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SHARPE®

Industrial Valves & Automation

SMITH-COOPER®
INTERNATIONAL

SERIES 50M 2-PIECE FULL PORT 1000PSI BALL VALVE

Size Range: ¼″ - 3″
Body Material: 316 Stainless Steel
Seat Material: RTFE
Ends: Threaded
Max Pressure: 1000 CWP
Max Temp: 450° F

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

SERIES 58 1-PIECE UNI-BODY REDUCED PORT BALL VALVE

Size Range: ¼″ - 2″
Body Material: 316 Stainless Steel
Seat Material: PTFE
Ends: Threaded
Max Pressure: 800 CWP
Max Temp: 400° F

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

SERIES 58B7 1-PIECE UNI-BODY REDUCED PORT BALL VALVE

Size Range: ¼″ - 2″
Body Material: Carbon Steel
Seat Material: RTFE
Ends: Threaded
Max Pressure: 2000 CWP
Max Temp: 450° F

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- ASTM A108
- NACE MR0175: 2002 Compliant
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

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2-PIECE FULL PORT 2000PSI SEAL WELD BALL VALVE SERIES 50B

Size Range: ¼″ to 3″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Material: RTFE

Ends: Threaded

Max Pressure: 2000 CWP (¼″ - 2″)*
1500 CWP (2½″ - 3″)*

Max Temp: 450° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- NACE MR0175: 2002 Compliant
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

2-PIECE FULL PORT 3000PSI SEAL WELD BALL VALVE SERIES 50C

Size Range: ¼″ to 3″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: Delrin® (NPT), PEEK (SW)

Ends: Threaded & Socket Weld

Max Pressure: 3000 CWP*

Max Temp: 500° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- NACE MR0175: 2002 Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

2-PIECE FULL PORT 6000PSI SEAL WELD BALL VALVE SERIES 50F

Size Range: ¼″ to 2″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: Delrin®

Ends: Threaded

Max Pressure: 6000 CWP*

Max Temp: 180° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- NACE MR0175: 2002 Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 10 — 2-PIECE FULL PORT BRASS BALL VALVE

Size Range: ¼″ - 4″
Body Material: Forged Brass
Seat Material: PTFE
Ends: Threaded
Max Pressure: 600 CWP*
Max Temp: 450° F*

- ANSI/ASME B16.11
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 3903 — ECONOMY 3-PIECE FULL PORT BALL VALVE

Size Range: ¼″ - 2″
Body Materials: 316 Stainless Steel, Carbon Steel
Seat Material: RTFE
Ends: Threaded, Socket Weld
Max Pressure: 1000 CWP*
Max Temp: 450° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 5303 — ECONOMY 3-PIECE FULL PORT BALL VALVE

Size Range: ¼″ - 4″
Body Materials: 316 Stainless Steel, Carbon Steel
Seat Materials: PTFE
Ends: Threaded, Socket Weld, Butt Weld
Max Pressure: 1000 CWP ¼″ - 2″*
600 CWP 2½″ - 4″*
Max Temp: 450° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- Integral Mounting Pad
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

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API 608 3-PIECE STANDARD/FULL PORT BALL VALVE SERIES 80/89

Size Range: ¼″ to 4″ (3″ Series 89)

Body Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, SMO 254®

Seat Materials PTFE, TFM®, RTFE, Nova, Super Nova, Delrin®, Virgin Peek

Ends: Threaded, Socket Weld & Butt Weld

Max Pressure: Vacuum to 1970 PSI*

Max Temp: -50° to 600° F*

- ANSI/ASME Class 800; 80 Series up to 2-½″, 89 Series up to 2″
- ANSI/ASME Class 300; 80 Series 3″ & 4″, 89 Series 2-1/2″ & 3″
- API 608 Compliant (with Stainless Steel Stem)
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- NACE MR0175/ISO 15156 Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable In-Line Without Disassembly of Ends**
- Unique Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design. **Dependent on Seat Material.

3-PIECE STANDARD/FULL PORT BALL VALVE SERIES 84/99

Size Range: ½″ to 4″ (3″ Series 99)

Body Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C

Seat Materials: PTFE, TFM®, RTFE, Nova, Delrin®, UHMWPE, Virgin Peek

Ends: Threaded, Socket Weld, Butt Weld & Flanged End Options

Max Pressure: Vacuum to 1480 PSI*

Max Temp: -50° to 600° F*

- ANSI/ASME Class 600; 84 Series up to 2-1/2″, 99 Series up to 2″
- ANSI/ASME Class 300; 84 Series 3″ & 4″, 99 Series 2-1/2″ & 3″
- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- NACE MR0175: 2002 Compliant (Optional)
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable in-line without disassembly of ends**
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design. **Dependent on Seat Material.

CRYOGENIC STANDARD/FULL PORT BALL VALVE SERIES C80/C89 C70/C74

Size Range: 3-Piece: ¼″ - 4″ (3″ C89)
Flanged: ½″ - 4″

Body Material: 316 Stainless Steel

Seat Materials: PCTFE (Kel-F®), PTFE, TFM®, RTFE, Nova

Ends: Threaded, Socket Weld, Butt Weld, 150# & 300# Flanged

Max Pressure: 1480 PSI*

Max Temp: -400° F*

- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- BS 6364 Test Specification Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Unique Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

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SERIES V84 — 3-PIECE V-PORT CONTROL VALVE

Port: 15° V, 30° V or 60° V (Special Configurations Available)

Size Range: ¼″ - 4″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: PTFE, TFM®, RTFE, Nova, Delrin®, Virgin PEEK

Ends: Threaded, Socket Weld, Butt Weld & Flanged End Options

Max Pressure: Vacuum to 1480 PSI*

Max Temp: -50° to 600° F*

- ANSI/ASME Class 600 ¼″ – 2½″
- ANSI/ASME Class 300 3″- 4″
- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable in-line without disassembly of ends**
- 15°, 30° & 60° "V" Balls (Special Configurations Optional)
- "No Play" Coupler

* Dependent on Size, Body, Seat Material & Valve Design. **Dependent on Seat Material.

SERIES FS — FIRE SAFE STANDARD/FULL PORT BALL VALVES

Size Range: 3-Piece: ¼″ - 4″
Flanged: ½″ - 12″

Body Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C

Seat Materials: PTFE, TFM®, RTFE, Nova

Ends: Threaded, Socket Weld, Butt Weld & 150#, 300#, 600# Flanged

Max Pressure: 1480 PSI*

Max Temp: -50° to 550° F*

- Fire Safe API 607 4th Edition (FS84/FS99/FS50/FS54)
- Fire Safe API 607 6Th Edition (FS80/FS89/FS70/FS74)
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES W84/ W99 — 3 PIECE STEAM AND THERMAL FLUID BALL VALVES

Size Range: 3-Piece: ½″ - 4″ (3″ W99)

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: Nova, Virgin Peek,

Ends: Threaded, Socket Weld & Butt Weld

Max Pressure: 500 PSI - Maximum Working Steam Pressure*

Max Temp: 600° F for Thermal Fluids*

- ANSI/ASME Class 600 ¼″ – 2½″ W84 Series (¼″-2″ W99)
- Class 300 3″- 4″ 84 Series (2½″-3″ W99)
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Graphite Seals
- Weldable in-line without disassembly of ends**
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design. **Dependent on Seat Material.

3-PIECE CHLORINE STANDARD/FULL PORT BALL VALVE SERIES CL

Size Range: 3-Piece: ¼" - 4" (3" CL99)

Body Material: Carbon Steel

Seat Materials: PTFE, TFM®, RTFE, Nova, Super Nova, Delrin®, Virgin PEEK

Ends: Threaded, Socket Weld, Butt Weld, 150#, 300#, 600#, Flanged

Max Pressure: 1480 PSI*

Max Temp: 550° F*

- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable in-line without disassembly of ends**
- Degreased and Sealed in a Bag for Chlorine Applications
- Tank Pad Made From Solid Bar
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

**Dependent on Seat Material.

3-PIECE HIGH PRESSURE BALL VALVE STANDARD PORT SERIES 60

Size Range: ¼" - 2"

Body Materials: 316 Stainless Steel, Carbon Steel,

Seat Materials: Delrin®, PEEK

Ends: Threaded, Socket Weld, Butt Weld Sch. 160 & Flanged End Options

Max Pressure: Vacuum to 6000 PSI*

Max Temp: -50° to 600° F*

- ANSI/ASME Class 2500
- ANSI/ASME B16.34
- NACE MR0175: 2002 Compliant (Optional)
- Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

METAL SEATED STANDARD/FULL PORT BALL VALVES SERIES M80/89 M70/74

Size Range:
3-Piece: ¼" to 4" (3" M89)
Flanged: ½" to 4" (Larger Szes POA)

Body Materials: 316 Stainless Steel, Alloy 20, Carbon Steel

Seat Materials: Stainless Steel Stellite 6 coated

Ends: Threaded, Socket Weld, Butt Weld, 150#, 300# Flanged

Max Pressure: 1970 PSI Max

Max Temp: 1000° F Max

- ANSI/ASME FCI 70-2, Class V
- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Integrated Fugitive Emission Ports (Optional)
- Unique Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

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SERIES D84 3-PIECE STANDARD PORT DIVERTER BALL VALVE

Size Range: ½″ - 4″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: PTFE, TFM®, RTFE, Nova, Delrin®, PEEK

Ends: Threaded, Socket Weld & Butt Weld

Max Pressure: 1480 PSI*

Max Temp: 600° F*

- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable in-line without disassembly of ends**
- Bottom or Side Port Entry
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 70 FLANGED 2-PIECE FULL PORT BALL VALVE API 608

Size Range: ½″ - 4″

Body Materials: 316 Stainless Steel, Carbon Steel, Alloy 20

Seat Materials: PTFE, TFM®, RTFE, Nova, Super Nova, Virgin PEEK

Ends: 150#, 300# Flanged

Max Pressure: 740 PSI*

Max Temp: 600° F*

- API 608 Compliant (with Stainless Steel Stem)
- ANSI/ASME B16.34
- ANSI/ASME B16.5
- ANSI/ASME B16.10
- NACE MR0175/ISO 15156 Compliant
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- ISO 5211 Integral Mounting Pad
- Unique Lockable Lever Handle
- Integrated Fugitive Emission Ports (Optional)

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 74 FLANGED 1-PIECE STANDARD PORT BALL VALVE API 608

Size Range: 1″ - 4″

Body Materials: 316 Stainless Steel, Carbon Steel, Alloy 20

Seat Materials: PTFE, TFM®, RTFE, Nova, Super Nova, Virgin PEEK

Ends: 150#, 300# Flanged

Max Pressure: 740 PSI*

Max Temp: 600° F*

- API 608 Compliant (with Stainless Steel Stem)
- ANSI/ASME B16.34
- ANSI/ASME B16.5
- ANSI/ASME B16.10
- NACE MR0175/ISO 15156 Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Unique Lockable Lever Handle
- Integrated Fugitive Emission Ports (Optional)

* Dependent on Size, Body, Seat Material & Valve Design.

FLANGED 2-PIECE FULL PORT / 1-PIECE STANDARD PORT BALL VALVE SERIES 50/54

Size Range: 50 Series: ½″ - 8″
54 Series: 1½″ - 8″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: TFM®, RTFE

Ends: 150# Flanged

Max Pressure: 285PSI*

Max Temp: 500° F*

- ANSI/ASME B16.34
- ANSI/ASME B16.5
- ANSI/ASME B16.10
- NACE MR0175: 2002 Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

BUTTERFLY VALVE SERIES 17

Size Range: 2″- 48″

Body Materials: Ductile Iron

Disc Materials: 316 Stainless Steel

Seat Materials: Buna-N, EPDM

Connections: Lug or Wafer

Max Pressure: 2″ - 12″ rated to 200 PSI*
14″ - 48″ rated to 150 PSI*

Max Temp: 275° F*

- API 609 Compliant
- MSS SP-67 Compliant
- MSS SP-25 Markings
- ISO 5211 Integral Mounting Pad
- Pinless Disc & Stem Design
- One Piece, Epoxy Painted Wafer & Lug Body
- Bidirectional
- Lug is Suitable for Dead-End Service

* Dependent on Size, Body, Seat Material & Valve Design.

2-PIECE STANDARD PORT 2000PSI BALL VALVE SERIES 5457

Size Range: ¼″ - 2″

Body Materials: 316 Stainless Steel, Carbon Steel

Seat Materials: RTFE, Nova

Ends: Threaded

Max Pressure: 2000 CWP ¼″ - 1″*
1500 CWP 1¼″ - 2″*

Max Temp: 500° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES N66 3-PIECE ECONOMY 3-PIECE FULL PORT TUBE BALL VALVE

Size Range: ½" - 4"

Body Material: 316 Stainless Steel

Seat Materials: TFM®, PTFE Cavity Fillers

Ends: Clamp, Butt Weld Tube Extended, Butt Weld Tube Short

Max Pressure: 1000 CWP ½" - 2"*
600 CWP 2 ½" - 4"*

Max Temp: 500° F*

- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 66 3-PIECE HIGH PURITY FULL PORT TUBE BALL VALVE

Size Range: ½" - 4"

Body Material: 316L Stainless Steel

Seat Materials: PTFE, TFM®, RTFE, PTFE Cavity Fillers

Ends: Clamp, Butt Weld Tube Extended, Butt Weld Tube Short

Max Pressure: 1480 PSI*

Max Temp: 500° F*

- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 88 3-PIECE HIGH PURITY BPE COMPLIANT FULL PORT TUBE BALL VALVE

Size Range: ¼" - 4"

Body Material: 316L Stainless Steel

Seat Materials: PTFE, TFM®, RTFE, PTFE Cavity Fillers

Ends: Clamp, Butt Weld Tube Extended, Butt Weld Tube Short

Max Pressure: 1480 PSI*

Max Temp: 500° F*

- ASME/BPE - 2009 Compliant
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- All Wetted Parts Polished to 14-18 Ra
- Lockable Lever Handle
- 8-10 Ra Electropolish (Optional)
- Purge Ports (Optional)

* Dependent on Size, Body, Seat Material & Valve Design.

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3 & 4 WAY SANITARY FULL PORT TUBE BALL VALVE — SERIES 75

Size Range: ½″ to 2″, 3″
Body Material: 316 Stainless Steel
Seat Materials: TFM®, TFM® Cavity Fillers
Ends: Clamp
Max Pressure: 1000 CWP ½″ - 2″*
800 CWP 3″*
Max Temp: -50° to 500° F*

- 4 Seat Design
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- 12 Different Flow Configurations
- "L", or "T" Port Solid Ball
- Ball & Ends Polished to 20 Ra
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

3-WAY AND 4-WAY FULL PORT BALL VALVE — SERIES 77

Size Range: ¼″ - 4″
Body Material: 316 Stainless Steel
Seat Materials: TFM®, TFM® Cavity Filler
Ends: Threaded, Socket Weld, Butt Weld, 150#, 300# Flanged
Max Pressure: 600 CWP*
Max Temp: 500° F*

- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- 4 Seat Design
- ISO 5211 Direct Mount Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- 14 Different Flow Configurations
- "L", "T" or "LL" Port Solid Ball
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

3-WAY FULL PORT BALL VALVE — SERIES 76

Size Range: ¼″ - 2″
Body Material: 316 Stainless Steel
Seat Materials: PTFE, TFM®
Ends: Threaded
Max Pressure: 1000 CWP*
Max Temp: 500° F*

- ANSI/ASME B16.11
- 4 Seat Design
- ISO 5211 Direct Mount Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- 10 Different Flow Configurations
- "L", or "T" Port Solid Ball
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES D88 3-PIECE HIGH PURITY FULL PORT TUBE DIVERTER BALL VALVE

Size Range: ½″ - 4″

Body Material: 316L Stainless Steel

Seat Materials: PTFE, TFM®, RTFE, PTFE Cavity Filler

Ends: Clamp, Butt Weld Tube Extended, Butt Weld Tube Short

Max Pressure: 1480 PSI*

Max Temp: 500° F*

- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Bottom or Side Port Entry
- All Wetted Parts Polished to 14-18 Ra
- Lockable Lever Handle
- Purge Ports (Optional)

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 86 3-PIECE INSTRUMENTATION BALL VALVE

Size Range: ¼″ - 1″

Body Material: 316L Stainless Steel

Seat Materials: PTFE, TFM®, RTFE, PTFE Cavity Filler

Ends: Instrumentation, Threaded

Max Pressure: 1480 PSI*

Max Temp: -50° to 500° F*

- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Lockable Lever Handle
- Purge Ports (Optional)

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES FB FLUSH BOTTOM TANK STANDARD/FULL PORT BALL VALVES

Size Range: ¼″ - 4″ (3″ 99/89 Series)

Body Materials: 316L Stainless Steel

Ends: Threaded, Socket Weld & Butt Weld, Clamp, Extended Butt Weld, 150#, 300# Flanged

Max Pressure: 1480 PSI*

Max Temp: -50° to 600° F*

- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable in-line without disassembly of ends**
- Tank Pad Made From Solid Bar
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

**Dependent on Seat Material.

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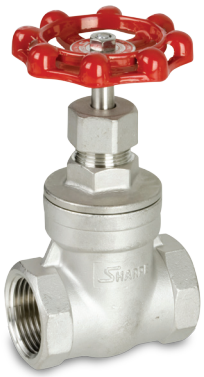
200 PSI GATE VALVE — SERIES 302

Size Range: ¼″ - 3″
Body Material: 316 Stainless Steel
Ends: Threaded, Socket Weld
Max Pressure: 200 CWP*
Max Temperature: 350° F*

- Hydrostatic Shell Test at 300 PSI
- Inside Screw
- Threaded in Bonnet
- Non-Rising Stem
- Solid Wedge Disc
- Integral Seat



* Dependent on Size, Body, Seat Material & Valve Design.

200 PSI GLOBE VALVE — SERIES 402

Size Range: ½″ - 2″
Body Material: 316 Stainless Steel
Ends: Threaded, Socket Weld
Max Pressure: 200 CWP*
Max Temp: 350° F*

- Hydrostatic Shell Test at 300 PSI
- Inside Screw
- Threaded in Bonnet
- Non-Rising Stem

* Dependent on Size, Body, Seat Material & Valve Design.

200 PSI SWING CHECK VALVE — SERIES 202

Size Range: ¼″ - 3″
Body Material: 316 Stainless Steel
Ends: Threaded, Socket Weld
Max Pressure: 200 CWP*
Max Temperature: 350° F*

- Hydrostatic Shell Test at 300 PSI
- Threaded in Cap

* Dependent on Size, Body, Seat Material & Valve Design.

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SERIES 34 — CLASS 800 FORGED GATE VALVE

Size Range: ¼" - 2"

Body Materials: Forged Stainless Steel (316L), Forged Steel

Trim Material(s):

Forged Steel: Trim #8
- Seat: A276-410 + H/F STL
- Disc: A276-410
- Back Seat: A105
- Stem: A276-410

Forged Stainless Steel: Trim #12
- Seat: A276 316 + STL
- Disc: A276 316
- Back Seat: A182-F316
- Stem: A276 316

Gasket Material(s):
- Forged Stainless Steel: 316 + Graphite
- Forged Steel: 304 + Graphite

Ends: Threaded, Socket Weld

Max Pressure: 1975 PSI*

Max Temp: 850° F*

- ANSI/ASME Class 800
- ANSI/ASME B16.11
- ANSI/ASME B1.20.1
- API 598
- API 602
- NACE MR0175: 2002 Compliant
- Bolted Bonnet
- Rising Stem

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 44 — CLASS 800 FORGED GLOBE VALVE

Size Range: ¼" - 2"

Body Materials: Forged Stainless Steel (316L), Forged Steel

Trim Material(s):

Forged Steel: Trim #8
- Seat: A105 + H/F STL
- Disc: A276-410
- Back Seat: A105
- Stem: A276-410

Forged Stainless Steel: Trim #12
- Seat: A182 F316 + STL
- Disc: A276 316
- Back Seat: A182-F316
- Stem: A276 316

Gasket Material(s):
- Forged Stainless Steel: 316 + Graphite
- Forged Steel: 304 + Graphite

Ends: Threaded, Socket Weld

Max Pressure: 1975 PSI*

Max Temp: 850° F*

- ANSI/ASME Class 800
- ANSI/ASME B16.11
- ANSI/ASME B1.20.1
- API 598
- API 602
- NACE MR0175: 2002 Compliant
- Bolted Bonnet
- Rising Stem

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 24, 24-SC — CLASS 800 FORGED PISTON CHECK & SWING CHECK VALVES

Size Range: ¼" - 2"

Body Materials: Forged Stainless Steel (316L), Forged Steel

Trim Material(s):

Forged Steel: Trim #8
- Seat: A105 + H/F STL
- Disc: A276-410

Forged Stainless Steel: Trim #12
- Seat: A182 F316 + STL
- Disc: A276 316

Gasket Material(s):
- Forged Stainless Steel: 316 + Graphite
- Forged Steel: 304 + Graphite

Ends: Threaded, Socket Weld

Max Pressure: 1975 PSI*

Max Temp: 850° F*

- ANSI/ASME Class 800
- ANSI/ASME B16.11
- ANSI/ASME B1.20.1
- API 598
- API 602
- NACE MR0175: 2002 Compliant
- Bolted Bonnet

* Dependent on Size, Body, Seat Material & Valve Design.

FLANGED GATE VALVE — SERIES 35

Size Range: ½" - 24"

Body Materials: 316 Stainless Steel, Carbon Steel

Trim Material(s):

Stainless Steel: Trim #10
- Seat: A351 CF8M
- Disc: A351 CF8M
- Back Seat: A351 CF8M
- Stem: A182 F316

Cast Steel: Trim #8
- Seat: A105 + H/F STL
- Disc: WCB + H/F 410
- Back Seat: A276-410
- Stem: A182-F6a

Gasket Material(s):
- Stainless Steel: 316 + Graphite
- Cast Steel: 304 + Graphite

Ends: 150#, 300#, 600# Flanged

Max Pressure: 1480 PSI*

Max Temp: 1000° F*

- ANSI/ASME B16.5
- ANSI/ASME B16.10
- ANSI/ASME B16.34
- API 598
- API 600 (Cast Steel)
- API 603 (Stainless Steel)
- NACE MR0175: 2002 Compliant (Cast Steel Only)
- Outside Screw and Yoke
- Bolted Bonnet
- Rising Stem and Non-Rising Handwheel
- Flexible Wedge, Fully Guided
- Integral Seat

* Dependent on Size, Body, Seat Material & Valve Design.

FLANGED GLOBE VALVE — SERIES 45

Size Range: ½" to 16" (12" 45614)

Body Materials: 316 Stainless Steel, Carbon Steel

Trim Material(s):

Stainless Steel: Trim #10
- Seat: A351 CF8M
- Disc: A351 CF8M
- Back Seat: A351 CF8M
- Stem: A182 F316

Cast Steel: Trim #8
- Seat: A105 + H/F STL
- Disc: WCB + H/F 410
- Back Seat: A276-410
- Stem: A182-F6a

Gasket Material(s):
- Stainless Steel: 316 + Graphite
- Cast Steel: 304 + Graphite

Ends: 150#, 300#, 600# Flanged

Max Pressure: 1480 PSI*

Max Temp: 1000° F*

- ANSI/ASME B16.5
- ANSI/ASME B16.10
- ANSI/ASME B16.34
- API 598
- NACE MR0175: 2002 Compliant (Cast Steel Only)
- Outside Screw and Yoke
- Yoke Integrated with Bonnet
- Bolted Bonnet
- Rising Stem and Non-Rising Handwheel
- Loose Disc
- Welded Seat

* Dependent on Size, Body, Seat Material & Valve Design.

FLANGED SWING CHECK VALVE — SERIES 25

Size Range: ½" to 24"

Body Materials: 316 Stainless Steel, Carbon Steel

Trim Material(s):

Stainless Steel: Trim #10
- Seat: A351 CF8M
- Disc: A351 CF8M

Cast Steel: Trim #8
- Seat: A105 + H/F STL
- Disc: A105 + H/F 410 (2"-14")
  WCB + H/F 410 (16" & Larger)

Gasket Material(s):
- Stainless Steel: 316 + Graphite
- Cast Steel: 304 + Graphite

Ends: 150#, 300#, 600# Flanged

Max Pressure: 1480 PSI*

Max Temp: 1000° F*

- ANSI/ASME B16.5
- ANSI/ASME B16.10
- ANSI/ASME B16.34
- API 598
- NACE MR0175: 2002 Compliant (Cast Steel Only)
- Swing Type
- Bolted Cover
- Integral Seat

* Dependent on Size, Body, Seat Material & Valve Design.

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SERIES 11 2-PIECE FULL PORT DIRECT MOUNT BALL VALVE

Pictured with SPNII Actuator

Size Range: ¼" - 2"
Body Material: 316 Stainless Steel
Seat Material: TFM®
Ends: Threade
Max Pressure: 1000 CWP - ¼" - 2"*
Max Temp: 500° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- ISO 5211 Direct Mount Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Low Profile, Space Saving, Dependable Automated Assemblies

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 12 DIR-ACT™ 2-PIECE FULL PORT DIRECT MOUNT BALL VALVE

Pictured with SPNII Actuator

Size Range: ¼" - 2"
Body Materials: 316 Stainless Steel, Carbon Steel
Seat Material: TFM®
Ends: Threaded
Max Pressure: 1500 CWP*
Max Temp: 500° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- ISO 5211 Direct Mount Pad
- Patented System Allows Adjustment of Stem Packing Nut with Actuator in Place (U.S. Patent No. 6,446935 B1)
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Low Profile, Space Saving, Dependable Automated Assemblies
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES 13 DIR-ACT™ 3-PIECE FULL PORT DIRECT MOUNT BALL VALVE

Pictured with SPNII Actuator

Size Range: ¼" - 4"
Material: 316 Stainless Steel
Seat Materials: TFM®, RTFE
Ends: Threaded, Socket Weld, Butt Weld
Max Pressure: 1000 CWP ¼" - 2"*
600 CWP 2½" - 4"*
Max Temp: 450° F*

- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- ISO 5211 Direct Mount Pad
- Patented System Allows Adjustment of Stem Packing Nut with Actuator in Place (U.S. Patent No. 6,446935 B1)
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Low Profile, Space Saving, Dependable Automated Assemblies
- Lockable Lever Handle

* Dependent on Size, Body, Seat Material & Valve Design.

SERIES SG GEAR OPERATOR

- Nine Sizes
- From 1,500 - 35,400 In/ lb.
- ISO 5211 Bolt Circle
- Cast Iron Body
- Visual Position Indicator

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PNEUMATIC ACTUATOR — SERIES SPN II

- Traditional Two-piston rack and pinion design
- Available in Double Acting and Spring Return configurations
- Anode Hardening & Epoxy Coated Body and Epoxy Coated End Caps, Optional Nickel Infused Coating for Sanitary Applications.
- Standard Temperature Range with Buna O-Rings: -4°F to 180°F
- EPDM Kits for Temperatures from -40°F to 300°F
- Industry Standard ISO 5211 drilling and NAMUR patterns
- Bi-Directional Travel Stops for ±5° adjustment for precise control
- Pinion is specially designed with inserts that allows for Direct Mounting capabilities to Butterfly Valves that have Square, Double D, or Keyed shaft designs
- Adapter plates available, allows for mounting to different industry standard bolt circles

4 PISTON PNEUMATIC ACTUATOR — SERIES 4X4

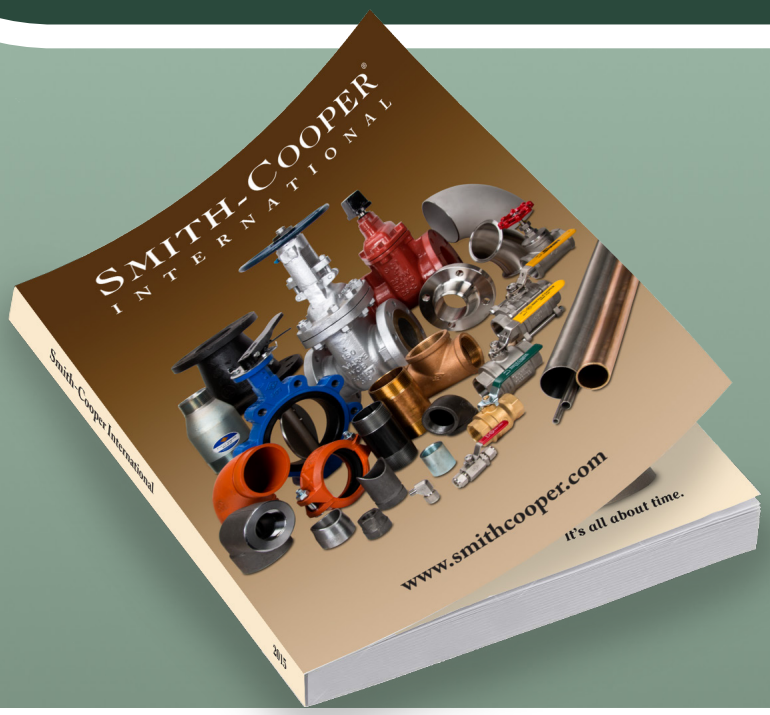
- Unique Four-piston rack and pinion design
- Anodized Interior and Exterior aluminum body with Epoxy Coated End Caps
- Industry Standard ISO 5211 drilling and NAMUR patterns
- Multi-Function Visual Indicator can be used for Three–Way indication
- Bi-Directional Travel Stops for ±5° adjustment for precise control
- Available in Double Acting and Spring Return configurations
- Nested spring sets, with appropriate centering rings on piston face and end caps
- Four Pistons allow for shorter travel and faster response times
- Reduced size means less air consumption, reducing costs with quicker response
- Generates more torque for reduced cost, size and air consumption
- Pinion is supported by four pistons; as a result, piston side load is minimized

LIMIT SWITCH — SERIES SL

- Rugged powder coated aluminum enclosure
- UL / CE rated enclosure
- UL / CSA / CE rated switch elements
- NEMA 4 / 4X and NEMA 7/9 enclosures
- Shatterproof dome
- Various NAMUR brackets available
- Cams and bearings on shaft are splined to allow quick adjustment and protect against the effects of vibration
- Mechanical or proximity switch elements available
- Printed circuit board allows for quick, safe and easy wiring
- Solenoid terminations inside enclosure eliminates extra cost

SOLENOIDS — SERIES SX

- Aluminum Body
- NBR Seats
- Manual Override
- High Flow: 1.8 CV
- 1/2″ Conduit Connection to Coil
- 1/4″ Port Size
- Changeable between Double Acting and Spring Return
- Coils are rated by CSA / UL
- Same Body accepts NEMA 4, NEMA 7, and ATEX Coils
- Voltage Options Available Upon Request



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Should any failure to conform to this warranty be discovered within the Warranty Period (defined below) and written notice of such nonconformity is provided to Supplier promptly after such discovery and within the Warranty Period, upon return of the defective product to Supplier in accordance with the Supplier's instructions and the reasonable determination by Supplier that the product (a) does not conform to the warranty and (b) has been stored, installed, used, maintained and operated in accordance with recognized engineering and piping practices, industry standards and the installation and operating manuals supplied by Supplier, Supplier will correct such defects by suitable repair or replacement of the product at Supplier's own expense or refund the portion of the price applicable to the nonconforming portion of the product (which alternative shall be at the sole discretion of Supplier). If any portion of the product so repaired or replaced fails to conform to the foregoing warranty, and written notice of such nonconformity is provided to Supplier promptly after discovery and within the original Warranty Period applicable to such product or 30 days from completion of such repair or replacement, whichever is later, Supplier will repair or replace such nonconforming product. The original Warranty Period shall not otherwise be extended.

The "Warranty Period" shall mean a period of five years from the date of delivery to its initial purchaser; provided however, with respect to Sharpe® Valves products, the "Warranty Period" shall mean a period that is the shorter of (i) twenty-four (24) months from the date of delivery to its initial purchaser or (ii) twelve (12) months after installation. In the event that Supplier elects to replace or repair the defective product, Supplier shall pay up to $50 per defective product for total cost of installation, in addition to repairing or replacing such product in accordance with the terms contained herein. In the event of multiple claims, such payment shall be no greater than $1,000 for each installation project. Except as set forth in the foregoing sentence, Supplier shall not be responsible for the cost of providing working access to the nonconforming products, including disassembly and re-assembly of non-Supplier supplied equipment, or for transportation to or from any repair facility, all of which shall be at the initial purchaser's risk and expense.

This warranty applies only during normal, intended and proper use that meets the above referenced conditions of storage, installation, usage, maintenance and operation and is absolutely void if the product has been damaged after purchase, or if it has been repaired (except if such repair was expressly authorized by Supplier and performed by Supplier), misused, altered or modified in any manner whatsoever. Without limiting the generality of the foregoing, this warranty is void if any portion of the product, including without limitation, any component, gasket, housing or bolt, has been misused, modified, altered, repaired (except if such repair was expressly authorized by Supplier and performed by Supplier), remanufactured or replaced (except if such replacement was expressly authorized by Supplier) in any manner by the initial purchaser, customer, user of the product or third party. COOPLOK™ Grooved products must be used with Smith Cooper International (SCI) branded bolts, gaskets and housings for this warranty to be valid. Rubber gaskets for Smith Cooper International (SCI) Grooved products must be stored or installed in an environment which preserves their elasticity for full functionality for the warranty to be valid. Supplier does not warrant or cover damages arising from a disaster such as a fire, flood, wind, earthquake, or lightning. The warranty set forth herein also does not cover normal and customary wear and tear. The limitations contained herein on the validity of the warranty shall govern not only the express warranty made by the Supplier herein, but also any other warranty which, contrary to the terms herein, is deemed or implied by law to be in effect. Products supplied by Supplier but manufactured by others are warranted only to the extent of the manufacturer's warranty, and only the remedies, if any, provided by the manufacturer will be allowed.

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