or "Closed" position.



**EZ9**



## EZ6

**General Purpose  
Three-Piece Manual Ball Valve, Full Port**

**Sizes:** 1/4" to 4"

**Materials:**

Stainless Steel  
Carbon Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends

**Seat Material:** RTFE

**EZ6 Design Features:**

- Designed and built for economical performance.
- Full ported flow path.
- Pressure rated for 1000 WOG.
- Three-piece "swing out" design.
- Socket weld complies with ANSI B16.11.
- Available with Screwed Ends or Socket Weld Ends.
- Blowout proof stem adds safety and reliability.
- Lockable in the "Open" or "Closed" position.



**EZ6**



## MZ9

**Multi-Ported (Side-Ported)  
Three-Piece Ball Valve  
Full Port**

**Sizes:** 1/2" to 2"

**Material:** Stainless Steel

**End Connections:** Screwed Ends

**Seat Material:** PTFE

**MZ9 Design Features:**

- Designed & built for economical performance.
- Pressure rated for 1000 WOG.
- Locking handle is standard.
- L-Port and T-Port options.
- Positive shut-off on any of the three ports.
- Full Port flow path for maximum flow.
- Built-in ISO 5211 direct mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.
- Complete 316 Stainless Steel construction.



**MZ9**



*"What do you need today?"™*

# Economy Valves



## BZ9

**Three-Piece Bronze  
Ball Valve, Full Port**

**Pressure Rated for 600 psi.**

**Sizes:** 1/2" to 2"

**Materials:** Bronze (C84400)

**End Connections:**

Screwed Ends, Sweat Ends

**Seat Materials:** PTFE

**BZ9 Design Features:**

- Designed and built for economical performance.
- Patented Adjustable Screw Gland.
- Tested and inspected to API-598 Standard.
- Built-In ISO 5211 direct mounting pad for easy actuation.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Lockable in the "Open" or "Closed" position.
- Double stem seal to provide superior performance in high cycle applications.



**BZ9**



## BEV

**Two-Piece Ball Valve  
Full Port**

**Pressure Rated for 1000 WOG**

**Sizes:** 1/4" to 3"



**BEV**



## REV

**Economy Ball Valve  
Standard Port**

**Pressure Rated for 800 WOG**

**Sizes:** 1/4" to 2"

**Materials:** Stainless Steel

**End Connections:** Screwed Ends

**Seat Materials:** RTFE



**REV**

SVF Flow Controls General Purpose ball valves are built for economy and performance under a variety of process-control conditions, with solid construction, versatile designs and the most widely compatible materials.

- Series EZ9 offers ISO 5211 direct-mount automation.
- Offers a variety of connections to suit most applications.
- General Purpose valves are lightweight and compact in design.

**ez** valves.com

A selection of SVF Flow Controls General Purpose ball valves and *aero2* actuators are available on our eCommerce website, **ez**valves.com.

Log on to **ez**valves.com. and place your order for in-stock items readily available to ship quickly!





## SB7

High Purity Steam  
Three-Piece Ball Valve  
“Tube-ID” Port

**Sizes:** 1/4" to 6"

**Material:** Stainless Steel

**End Connections:**

Tri-Clamp Ends  
Extended Tube OD

**Seat Material:** TFM1600™

**SB7 Design Features:**

- ASME-BPE compliant.
- Complete 316L Stainless Steel construction.
- Weld bosses for easy purge porting on ends.
- ISO 5211 mounting pad for easy actuation.
- Encapsulated body seals to facilitate welding without disassembly.
- Controlled delta-ferrite chemistry.
- Exclusive “Fine-Adjust” handle for precise positioning.
- Drainable design with “Tube-ID” dimensions.
- Cavity filled TFM1600™ seat option available (SBC7).



SB7



## SB7F

High Purity Steam  
Three-Piece Forged  
Ball Valve, “Tube-ID” Port

**Sizes:** 1/4" to 2"

**Material:** Forged Stainless Steel

**End Connections:**

Tri-Clamp Ends  
Extended Tube OD

**Seat Material:** TFM1600™  
(Complies with 21 CFR 177.1550)

**SB7F Design Features:**

- ASME-BPE compliant.
- Controlled delta-ferrite chemistry.
- Exclusive “Fine-Adjust” handle for precise positioning.
- Drainable design with “Tube-ID” dimensions.
- Complete 316L Stainless Steel forged construction.
- ISO 5211 mounting pad for easy actuation.
- Encapsulated body seals to facilitate welding without disassembly.
- Cavity filled TFM1600™ seat option available (SBC7F).
- Available as a three-way diverter (TSB7F).



SB7F



## TSB7

Multi-Ported, High-Purity  
Three-Piece Ball Valve  
“Tube-ID” Port

**Sizes:** 1/4" to 4"

**Materials:** Stainless Steel,  
Forged Stainless Steel (TSB7F)

**End Connections:**

Tri-Clamp  
Extended Tube OD

**Seat Material:** TFM1600™

**TSB7 Design Features:**

- ASME-BPE compliant.
- Cavity filled TFM1600™ seat option available (Stainless Steel - TSBC7; Forged Stainless Steel - TSBC7F).
- Weld bosses for easy purge porting on ends.
- ISO 5211 mounting pad for easy actuation.
- Encapsulated body seals to facilitate welding without disassembly.
- Controlled delta-ferrite chemistry.
- Drainable design with “Tube-ID” dimensions.
- Side Port or Bottom Port.
- Exclusive “Fine Adjust” handle for precise positioning.



TSB7



*"What do you need today?"™*



**Opus™**  
**High-Performance**  
**Steam Trap Test Valve**  
**"Tube-ID" Port**

**Sizes:** 1/4" to 4"

**Material:** Stainless Steel

**End Connections:**

Tri-Clamp Ends  
Extended Tube OD

**Seat Material:** TFM1600™

**Opus Design Features:**

- Multifunctional valve providing three states of fluid control.
- Delivers full flow of clean steam through "Tube-ID" porting.
- Meets ASME/BPE guidelines for full flow, drainability, surface finish and materials.
- High-performance steam trap test valve designed exclusively for the high purity, pharmaceutical market.
- Available with a selection of trap connections, actuation and materials, including 316L cast, 316L forged, Hastelloy and AL6XN.



*Opus*



**SB79**  
**Three-Piece**  
**Hastelloy Ball Valve**  
**"Tube-ID" Port**

**Sizes:** 1/4" to 6"

**Material:** Hastelloy

**End Connections:**

Tri-Clamp Ends  
Extended Tube OD

**Seat Material:** TFM1600™

**SB79 Design Features:**

- ASME-BPE compliant.
- ETO ends are designed for Orbital Welding.
- Weld bosses for easy purge porting on ends.
- ISO 5211 mounting pad for easy actuation.
- Encapsulated body seals to facilitate welding without disassembly.
- Controlled delta-ferrite chemistry.
- Exclusive "Fine-Adjust" handle for precise positioning.
- Drainable design with "Tube-ID" dimensions.
- Cavity filled TFM1600™ seat option available (SBC79).



**SB79**

Scan the "QR" Codes to view and download additional information on these products from SVF.

# High Purity Valves

CleanFLOW™ ball valves by SVF Flow Controls are true process components, specifically engineered to meet the demanding requirements of pharmaceutical, biotech, semiconductor, cosmetics, food & beverage and other industries where particle generation and contamination can threaten the outcome of processing. All CleanFLOW™ ball valves are available with controlled delta-ferrite chemistry.

- Meet or exceed the latest ASME/BPE guidelines for valve and tubing designs.
- "Tube-ID" feature provides predictable flow rates and pressure drops, ensuring thorough cleaning and full drainability mandated by ASME/BPE.
- Use only the highest grade materials, sourced from certified suppliers.
- High-performance TFM1600™ seat material is standard.
- Wide range of options and accessories for industry-specific applications.

HIGH PURITY VALVES  
**CleanFLOW™**  
[CleanFLOWValves.net](http://CleanFLOWValves.net)

**More High Purity Valves** ➔





## SB9

### Sanitary Three-Piece Ball Valve "Tube-ID" Port

**Sizes:** 1/4" to 4"

**Material:** Stainless Steel

**End Connections:**  
Tri-Clamp Ends  
Extended Tube OD

**Seat Material:** TFM1600™

#### SB9 Design Features:

- TFM1600™ seat and body seal material complies with FDA CFR Title 21 Part 177.1550.
- Three-piece investment cast Stainless Steel.
- Cavity filled TFM1600™ seat option available (SBC9).
- "Tube-ID" flow path for drainability.
- Built-in ISO 5211 direct mounting pad for easy actuation.
- Three-piece "swing out" design.
- Blowout proof stem adds safety and reliability.
- Standard Anti-Static device.
- All materials comply with applicable ASTM material specifications and FDA, USDA and 3A requirements.



SB9



## SB6

### Sanitary Clamp End Three-Piece Ball Valve "Tube-ID" Port

**Sizes:** 1/2" to 4"

**Material:** Stainless Steel

**End Connections:** Tri-Clamp Ends

**Seat Material:** TFM1600™

#### SB6 Design Features:

- Three-piece investment cast Stainless Steel.
- All materials comply with applicable ASTM material specifications and FDA, USDA and 3A requirements.
- TFM1600™ seat and body seal material complies with FDA CFR Title 21 Part 177.1550.
- Sanitary clamp ends for easy valve removal.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Standard locking device.
- Drainable design with "Tube-ID" dimensions.
- Cavity filled TFM1600™ seat option available (SBC6).
- Blowout proof stem adds safety and reliability.



SB6



CleanTECH™ ball valves by SVF Flow Controls are competitively priced, manual and automated ball valve solutions for semiconductor, food & beverage, dairy, flavorings and cosmetics & fragrance. All materials comply with applicable ASTM material specifications and FDA, USDA and 3A requirements. All CleanTECH™ ball valves come standard with TFM1600™ seat material and "Tube-ID" flow path for drainability.



## TB

### Tank Bottom Valve

**Sizes: 1" to 3"**

#### Stainless Steel Construction

Consult SVF or scan the "QR" Code for additional information and specifications on the "TB" Series.



TANK BOTTOM



*"What do you need today?"™*

# Flanged Valves



## 41/B41 Rev3

**Anti-Static & Fire Safe  
Flanged Ball Valves  
Standard & Full Port**

**Sizes:**

41Rev3: 1-1/2" to 6", Standard Port  
B41Rev3: 1/2" to 8", Full Port

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

ANSI Class 150, Flanged

**Seat Materials:**

TFM1600™ (Standard)  
SupraLon™

**41/B41Rev3 Design Features:**

- Standard Fire Safe Certification to API 607, Anti-Static.
- Standard NACE MRO175.
- Optional SupraLon™ seats for higher temperature, steam and thermal fluid applications.
- ISO 5211 mounting pad (B41 Series is direct mount).
- Latch lock handle fully compatible with OSHA clamp for Lock-Out/Tag-Out.
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling.

Scan this "QR"  
Code to view  
both the Series  
41Rev3 and  
Series B41Rev3  
Data Sheets.



**41/B41Rev3**



## B42

**Anti-Static & Fire Safe  
Flanged Ball Valve  
ANSI Class 300, Full Port**

**Sizes:**

1/2" to 8"

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

ANSI Class 300, Flanged

**Seat Materials:**

RTFE (Standard)  
Carbon Filled TFE

**B42 Design Features:**

- Standard Fire Safe Certification to API 607, Anti-Static.
- Standard NACE MRO175.
- ISO 5211 mounting pad for easy actuation.
- Optional Carbon Filled TFE seats for higher temperature, steam and thermal fluid applications.
- Standard locking handle in both open and closed positions.
- Blowout proof stem adds safety & reliability.



**B42**

SVF Flow Controls flanged valves are available in Standard Port or Full Port ranging in sizes from 1/2" to 8".

**Service Applications for the SVF Flanged Valve Series include:**

- Anti-Static Design/Piping requirements
- Fire Safe (Tested to API 607)
- Flammable liquids
- Refining
- Petro-Chemical
- Chemical
- Steam & Thermal Fluids.
- Oil & Gas
- CNG Compressor & Dispenser Valves

For more information on the SVF CNG Compressor & Dispenser Valve Products, scan the "QR" code below.



**CNG Compressor & Dispenser  
Valve Products**





## H7

**High Pressure to 6000 psi.  
Three-Piece Ball Valves  
Standard Port**

**Sizes:** 1/2" to 2"

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
SAE

**Seat Materials:** Delrin, PEEK

**H7/H7-62 Design Features:**

- High pressure to 6000 psi.
- Stainless Steel fasteners and handle.
- Standard seat material is Delrin.
- Three-piece "swing out" design.
- Live-loaded stem packing.
- Blowout proof stem.



## H7-62

**Same Features as the H7  
with Code 62 Ends.  
Available in 3/4"**



H7 & H7-62



## HBEV

**High Pressure to 6000 psi.  
Seal Welded Ball Valve  
Full Port**

**Sizes:** 1/2" to 2"

**Material:** Stainless Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
SAE

**Seat Materials:** Delrin, PEEK

**HBEV Design Features:**

- High pressure to 6000 psi.
- Full Ported flow path.
- Fire safe to API-607.
- Seal welded construction.
- Latch lock handle is standard.
- Stainless Steel construction.
- Delrin seat material is standard with Screwed End Valves; PEEK seats standard with Socket Weld End Valves.
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling.
- ISO 5211 mounting pad for easy actuation.



HBEV



## P4

**High Pressure to 5000 psi.  
Three-Piece Ball Valve  
Standard Port**

**Sizes:** 1/2" to 1"

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
SAE

**Seat Materials:** Delrin, PEEK

**P4 Design Features:**

- High pressure to 5000 psi.  
1/2" P4 rated at 5500 psi.
- High-performance design for process-quality applications.
- Stainless Steel fasteners and handle.
- Standard seat material is Delrin.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling.
- Blowout proof stem adds safety and reliability.



P4



*"What do you need today?"™*



## **R8**

### **Process-Quality Three-Piece Ball Valve Standard Port**

**Sizes:** 1/4" to 3"  
(1/4" & 3/8" are Full Port)

**Materials:**  
Stainless Steel, Carbon Steel,  
Alloy 20, Hastelloy

**End Connections:**  
Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Materials:**  
TFM1600™, UHMWPE, PEEK,  
Delrin (Up to size 2")

#### **R8 Design Features:**

- Encapsulated body seals to facilitate welding without disassembly.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Live-loaded stem packing ensures seal-tight pressure containment under thermal cycling.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.

Scan the "QR" Codes to view the Data Sheets and Pressure Ratings.



**R8**



## **B8**

### **Process-Quality Three-Piece Ball Valve Full Port**

**Sizes:** 1/2" to 2-1/2"

**Materials:**  
Stainless Steel, Carbon Steel,  
Alloy 20, Hastelloy

**End Connections:**  
Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Materials:**  
TFM1600™, UHMWPE, PEEK,  
Delrin (Up to size 1-1/2")

#### **B8 Design Features:**

- Full ported flow path in a high-performance design for process-quality applications.
- Encapsulated body seals to facilitate welding without disassembly.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Live-loaded stem packing.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



**B8**

# **High Pressure Valves**

High-pressure applications require precision engineering, rugged construction and special features for advanced performance and safety.

SVF Flow Controls offers a full range of high-pressure valves for all high-pressure applications including hydraulics, steam, oxygen, vacuum, thermal fluids, chemical, oil and gas, food processing and dry or liquid chlorine.

- Blow-Out Proof Stem adds safety and reliability.
- Downstream sealing design uses the force of flow for a tighter seal with less wear and lower operating torque.
- Available with SAE End Connections.
- Three-piece "swing out" construction enables valves to meet a wide range of piping requirements and offers easy access for in-line maintenance.

For more information on the SVF Oil & Gas Industry Products, scan the "QR" code below.



**Oil & Gas Industry Valve Products**





## C8

### Chlorine Service Three-Piece Ball Valve Standard Port

**Sizes:** 1/4" to 2"  
(1/4" & 3/8" are Full Port)

**Material:** Carbon Steel

**End Connections:**  
Screwed Ends  
Socket Weld Ends  
Flanged Ends

**Seat Material:** TFM1600™

#### C8 Design Features:

- Ideal for use in dry or liquid Chlorine Service.
- Meets the Chlorine Institute (Pamphlet 6) for piping systems in Dry Chlorine Service.
- Live-loaded stem packing ensures seal-tight pressure containment even under thermal cycling.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.



C8



## R89

### Three-Piece Hastelloy Ball Valve Standard Port

**Sizes:** 1/4" to 3"  
(1/4" & 3/8" are Full Port)

**Materials:** Hastelloy

**End Connections:**  
Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Materials:**  
TFM1600™  
Delrin (Up to 2")  
UHMWPE

#### R89 Design Features:

- All wetted parts are 100% Hastelloy (ASTM A494, CW-12MW).
- Encapsulated body seals to facilitate welding without disassembly.
- ISO 5211 mounting pad for easy actuation.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- Full range of options to suit specific requirements.



R89 Hastelloy



## N8/BN8

### Steam & Thermal Fluids Three-Piece Ball Valve Standard Port & Full Port

**Sizes:**  
N8 (Standard Port) 1/2" to 3"  
BN8 (Full Port) 1/4" to 2-1/2"

**Materials:**  
Stainless Steel, Carbon Steel,  
Alloy 20, Hastelloy

**End Connections:**  
Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Material:** SupraLon™

#### N8/BN8 Design Features:

- High-performance design for industrial steam and thermal fluid applications.
- SupraLon™ seats specifically designed for higher temperature, steam and thermal fluids.
- Encapsulated body seal to facilitate welding without disassembly.
- Three-piece "swing out" design.
- Live-loaded stem packing.
- ISO 5211 mounting pad.
- Blowout proof stem adds safety and reliability.

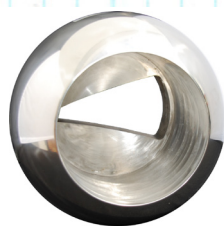


N8/BN8

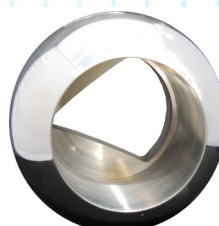


*"What do you need today?"™*

# Specialty Valves



30° "V" Ball



60° "V" Ball

## CONTROL VALVES

Characterized "V" Ball with 60° and 30° V-Port provides "equal percentage" flow control.

### VB41

#### Flanged Ball Valve

**Sizes:** 3" to 6"

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

ANSI Class 150, Flanged

**Seat Materials:**

SupraLon™ (Standard)  
TFM1600™

**VB41 Design Features:**

- Standard Fire Safe Certification to API 607, Anti-Static.
- Standard NACE MRO175.
- Standard seat material is SupraLon™ for higher temperature, steam and thermal fluid applications.
- Characterized "V" Balls available in 30° and 60° angles.
- ISO 5211 direct mounting pad for easy actuation.
- Live-loaded stem packing ensures seal-tight pressure containment under continuous cycling.

### V8

#### Three-Piece Ball Valve

**Sizes:** 1/4" to 2"

**Materials:**

Stainless Steel, Carbon Steel

**End Connections:**

Screwed Ends  
Socket Weld Ends  
Butt Weld Ends

**Seat Materials:**

SupraLon™ (Standard)  
TFM1600™  
Delrin, UHMWPE, PEEK

**V8 Design Features:**

- Encapsulated body seals facilitate welding without disassembly.
- Live-loaded stem packing ensures seal-tight pressure containment under continuous cycling.
- Three-piece "swing out" design offers easy access for in-line maintenance.
- ISO 5211 mounting pad for easy actuation.
- Blowout proof stem adds safety and reliability.

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.

- Secondary containment/fugitive emissions.
- Chlorine Service.
- Oil & Gas Service
- Hydrogen Peroxide Service.
- Steam & Thermal Fluids.
- Characterized "V" Ball, Tank Bottom and Multi-Ported designs.
- Specialty alloys, including Hastelloy, AL6XN and Duplex Stainless Steel.



VB41



V8

More Specialty Valves →





## SC

### Secondary Containment Device

Available for Valve Sizes 1/4" to 4"  
**ISO 5211 mounting pad**  
**316 Stainless Steel Shaft**  
**SupraLon™ Stem Seal**

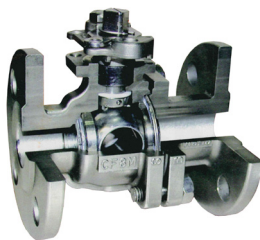
The SVF Secondary Containment Module "SC" offers enhanced protection against fugitive emissions in plant-wide applications. It is designed to meet the most stringent requirements of the ISA-SP-93 specification.

#### SC Design Features:

- Live-loaded, High-Performance secondary containment packing.
- Two 1/8" sniffer ports.
- Standard ISO 5211 mounting system for modular attachment and field retrofits.
- Fully enclosed stem and packing for insulated piping systems.
- 316 Stainless Steel construction.
- Optional locking device may be field retrofitted.



**Secondary Containment**



## Metal Seat

### ANSI Class 150 Flanged Ball Valve Full Port

The SVF Series of Metal Seated Flanged Ball Valves are available in a variety of sizes and seat materials for specialty applications in project environments. Consult an SVF Business Resource Specialist for additional specifications on our Metal Seated Ball Valves.



## TB

### Tank Bottom Valve Sizes: 1" to 3" Stainless Steel Construction

Consult SVF or scan the "QR" Code for additional information and specifications on the "TB" Series.



**TANK BOTTOM**



## Direct Mount Ball Valves

SVF offers a family of valves that are designed for direct mounting of ISO actuators. The benefits include improved cost, size, weight and safe and simple automation. Consult an [SVF Business Resource Specialist](#) for additional specifications on our Direct Mount Ball Valves.



## CNG

### Compressor & Dispenser Valve Products

SVF offers a family of valves that are robust, precision-engineered and with options and variations that suit a wide range of applications for containing and controlling compressed natural gas (CNG).



**CNG VALVE PRODUCTS**



*"What do you need today?"™*



## **aero<sup>2</sup>™** High-Performance Rack & Pinion Pneumatic Actuators



The *aero<sup>2</sup>* and Quad4 pneumatic rack and pinion actuators are manufactured using the latest materials and methods to provide dependable and smooth operation in demanding process-control conditions.

### **aero<sup>2</sup> and Quad4 Design Features:**

- Bi-Directional stroke adjustment.
- Available in Double Acting and Spring Return models.
- 1/4" NPT air inlet manifold.
- ISO 5211 base for universal mounting & accessory attachment.
- Heavy-duty, fully enclosed, high-performance motor is rated for both On/Off and modulating service.
- Actuator housing and fasteners meet NEMA 4 guidelines (weatherproof) or NEMA 7 (hazardous locations) requirements.
- Corrosion protection with thermally bonded polyester coating.
- All motors feature integral thermal overload protection.
- All models feature a manual override, ISO mounting pad and are wired for light indication.
- Designed for operation in temperatures from -40°F to 150°F.



**aero<sup>2</sup>™**



**Quad4**



**"E" Series**

## **"E" Series** Electric Actuator

SVF "E-Series" Electric Actuators are geared motors that provide rotary output (torque) to power all types of rotary valves. Output is achieved through the application of a supply voltage (AC or DC).

### **"E" Series Design Features:**

- Heavy-duty, fully enclosed, high-performance motor is rated for both On/Off and modulating service.
- Actuator housing and fasteners meet NEMA 4 guidelines (weatherproof) or NEMA 7 (hazardous locations) requirements.
- Corrosion protection with thermally bonded polyester coating.
- All motors feature integral thermal overload protection.
- All models feature a manual override, ISO mounting pad and are wired for light indication.
- Designed for operation in temperatures from -40°F to 150°F.

# **Actuators & Controls**

SVF Flow Controls offers a complete line of control devices, from pneumatic and electric actuators to limit switches, positioners, pilot valves and two-wire controls to complement our high-performance *aero<sup>2</sup>™* and Quad4 rack and pinion pneumatic actuators.

- Our *aero<sup>2</sup>™* and Quad4 pneumatic actuators are designed for universal operation of all quarter-turn valves and comes with a full array of control options for On/Off modulating service.
- Device ID provides a selection of products and protocols for two-wire, addressable systems including ASi, DeviceNet and all BUS systems.
- Our controls and control packages are feature-rich and performance engineered.
- Controls are available to meet international standards.



**More Actuators & Controls** ➔





aero<sup>2</sup> Actuator  
Gear Box Manual Override  
B41Rev3 Valve



NEXUS Valve Controller  
aero<sup>2</sup> Actuator  
B41Rev3 Flanged Valve



Opus Steam Trap Test  
Valve



## LS820-05 High-Performance Limit Switch

The SVF Model LS820-05 is a reliable and compact position feedback device fitted with two mechanical SPDT switches rated for 5A service.

### LS820-05 Design Features:

- NEMA 4/4X (IP67) enclosure to satisfy outdoor protection.
- “Quick-Set” cam is spring loaded and requires no special tools for calibration.
- Dual 1/2” NPT conduit entries facilitate wiring in the field and for additional ancillary pilot valve connections.
- Captive cover bolts remain intact during wiring to prevent loss.
- Stainless Steel trim and mounting hardware.
- Rugged and Compact design.
- Designed for operation in temperatures from -4°F to 176°F.

The LS820 Limit Switch is also available fitted with two *Proximity switches* rated for 5A service (Model LS820P). Consult SVF for additional information.



LS820-05



## /NEXUS Two-Position Discreet Valve Controller

NEXUS is a discrete valve controller optimizing a solution for on/off valve control position sensing in the process industries. Equipped with low watt miniature pilot valves, position sensors, and optional bus communication technology, the NEXUS helps plants, platforms, and pipelines improve productivity and increase safety in the harshest environments and toughest applications.

### NEXUS Design Features:

- Suitable for use on rotary applications for double acting or spring return actuators.
- NEMA 4/4X, IP67 certified, CE approved.
- Integrated Solutions (sensors, pilot, spool valve).
- NAMUR and ISO 5211 adjustable bracket mounting.
- 5/2 Aluminum spool valve, anodized coated in black.
- Single pilot actuated, with manual operator Cv=1.4.



/NEXUS



*"What do you need today?"™*



## ALS-200D Valve Position Sensor

A low profile sensor that delivers valve position status in demanding environments (IP-67). The technology utilizes two reed devices that sense a magnetic target in the Open and Closed positions.

- Corrosion Resistant (non-metallic + stainless construction).
- Hermetically sealed reed elements.
- Handles both AC and DC current.
- Simple mounting to NAMUR standards.



## NEMA 4 Solenoid Valves

- PV/VS Series used to pilot pneumatic actuators.
- Direct mount (NAMUR VDI/VDE 3845).
- Available as a standard NEMA 4/IP65 type (VS Series) or a NEMA 4/IP65 "UL/CSA" approved version (PV Series).



## V-Series Positioner "VP" Pneumatic and "VE" Electro-Pneumatic

The SVF "V" Series pneumatic (VP) and electro-pneumatic (VE) positioners are designed and manufactured to offer years of trouble-free and economical operation. Every component has been field-tested and field-proven to exceed expectations of performance and reliability.

### "V" Series Design Features:

- Universal mounting flexibility. Corrosion and vibration resistant/epoxy encapsulated components.
- Precise Click-Lock™ calibration.
- Standard flow or maximum flow Spool valves available.
- Stainless Steel fasteners and port reinforcements.
- Mechanical and Proximity switches available.
- Truly modular and totally field upgradeable.



"V" Series

# Actuators & Controls

Modularity is the cornerstone of the entire "V" Series line of Pneumatic and Electro-Pneumatic Positioners. Upgrading or modifying any unit is quick and hassle-free. Switch from pneumatic to electro-pneumatic with ease. Upgrade a Positioner in the field with Limit Switches and Position Transmitters easily. The "V" Series simplifies upgrades, minimizes inventory and eases service like no other line on the market.



The "V" Series I/P Converter is designed to provide flawless automatic compensation for supply pressure, atmospheric pressure and ambient temperature changes.

### "V" Series Options Include:



LIMIT SWITCH



POSITION TRANSMITTER



CHARACTERIZING CAM



UNIVERSAL MOUNTING KIT



PORT GAUGES



SPOOL VALVE







**SVF Flow Controls**  
INCORPORATED

Your Ultimate Resource is Only a "Click" Away...

**SVF Flow Controls, Inc.** has devoted a large part of our efforts to making it easier for you to get the information you need - when you need it. We have transformed our websites into dynamic, informative and useful places for decision makers and specifiers. At the center of it all is our primary website, **www.SVF.net**, where you can find the most current information on all of our products and initiatives - from Torque Tables to TopWorks, Data Sheets to IOM's and a complete library of Literature, Newsletters & Corporate Logos, for you to view and download.

Utilize our CADNow! program for creating 2D and 3D Models which may be downloaded as a component in the creation of your process piping system.

**CADNow!**  
v 10.2

Keep yourself in the loop with FlowRATE, the Monthly Resource Newsletter from SVF. Browse through all of our issues - past and present - each filled with articles from every Department in SVF.

**FLOWRATE**

Our dedication to continuous improvement brings the new SVF Sketch Pad™ where our Engineers develop ideas to complement our array of products and to bring new ideas to the Management Team.



Have a question? Through our website you can "Ask The Experts" for assistance in a specific product or a specific application.

**QUALITY FLOWS THROUGH US**

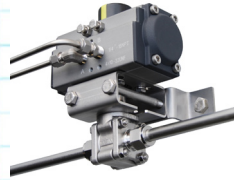
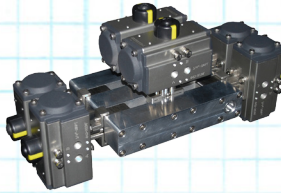
## Custom Valves Engineered for Unique Applications

SVF designs and manufactures custom valves through our PRO-SPEC program.

**PRO-SPEC**  
**PROCESS SPECIFIC**  
**WWW.PRO-SPEC.NET**

Here we develop "process-specific" valves, automated valves and control packages to meet specific process requirements. Some of the custom projects awarded to SVF via our PRO-SPEC group include:

Custom Manifolds, Panel Mount Systems and High Pressure Bar Stock Flanged.



If you are a SmartPhone user, **SVFmobile.net** provides specially formatted web pages that allow you to gather key bullet points and features about our products.

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**SVFProjects.net** is where we manage large projects by connecting all of the stakeholders through a common project site. This Project Management Tool is designed to provide Document Control and immediate access to project information using 24/7 Internet based transmission.

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