

SHARPE®



SMITH-COOPER®
INTERNATIONAL

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

API 608



Size Range: 1/4" to 4" (3" Series 89)
Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel, Brass
Ends: Threaded NPT & BSPT
Socket & Butt Weld
150#, 300#, 600# Flanged
Pressure: Vacuum to 3000 PSI*
Temperature: -50° to 600° F*

- Class 800 1/4"- 2-1/2"
- Class 300 3"- 4"
- ASME B16.34 Design
- NACE MR0175 Compliant
- Bottom Entry Live Loaded Stem
- High Cycle Stem Packing
- Encapsulated Body Bolts and Seal
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Oval & Tamper-Proof Handles Optional
- Weldable in-line without disassembly of ends
- Optional Integral Fugitive Emission Body

* Dependent on Seat Material

SERIES 84/99

3-PIECE STANDARD / FULL PORT BALL VALVE



Size Range: 1/4" to 4" (3" Series 99)
Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel, Brass
Ends: Threaded NPT & BSPT
Socket & Butt Weld
150#, 300#, 600# Flanged
Pressure: Vacuum to 3000 PSI*
Temperature: -50° to 600° F*

- ASME B 16.34 Design
- NACE MR0175 Compliant
- Bottom Entry Live Loaded Stem
- High Cycle Stem Packing
- Encapsulated Body Bolts and Seals
- Variety of Seats and Seals
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Floating Ball Design
- Extended or Oval Handles Optional
- Weldable in-line without disassembly of ends

* Dependent on Seat Material

SERIES 60

3-PIECE HIGH PRESSURE BALL VALVE



Port: Standard Port
Size Range: 1/4" to 2"
Materials: 316 Stainless Steel, Carbon Steel
Ends: NPT, SW, SAE, BW, BSPT, Flanged
Pressure: Vacuum to 6000 PSI*
Temperature: -50° to 600° F*

- ASME B16.34 Class 2500 Design
- Bottom Entry Live Loaded Stem
- High Cycle Stem Packing
- Encapsulated Body Bolts
- Variety of Seats and Seals
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Encapsulated Body Seals

* Dependent on Seat Material

SERIES V84

V-PORT CONTROL VALVE



Port: 15° V, 30° V or 60° V
(Special Configurations Available)
Size Range: 1/4" to 4"
Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
Ends: NPT, SW, BW, BSPT, 150#, 300#, 600# Flanged
Pressure: Vacuum to 3000 PSI*
Temperature: -50° to 600° F*

- 3-Piece Design
- Bottom Entry Live Loaded Stem
- High Cycle Stem Packing
- Encapsulated Body Bolts
- Variety of Seats and Seals
- "No Play" Coupling
- Integral Mounting Pad
- Metal Seats available for Slurry and High Temperatures Applications
- Weldable in-line without disassembly of ends

* Dependent on Seat Material

SERIES 88 HIGH PURITY BPE COMPLIANT FULL PORT TUBE BALL VALVE



Port:	Full Port
Size Range:	1/4" to 4"
Materials:	316L Stainless Steel, Alloy 20, Hastelloy C
Ends:	CE (Clamp Ends), BW, SW, BTE (Extended Butt Weld Tube)
Pressure:	up to 1480 PSI*
Temperature:	up to 550° F*

- ASME/BPE - 2009 Compliant
- 3-Piece Design
- High Cycle Stem Design
- Encapsulated Body Bolts
- Variety of Seats, Seals and Aseptic End Connections Available
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handles Optional
- All Wetted Parts Polished To 14-18 RA
- Optional 8-10 RA Electropolish
- Optional Purge Ports Available

* Dependent on Seat Material

SERIES 66 HIGH PURITY FULL PORT TUBE BALL VALVE



Port:	Full Port
Size Range:	1/2" to 4"
Material:	316L Stainless Steel
Ends:	CE (Clamp Ends), BTE (Extended Butt Weld Tube)
Pressure:	Up to 1480 PSI*
Temperature:	Up to 550° F*

- 3-Piece Design
- High Cycle Stem Packing
- Encapsulated Body Bolts
- Variety of Seats and Seals
- Integral ISO Mounting Handle
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Hygienic Seating Design
- Blowout Proof Stem

* Dependent on Seat Material

SERIES N66 ECONOMY 3-PIECE FULL PORT TUBE BALL VALVE



Port:	Full Port
Size Range:	1/2" to 2"
Material:	316 Stainless Steel
Ends:	BW, CE (Clamp End), BWE (Butt weld Extended)
Pressure:	1000 PSI
Temperature:	450° F

- ASTM A351 316
- 3-Piece Design
- High Cycle Stem Packing
- Integral ISO 5211 Mounting Pad
- Lockable Lever Handle Standard
- Oval Handle Optional
- Hygienic Seating Design
- Live Loaded Stem Packing
- Blowout Proof Stem
- Silicon Free Optional

SERIES 75 SANITARY MULTI-PORT BALL VALVE



Port:	Full Tube Port
Size Range:	1/2" to 2", 3"
Material:	316 Stainless Steel
Ends:	CE (Clamp End)
Pressure:	1000 PSI*
Temperature:	-50° to 500° F*

- 4 Seat Design
- Integral ISO 5211 Mounting Pad
- Lockable Lever Handle Standard
- "L" or "T" Port Solid Ball
- Blowout Proof Stem
- 20RA Polished Ball and Ends
- Optional TFM Cavity Filled Seats

* Dependent on Size

SERIES FS

FIRE SAFE BALL VALVES



Port:	Standard or Full Port
Size Range:	3-Piece: 1/2" to 2-1/2" Flanged: 1/2" to 12"
Materials:	316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
Ends:	NPT, SW, BW, BSPT, 150#, 300#, 600# Flanged
Temperature:	-50° to 550° F

- Fire Safe API 607 4th & 6th Edition
- ASME B 16.34 Design
- Bottom Entry Live Loaded Stem
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Gear Operator Optional

SERIES W84, W99, W50

STEAM AND THERMAL FLUID BALL VALVES



Port:	Standard or Full Port
Size Range:	3-Piece: 1/2" to 4" Flanged: 1/2" to 12"
Materials:	316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
Ends:	NPT, SW, BW, BSPT, 150#, 300#, 600# Flanged
Pressure:	500 PSI - Maximum Working Steam Pressure*
Temperature:	600° F for Thermal Fluids*

- Live Loaded Stem
- Integral Mounting Pad
- NOVA, PEEK, or Vespel Seats
- Encapsulated Grafoil Seals
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Gear Operator Optional

* Dependent on Seat Material

SERIES M

METAL SEATED BALL VALVES



Port:	Standard or Full Port
Size Range:	3-Piece: 1/2" to 4" Flanged: 1/2" to 12"
Materials:	316 Stainless Steel, Carbon Steel
Ends:	NPT, SW, BW, 150#, 300#, 600# Flanged
Pressure:	1480 PSI Max
Temperature:	1000° F Max

- Seat Leakage Rate to FCI 70-2, Class V
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Stainless Steel 17-4PH Stem
- Gear Operator Optional
- Scraper Seat

SERIES FB

FLUSH BOTTOM TANK VALVES



Port:	Standard or Full Port
Size Range:	1/4" to 4" for Tube and Pipe
Materials:	316 Stainless Steel, Alloy 20, Hastelloy C
Ends:	NPT, SW, BW, BSPT, CE (clamp ends), BTE (Butt Weld Extended Ends), 150#, 300#, 600# Flanged
Temperature:	-50° to 600° F*

- Fully Encapsulated Body Bolts
- Variety of End Configurations
- Choice of Seats and Seals
- Integral Mounting Pad
- Lockable, Lever, Extended or Oval Handle
- Angle Engineered Design for Automation
- Tank Pad Made From Solid Bar
- Purge Ports Optional

* Dependent on Seat Material

SERIES CL

CHLORINE BALL VALVE



Ports:	Standard or Full Port
Size Range:	3-Piece: 1/2" to 2" Flanged: 1/2" to 4"
Materials:	Carbon Steel with Hastelloy C or Monel Trim
Ends:	NPT, SW, BW, BSPT 150#, 300#, 600#, Flanged

- Chlorine Institute Pamphlet #6 Compliant
- Bottom Entry Live Loaded Stem
- High Cycle Stem Packing
- Encapsulated Body Bolts
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional

SERIES C

CRYOGENIC BALL VALVE



Ports:	Standard or Full Port
Size Range:	3-Piece: 1/2" to 4" Flanged: 1/2" to 4"
Material:	316 Stainless Steel
Ends:	NPT, SW, BW, BSPT, 150#, 300#, 600# Flanged

- Valve Meets Test Specifications of BS 6364 for Cryogenic Valves
- ANSI B16.34
- Live Load Stem Packing
- Encapsulated Body Bolts
- Encapsulated Body Seals
- Integral ISO 5211 Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional

SERIES 86

3-PIECE TUBE & INSTRUMENTATION BALL VALVE



Size Range:	1/4" to 1"
Material:	316 Stainless Steel
Ends:	Compression x Compression, NPT x Compression, SW x Compression
Pressure:	3000 PSI*
Temperature:	-50° to 600° F*

- 3 Piece Design
- Encapsulated Body Bolts
- Variety of Seats and Seals
- Integral ISO 5211 Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Live Loaded Stem
- High Cycle Stem Packing
- Floating Ball Design

* Dependent on Size

SERIES 17

BUTTERFLY VALVE



Size Range:	2"- 12" rated to 200 PSI 14"- 48" rated to 150 PSI
Body Materials:	Ductile Iron, 316 Stainless Steel
Disc Materials:	316 Stainless Steel, Aluminum Bronze, Nylon Coated Ductile Iron
Seats:	BUNA-N, EPDM, Teflon, Viton EPDM Food Grade
Connections:	Lug or Wafer
Temperature:	-30° to 275° F

- MSS SP - 67 and API 609 Compliant
- MSS SP - 25 Marking
- Self-lubricated Bushings Eliminate Side Loading
- Blowout Proof Shaft
- One-Piece Wafer and Lug Body, Epoxy Painted Offering Excellent Protection Against Abrasion and Corrosion
- Valves Available with Undercut Discs to 50 PSI
- ISO 5211 Mounting Pad
- Bidirectional or Dead-end Service
- Phenolic Backed Cartridge Seat

SERIES 77

3-WAY AND 4-WAY BALL VALVE



Size Range: Full Port 1/4" to 6"
Standard Port 8"

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

Ends: NPT, SW, BW, RF Flanged,
Extended Butt Weld,
Short Butt Weld

Pressure: 600 PSI

Temperature: 450° F

- ASME B16.5
- ASME B16.11
- 4-Seat Design
- Double Stem Seals
- Lockable Lever Handle Standard
- Oval Handle Optional
- Full Port Design
- Trunnion-Supported Ball 2" and up
- ISO 5211 Mounting Pad
- "T", "L" and Double "L" Port Balls
- 14 Different Flow Configurations
- Direct Mount Design
- Live Loaded Stem Packing
- Blowout Proof Stem

SERIES 76

3-WAY BALL VALVE



Size Range: 1/4" to 2"

Material: 316 Stainless Steel

Ends: NPT, SW

Pressure: 1000 PSI

Temperature: 450° F

- ISO 5211 Mounting Pad
- TFM Seats
- 4-Seat Design
- "L" or "T" Port Balls
- 10 Different Flow Configurations
- Direct Mount Design
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Live Loaded Stem Packing
- Blowout Proof Stem

SERIES D84,D86

3-PIECE DIVERter BALL VALVE



Ports: Standard or Full Port

Size Range: 1/4" to 4"

Materials: 316 Stainless Steel, Carbon Steel,
Alloy 20

Ends: NPT, SW, BW, BSPT

Pressure: 1480 PSI*

Temperature: 600° F*

- Live Loaded Stem
- High Cycle Stem Packing
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Encapsulated Body Bolts
- Variety of Seats and Seals
- Integral Mounting Pad
- Bottom or Side Entry

* Dependent on Seat Material

SERIES D88

HIGH PURITY 3-PIECE DIVERter BALL VALVE



Port: Full Port

Size Range: 1/2" to 4"

Material: 316L Stainless Steel

Ends: CE (clamp ends), BW,
BTE (Buttweld Tube Extended)

Pressure: 1480 PSI*

Temperature: 450° F*

- ASME/BPE - 2009 Compliant
- Bottom or Side Entry
- High Cycle Stem Packing
- Encapsulated Body Bolts
- Variety of Seats, Seals and
Aseptic End Connections
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- All Wetted Parts Polished To 14-18 RA
- Optional 8-10 RA Electro polish
- Optional Purge Ports Available

* Dependent on Seat Material

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

Port: Full Port
 Size Range: 1/2" to 4"
 Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
 Ends: 150#, 300# Flanged
 Pressure: Up to 720 PSI*
 Temperature: Up to 550° F*

- ASME B 16.34
- ASME B 16.5
- NACE MR0175 Compliant
- Blowout Proof Stem
- Bottom Entry Live Loaded Stem
- Integral Mounting Pad
- Variety of Seats and Seals
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Tamper Proof Locking Device Optional
- Optional Integral Fugitive Emission Body

* Dependent on Seat Material

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

Port: Standard Port
 Size Range: 1" to 4"
 Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
 Ends: Flanged Raised Face
 Pressure: Up to 720 PSI*
 Temperature: Up to 600° F*

- Class 150 and 300
- ASME B16.34 Design
- NACE MR0175/ISO 15156 Compliant
- Pressure Test API 598
- Fire Safe API 607 6th Ed.
- Live Loaded Stem
- Anti-Static Blowout Proof Stem
- Variety of Seats and Seals
- ISO 5211 Integral Mounting Pad
- Lockable Lever Handle Standard
- Oval & Extended Handles Optional
- Tamper Proof Locking Device Optional
- Optional Integral Fugitive Emission Ports

* Dependent on Seat Material

SERIES 50**FLANGED 2-PIECE FULL PORT BALL VALVE**

Port: Full Port
 Size Range: 1/2" to 12"
 Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
 Ends: 150#, 300#, 600# Flanged
 Pressure: Up to 1480 PSI*
 Temperature: Up to 600° F*

- ASME B 16.34
- ASME B 16.5
- NACE MR0175 Compliant
- Blowout Proof Stem
- Bottom Entry Live Loaded Stem
- Integral Mounting Pad
- Variety of Seats and Seals
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional

* Dependent on Seat Material

SERIES 54**FLANGED STANDARD PORT BALL VALVE**

Port: Standard Port
 Size Range: 1" to 8"
 Materials: 316 Stainless Steel, Carbon Steel, Alloy 20, Hastelloy C, Monel
 Ends: 150#, 300# Flanged
 Pressure: Up to 720 PSI*
 Temperature: Up to 550° F*

- ASME B 16.34
- ASME B 16.5
- NACE MR0175 Compliant
- Blowout Proof Stem
- Bottom Entry Live Loaded Stem
- Integral Mounting Pad
- Variety of Seats and Seals
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional

* Dependent on Seat Material

SERIES 58

1-PIECE REDUCED PORT BALL VALVE



Port: Reduced Port
Size Range: 1/4" to 2"
Material: 316 Stainless Steel
Ends: NPT
Pressure: 800 PSI
Temperature: 450° F

- Uni-body Design
- Blowout Proof Stem
- Lockable Lever Handle
- Oval Handle Optional
- RTFE Seats
- Threaded Ends

SERIES 58B7

1-PIECE REDUCED PORT BALL VALVE



Port: Reduced Port
Size Range: 1/4" to 2"
Material: Carbon Steel
Ends: NPT
Pressure: 2000 PSI
Temperature: 450° F

- ASTM A108
- Nace MR0175 Compliant
- Uni-body Design
- RTFE Seats
- 150 lb. WSP
- Stainless Steel Trim
- Blowout Proof Stem
- Lockable Lever Handle

SERIES 5457

2-PIECE STANDARD PORT 2000PSI BALL VALVE



Port: Standard Port
Size Range: 1/4" to 2"
Materials: 316 Stainless Steel, Carbon Steel
Ends: NPT
Pressure: 2000 PSI
Temperature: 500° F

- Blowout Proof Stem
- RTFE Seats
- 150 lb. WSP with RTFE Seats
- Nova Seats Optional
- Lockable Lever Handle Standard
- Oval Handle Optional
- Spring Return Handle Optional

SERIES 50M

2-PIECE FULL PORT 1000PSI BALL VALVE



Port: Standard port
Size Range: 1/4" to 3"
Material: 316 Stainless Steel
Ends: NPT
Pressure: 1000 PSI
Temperature: 500° F

- Blowout Proof Stem
- Lockable Lever Handle Standard
- Oval Handle Optional

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



Port: Full Port
 Size Range: 1/4" to 3"
 Materials: 316 Stainless Steel, Carbon Steel
 Ends: NPT
 Pressure: 2000 PSI (1/4" - 2")
 1500 PSI (2-1/2" - 3")
 Temperature: 450° F

- NACE MR0175 Compliant
- Blowout Proof Stem
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- RTFE Seats
- Seal Weld Design

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



Port: Full Port
 Size Range: 1/4" to 3"
 Materials: 316 Stainless Steel, Carbon Steel
 Ends: NPT, SW (1/4" - 2")
 Pressure: 3000 PSI
 Temperature: 500° F

- NACE MR0175 Compliant
- Anti-Static Device
- Threaded Ends
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- ISO 5211 Mounting Pad
- Live Loaded Stem
- Blowout Proof Stem
- Delrin Seats (NPT)
- PEEK Seats (SW)
- Seal Weld Design

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



Port: Full Port
 Size Range: 1/4" to 2"
 Materials: 316 Stainless Steel, Carbon Steel
 Ends: NPT
 Pressure: 6000 PSI
 Temperature: 500° F

- NACE MR0175 Compliant
- Anti-Static Device
- Threaded Ends
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- ISO 5211 Mounting Pad
- Live Loaded Stem
- Blowout Proof Stem
- Delrin Seats
- Seal Weld Design

SERIES 40 LUG & WAFER BALL VALVE



Size Range: 2", 3" & 4"
 Materials: 316 Stainless Steel,
 Carbon Steel, Alloy 20,
 Monel, Hastelloy C
 Seats: PTFE, RTFE, PEEK, TFM, NOVA
 Ends: Wafer, Lug
 Pressure: Class 150
 Temperature: -50° to 600° F*

- Unibody Design
- Full Port
- Variety of Seats
- Integral ISO 5211 Mounting Pad
- Space & Weight Saving Design
- Live Loaded Stem Packing
- ANSI Class 150 ASME B16.5 Wafer and Lug Ends
- Wall Thickness to ASME B16.34

* Dependent on Seat Material

SERIES 10

2-PIECE FULL PORT BRASS BALL VALVE



Port: Full Port
Size Range: 1/4" to 4"
Material: Brass
Ends: NPT
Pressure: 600 PSI
Temperature: 450° F

- Blowout Proof Stem
- Lockable Lever Handle Standard
- Oval Handle Optional
- RTFE Seats
- Threaded Ends

SERIES 3903

ECONOMY 3-PIECE FULL PORT BALL VALVE



Port: Full Port
Size Range: 1/4" to 4"
Materials: 316 Stainless Steel, Carbon Steel
Ends: NPT, SW
Pressure: 1000 PSI
Temperature: 450° F

- 3-Piece Design
- Blowout Proof Stem
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- RTFE Seats

SERIES 5303

ECONOMY 3-PIECE FULL PORT BALL VALVE



Port: Full Port
Size Range: 1/4" to 4"
Materials: 316 Stainless Steel, Carbon Steel
Ends: NPT, SW, BW
Pressure: 1000 PSI
Temperature: 450° F

- Bottom Entry Live Loaded Stem
- Integral Mounting Pad
- Lockable Lever Handle Standard
- Extended or Oval Handle Optional
- Available in Threaded, Socket-Weld or Buttweld Ends
- RTFE Seats

SERIES 302

200 PSI GATE VALVE



Size Range: 1/4" to 3"
Material: 316 Stainless Steel
Ends: NPT, SW
Pressure: 200 PSI
Temperature: 350° F

- Threaded or Socket Weld Ends
- Inside Screw
- Threaded Bonnet
- Non-Rising Stem
- Integral Seat
- Solid Wedge Disc

SERIES 402

200 PSI GLOBE VALVE



Size Range: 1/2" to 2"
Material: 316 Stainless Steel
Ends: NPT, SW
Pressure: 200 PSI
Temperature: 350° F

- Threaded or Socket Weld Ends
- Inside Screw
- Threaded Bonnet
- Rising Stem
- Integral Metal Seat

SERIES 202

200 PSI SWING CHECK VALVE



Size Range: 1/4" to 3"
Material: 316 Stainless Steel
Ends: NPT, SW
Pressure: 200 PSI
Temperature: 350° F

- Threaded or Socket Weld Ends
- Threaded Cap
- Integral Metal Seat

SERIES 34

CLASS 800 FORGED GATE VALVE



Size Range: 1/4" to 2"
Materials: 316L Stainless Steel, Carbon Steel
Ends: NPT, SW

- ASTM A182/F316L
- ASTM A105
- API 602
- NACE MR01075 Compliant
- Bolted Bonnet
- OS&Y Design

SERIES 44

CLASS 800 FORGED GLOBE VALVE



Size Range: 1/4" to 2"
Materials: 316L Stainless Steel, Carbon Steel
Ends: NPT, SW

- ASTM A182/F316L
- ASTM A105
- API 602
- NACE MR01075 Compliant
- Bolted Bonnet
- OS&Y Design

SERIES 24

CLASS 800 FORGED PISTON CHECK VALVE



Size Range: 1/4" to 2"
Material: 316L Stainless Steel, Carbon Steel
Ends: NPT, SW

- ASTM A182/F316L
- ASTM A105
- ASME B 16.34
- NACE MR0175 Compliant
- Bolted Bonnet

SERIES 24-SC

CLASS 800 FORGED SWING CHECK VALVE



Size Range: 1/4" to 2"
Materials: 316L Stainless Steel, Carbon Steel
Ends: NPT, SW

- ASTM A182/F316L
- ASTM A105
- ASME B 16.34
- NACE MR0175 Compliant
- Bolted Bonnet

SERIES 35

FLANGED GATE VALVE



Size Range: 1/2" to 48"*
Materials: 316 Stainless Steel, Cast Steel
Ends: 150#, 300#, 600# Flanged

- API 600
- API 603
- ASME B16.10
- ASME B 16.5
- Outside Screw and Yoke
- Bolted Bonnet
- Flexible Wedge, Fully Guided
- Integral Seats
- Available with Gear Operator
- Renewable Seat Rings
- Cast Steel Complies with NACE MR0175

* Depending on Material and Connection

SERIES 45

FLANGED GLOBE VALVE



Size Range: 1/2" to 16"*
Materials: 316 Stainless Steel, Cast Steel
Ends: 150#, 300#, 600# Flanged

- ASME B16.34
- ASME B16.10
- ASME B16.5
- Outside Screw and Yoke
- Bolted Bonnet
- Integral Seat and Back Seat
- Available with Gear Operator
- Cast Steel Complies with NACE MR0175

* Depending on Material and Connection

SERIES 25

FLANGED SWING CHECK VALVE



Size Range: 1/2" to 48"*
Materials: 316 Stainless Steel, Cast Steel
Ends: 150#, 300#, 600# Flanged

- ASME B16.34
- ASME B16.10
- ASME B16.5
- Bolted Cover
- Swing Type
- Integral Seats
- Renewable Seat Rings
- Cast Steel Complies with NACE MR0175

* Depending on Material and Connection

SERIES 11

2-PIECE DIRECT MOUNT BALL VALVE



Port:	Full Port
Size Range:	1/4" to 2"
Materials:	316 Stainless Steel, Carbon Steel
Ends:	NPT
Pressure:	1000 PSI
Temperature:	425° F

- Integral ISO 5211 Direct Mounting Pad
- For use with Pneumatic or Electric Actuators
- Compact Dependable Automated Assemblies
- Live Loaded Multiple Packing Stem Seal
- Lockable Lever Handle Standard
- Oval Handle Optional

* Shown with 4x4 pneumatic actuator

SERIES 12

2-PIECE DIRECT MOUNT BALL VALVE



Port:	Full Port
Size Range:	1/4" to 2"
Materials:	316 Stainless Steel, Carbon Steel
Ends:	NPT
Pressure:	2000 PSI
Temperature:	500° F

- Heavy Duty Stem
- Integral ISO 5211 Direct Mounting Pad
- For use with Pneumatic or Electric Actuators
- In-service Adjustable Stem Packing
- Compact Dependable Automated Assemblies
- Live Loaded Stem with 4 Belleville Washers
- Lockable Lever Handle Standard
- Oval Handle Optional

* Shown with SPN-II pneumatic actuator

SERIES 13

3-PIECE DIRECT MOUNT BALL VALVE



Port:	Full Port
Size Range:	1/4" to 4"
Materials:	316 Stainless Steel, Carbon Steel
Ends:	NPT, SW, BW
Pressure:	1000 PSI
Temperature:	450° F

- Integral ISO 5211 Direct Mounting Pad
- For use with Pneumatic or Electric Actuators
- In-service Adjustable Stem Packing
- Compact Dependable Automated Assemblies
- Live Loaded Stem with 4 Belleville Washers
- Lockable Lever Handle Standard
- Oval Handle Optional

* Shown with SPN-II pneumatic actuator

SERIES 17

GEAR OPERATOR



- Nine Sizes
- From 1,500 - 26,400 In/ lb.
- Fits Series 17 Butterfly Valves
- ISO Bolt Circle
- Cast Iron Body
- Visual Position Indicator
- Can be fitted for chainwheels, other handwheels or limit switches

SERIES SPN II

PNEUMATIC ACTUATOR



- Traditional Two-piston rack and pinion design
- Available in Double Acting and Spring Return configurations
- Hard Anodized Aluminum body with Epoxy Coated End Caps, optional Nickel Infused coating for sanitary applications
- Standard Temperature Range with Buna O-Rings: -4°F to 180°F
- Kits for low temp (-40°F to 80°F) or high temperature (+5°F to 300°F)
- Industry Standard ISO 5211 drilling and NAMUR patterns
- Bi-Directional Travel Stops for $\pm 5^\circ$ 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

SERIES 4x4

4 PISTON PNEUMATIC ACTUATOR



- 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 $\pm 5^\circ$ 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



- 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



- 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



Series 50M76 Ball Valves
Threaded Full Port
316 Stainless Steel
1/4" - 3"



Series N66 3-Piece Ball Valve
Tube Full Port
316 Stainless Steel
1/2" - 2"



**150#, 300#, 600#
Flanged Ball Valves**
Full & Reduced Port
Carbon Steel, 316 Stainless & Alloy 20
1/2" - 12"



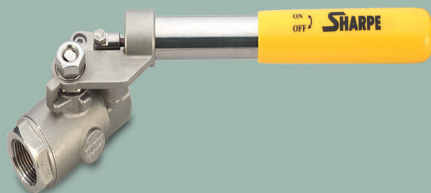
**Series 39034 & 39036
3-Piece Ball Valves**
Threaded & Socket Weld Full Port
Carbon Steel & 316 Stainless Steel
1/4" - 4"



High Performance Ball Valves
Available in a wide range of materials
Pressures up to 6000 lb.



3-Way & 4-Way Ball Valves
Threaded, Flanged or Clamp Ends
316 Stainless Steel
1/2" - 8"



Series 5457-DMH Ball Valve
2000psi 1/4" - 2" Standard Port
Carbon Steel & 316 Stainless Steel
Spring Return Handle



Automated Valve Packages
Pneumatic & Electric Actuators
Positioners, Limit Switches & Solenoids



Seal Weld Ball Valves
Standard & Full Port
Carbon Steel & 316 Stainless Steel
2000, 3000, & 6000 psi



200# Gate, Globe, Check
Threaded & Socket Weld
316 Stainless Steel
Gate, Globe 1/2" - 2"
Check 1/4" - 3"



150#, 300#, 600#
Cast Steel & Stainless Steel
Up to 36"



800# Gate, Globe, Check
Threaded & Socket Weld
Forged Carbon & Stainless Steel
1/4" - 2"



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