

Building connections that last™



Sharpe® Valves

Product Catalog

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Series 10 2-Piece Full Port 600 PSI Brass Ball Valve



Size Range: 1/4" - 4"
Body Material: Forged Brass
Seat Material: PTFE
Ends: Threaded
Max Pressure: 600 PSI CWP
Max Temp: 400° F

- ASME B16.11
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Option:
- Lockable Oval Handle

Series 58B7 1-Piece Uni-Body Reduced Port 800 PSI Ball Valve



Size Range: 1/4" - 2"
Body Material: Cast A351 CF8M
Stainless Steel†
Seat Material: PTFE
Ends: Threaded
Max Pressure: 800 PSI CWP
Max Temp: 400° F

- ASME B16.11
 - ASME B16.34
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Option:
- Lockable Oval Handle

† Closest cast equivalent to wrought 316 SS.

Series 58B 1 Piece Uni-Body Reduced Port 2000 PSI Ball Valve



Size Range: 1/4" - 2"
Body Material: Carbon Steel
Seat Material: RTFE
Ends: Threaded
Max Pressure: 2000 PSI CWP
Max Temp: 450° F

- ASME B16.11
- ASTM A108 Bar Stock
- NACE MR0175: 2002
- Bottom Entry, Blowout Proof Stem Design
- Lockable Lever Handle

Economy 3-Piece Full Port 1000 PSI Ball Valve Series 3903

Size Range: 1/4" - 2"
Body Materials: 316 Stainless Steel,
Carbon Steel
Seat Material: RTFE
Ends: Threaded, Socket Weld
Max Pressure: 1000 PSI CWP
Max Temp: 450° Fc

- ASME B16.11
 - ASME B16.34 - Shell & Seat Pressure Test
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Options:
- Lockable Oval Handle
 - Non-Locking Stem Extension



Economy 3-Piece Full Port Ball Valve Series 5303

Size Range: 1/4" - 4"
Body Materials: 316 Stainless Steel,
Carbon Steel
Seat Materials: PTFE
Ends: Threaded, Socket Weld,
Butt Weld
Max Pressure: 1000 PSI CWP 1/4" - 2"
600 PSI CWP 2 1/2" - 4"
Max Temp: 450° F

- ASME B16.11
 - ASME B16.25 Butt weld Ends
 - ASME B16.34 - Shell & Seat Pressure Test
 - Integral Mounting Pad
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Options:
- Lockable Oval Handle
 - Non-Locking Stem Extension



2-Piece Standard Port 2000 PSI Ball Valve Series 5457

Size Range: 1/4" - 2"
Body Materials: 316 Stainless Steel,
Carbon Steel
Seat Materials: RTFE, Nova
Ends: Threaded
Max Pressure: 2000 PSI CWP 1/4" - 1"*
1500 PSI CWP 1 1/4" - 2"*
Max Temp: 500° F*

- ASME B16.11
 - ASME B16.34
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Options:
- Lockable Oval Handle
 - Spring Return Handle
 - Non-Locking Stem Extension

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



Series 50M 2-Piece Full Port 1000 PSI Ball Valve



Size Range: 1/4" - 3"
 Body Material: 316 Stainless Steel
 Seat Material: RTFE
 Ends: Threaded
 Max Pressure: 1000 PSI CWP
 Max Temp: 450° F

- ASME B16.11
 - ASME B16.34
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Options:
- Lockable Oval Handle
 - Non-Locking Stem Extension

Series 50B 2-Piece Full Port 2000 / 1500 PSI Seal Weld Ball Valve



Size Range: 1/4" to 3"
 Body Materials: 316 Stainless Steel,
 Carbon Steel
 Seat Material: RTFE
 Ends: Threaded
 Max Pressure: 2000 PSI CWP
 (1/4" - 2")
 1500 PSI CWP
 (2 1/2" - 3")
 150 WSP
 Max Temp: 450° F

- ASME B16.10 End-to-End Dimensions
 - ASME B16.34 - Shell & Seat Pressure Test
 - NACE MR0175: 2002
 - Bottom Entry, Blowout Proof Stem Design
 - Lockable Lever Handle
- Options:
- Lockable Oval Handle
 - Non-Locking Stem Extension

Series 50C Two-Piece Full Port 3000 PSI Seal Weld Ball Valve



Size Range: 1/4" to 3"
 Body Materials: 316 Stainless Steel,
 Carbon Steel
 Seat Materials: Delrin® (NPT),
 PEEK (SW)
 Ends: Threaded &
 Socket Weld
 Max Pressure: 3000 PSI CWP
 Max Temp: 500° F PEEK Seats
 180° F Delrin Seats

- AMSE B16.11
- ANSI/ASME B16.34 - Shell & Seat Pressure Test
- NACE MR0175: 2002
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Anti-Static Device
- Live-Loaded Stem Seal
- Lockable Lever Handle

2-Piece Full Port 6000 PSI Seal Weld Ball Valve Series 50F

Size Range: ½" to 2"
Body Materials: 316 Stainless Steel,
Carbon Steel
Seat Materials: Delrin®
Ends: Threaded
Max Pressure: 6000 PSI CWP
Max Temp: 180° F

Delrin® is a registered trademark of Dupont.

- ASME B16.11
- ASME B16.34 - Shell & Seat Pressure Test
- NACE MR0175: 2002
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Anti-Static Device
- Live-Loaded Stem Seal
- Lockable Lever Handle



Flanged 2-Piece Full Port / 1-Piece Standard Port Ball Valve Series 50/54 & FS50/FS54

Size Range: 50 Series: ½" - 8"
54 Series: 1½" - 8"
FS50 Series: ½" - 12"
FS54 Series: 1½" - 4"
Body Materials: 316 Stainless Steel,
Carbon Steel
Seat Materials: TFM®, RTFE
Ends: 150#, 300# & 600# Flanged
Max Pressure: 1480 PSI*
Max Temp: 500° F*

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

- ASME B16.34 Compliant
- ASME B16.5 Flanges
- ASME B16.10 End-to-End Dimensions
- API 607 (FS Series)
- NACE MR0175: 2002
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Anti-Static Configuration
- Live-Loaded Stem Seal
- Lockable Lever Handle
- Optional Lockable Stem Extension



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*

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

- API 609
- MSS SP-67
- 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



Series 84/99 & FS84/FS99 3-Piece Standard / Full Port Ball Valve



Size Range: 1/4" to 4" 84
1/4" to 2-1/2" FS84
1/4" to 3" 99
1/4" to 2" FS99

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

**84/99
Seat Materials:** PTFE, TFM®, RTFE, Nova, Delrin®, UHMWPE, Virgin Peek

**FS84/FS99
Seat Materials:** PTFE, TFM®, RTFE, Nova

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

Max Pressure: Vacuum to 1480 PSI*

Max Temp: -50° to 600° F*

- ASME Class 600; 84/FS84 Series up to 2-1/2" 99/FS99 Series up to 2"
- ASME Class 300; 84/FS84 Series 3" & 4" 99 Series 2-1/2" & 3"
- API 607 (FS Series)
- ASME B16.5 Flanges
- ASME B16.11
- ASME B16.25 Buttweld Ends
- ASME B16.34 Compliant
- NACE MR0175: 2002 (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.

Series 80/89 & FS80/FS89 API 608 3-Piece Standard / Full Port Ball Valve



Size Range: 1/4" to 4" 80/FS80
1/4" to 3" 89/FS89

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

**80/89
Seat Materials:** PTFE, TFM®, RTFE, Nova, Super Nova, Delrin®, Virgin Peek

**FS84/FS99
Seat Materials:** PTFE, TFM®, RTFE, Nova, Super Nova

Ends: Threaded, Socket Weld & Butt Weld

Max Pressure: Vacuum to 1970 PSI*

Max Temp: -50° to 600° F*

- ASME Class 800; 80/FS80 Series up to 2-1/2", 89/FS89 Series up to 2"
- ASME Class 300; 80/FS80 Series 3" & 4", 89/FS89 Series 2-1/2" & 3"
- API 608 Compliant (with Stainless Steel Stem)
- API 607 6th Edition (FS Series)
- ASME B16.11
- ASME B16.25 Buttweld Ends
- ASME B16.34 Compliant
- NACE MR0175/ISO 15156
- 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 HP80/HP89

Size Range: 1/4" to 2-1/2" HP80
1/4" to 2" HP89

Body Materials: 316 Stainless Steel,
Carbon Steel

Seat Materials: Delrin®, Virgin Peek

Ends: Threaded, Socket Weld

Max Pressure: Vacuum to 3000 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**
- Unique Lockable Lever Handle

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

**Dependent on Seat Material



API 608 Flanged 2-Piece Full Port / 1 Piece Standard Port Ball Valve Series 70/74 & FS70/FS74

Size Range: 1/2" to 4" - 70/FS70
1" to 4" - 74/FS74

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

70/74

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

FS70/FS74

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

Ends: 150#, 300# Flanged

Max Pressure: 740 PSI*

Max Temp: 600° F*

- API 608 Compliant (with Stainless Steel Stem)
- API 607 6th Edition (FS Series)
- ASME B16.34 Compliant
- ASME B16.5 Flanges
- ASME B16.10 End-to-End Dimensions
- NACE MR0175/ISO 15156
- 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.



Lug & Wafer, Uni-Body Design Full Port Ball Valve Series 40

Size Range: 2" - 4"

Body Materials: 316 Stainless Steel,
Carbon Steel

Seat Materials: TFM®, RTFE

Ends: 150# Flanged

Max Pressure: 285 PSI

Max Temp: 500° F*

- ASME B16.34 - Wall Thickness
- ASME B16.5 Flanges
- NACE MR0175
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Handle

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



Series 60 3-Piece High Pressure Ball Valve Standard Port



Size Range:	1/4" - 2"	<ul style="list-style-type: none"> • ASME Class 2500
Body Materials:	316 Stainless Steel, Carbon Steel	<ul style="list-style-type: none"> • ASME B16.34 Compliant
Seat Materials:	Delrin®, PEEK	<ul style="list-style-type: none"> • NACE MR0175: 2002 (Optional)
Ends:	Threaded, Socket Weld, Butt Weld Sch. 160 & Flanged End Options	<ul style="list-style-type: none"> • Integral Mounting Pad • Blowout Proof Stem Design
Max Pressure:	Vacuum to 6000 PSI*	<ul style="list-style-type: none"> • Live-Loaded Stem Seal
Max Temp:	-50° to 600° F*	<ul style="list-style-type: none"> • Encapsulated Body Bolts & Seals • Lockable Lever Handle

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

Series M80/89 M70/74 Metal Seated Standard / Full Port Ball Valves



Size Range:	3-Piece: 1/4" to 4" (3" M89) Flanged: 1/2" to 4" (Larger Sizes POA)	<ul style="list-style-type: none"> • ANSI/ASME FCI 70-2, Class V • ASME B16.5 Flanges • ASME B16.11
Body Materials:	316 Stainless Steel, Alloy 20, Carbon Steel	<ul style="list-style-type: none"> • ASME B16.25 Buttweld Ends • ASME B16.34 Compliant
Seat Materials:	Stainless Steel Stellite 6 Coated	<ul style="list-style-type: none"> • ISO 5211 Integral Mounting Pad • Blowout Proof Stem Design
Ends:	Threaded, Socket Weld, Butt Weld, 150#, 300# Flanged	<ul style="list-style-type: none"> • Live-Loaded Stem Seal • Integrated Fugitive Emission Ports (Optional)
Max Pressure:	1970 PSI Max	<ul style="list-style-type: none"> • Unique Lockable Lever Handle
Max Temp:	1000° F Max	

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

Series C80/C89 C70/C74 Cryogenic Standard / Full Port Ball Valve



Size Range:	3-Piece: 1/4" - 4" (3" C89) Flanged: 1/2" - 4"	<ul style="list-style-type: none"> • ASME B16.5 Flanges • ASME B16.11
Body Material:	316 Stainless Steel	<ul style="list-style-type: none"> • ASME B16.25 Buttweld Ends • ASME B16.34
Seat Materials:	PCTFE (Kel-F®), PTFE, TFM®, RTFE, Nova	<ul style="list-style-type: none"> • BS 6364 Test Specification Compliant
Ends:	Threaded, Socket Weld, Butt Weld, 150# & 300# Flanged	<ul style="list-style-type: none"> • ISO 5211 Integral Mounting Pad • Blowout Proof Stem Design
Max Pressure:	1480 PSI*	<ul style="list-style-type: none"> • Live-Loaded Stem Seal
Max Temp:	-400° F*	<ul style="list-style-type: none"> • Encapsulated Body Bolts & Seals • Unique Lockable Lever Handle

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

TFM® is a registered trademark of Dyneon • PCTFE is frequently referred to as 3M's discontinued KEL-F® Brand.

3-Piece V-Port Control Valve Series V84

Port:	15° V, 30° V or 60° V (Special Configurations Available)
Size Range:	1/4" - 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
Max Pressure:	Vacuum to 1480 PSI*
Max Temp:	-50° to 600° F*

- ASME Class 600 1/4" - 2 1/2"
- ASME Class 300 3" - 4"
- ASME B16.5 Flanges
- ASME B16.11
- ASME B16.25 Butt Weld Ends
- 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.

3-Piece Steam and Thermal Fluid Ball Valves Series W84/W99

Size Range:	1/2" - 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*

- ASME Class 600 1/4" - 2 1/2"
W84 Series (1/4" - 2" W99)
- Class 300 3" - 4"
84 Series (2 1/2" - 3" W99)
- ASME B16.11
- ASME B16.25 Butt Weld Ends
- ASME B16.34 Compliant
- 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 CL84/CL99

Size Range:	1/4" - 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*

- ASME B16.5 Flanges
- ASME B16.11
- ASME B16.25 Butt Weld Ends
- ASME B16.34 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**
- 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.

Series D84 3-Piece Standard Port Diverter Ball Valve



Size Range:	1/2" - 4"	• ISO 5211 Integral Mounting Pad
Body Materials:	316 Stainless Steel, Carbon Steel	• Blowout Proof Stem Design
Seat Materials:	PTFE, TFM®, RTFE, Nova, Delrin®, PEEK	• Live-Loaded Stem Seal
Ends:	Threaded, Socket Weld & Butt Weld	• Encapsulated Body Bolts & Seals
Max Pressure:	1480 PSI*	• Weldable in-line without Disassembly of Ends**
Max Temp:	600° F*	• Bottom or Side Port Entry
		• 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:	1/2" - 4"	• ISO 5211 Integral Mounting Pad
Body Material:	316L Stainless Steel	• Blowout Proof Stem Design
Seat Materials:	PTFE, TFM®, RTFE, PTFE Cavity Filler	• Live-Loaded Stem Seal
Ends:	Clamp, Butt Weld Tube Extended, Butt Weld Tube Short	• Encapsulated Body Bolts & Seals
Max Pressure:	1200 PSI*	• Bottom or Side Port Entry
Max Temp:	500° F*	• All Wetted Parts Polished to 14-18 Ra
		• Lockable Lever Handle
		• Purge Ports (Optional)

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

Series D54 Flanged 1-Piece Standard Port Ball Valve



Size Range:	1" - 8"	• ASME B16.34
Body Materials:	316 Stainless Steel, Carbon Steel	• ASME B16.5 Flanges
Seat Materials:	TFM®, PTFE, Nova	• ASME B16.10 End-to-End Dimensions
Ends:	150# Flanged	• NACE MR0175: 2002
Max Pressure:	285 PSI	• ISO 5211 Integral Mounting Pad
Max Temp:	500° F*	• Blowout Proof Stem Design
		• Live-Loaded Stem Seal
		• Lockable Lever Handle

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

3-Way Full Port Ball Valve Series 76

Size Range: 1/4" - 2"
Body Material: 316 Stainless Steel
Seat Materials: PTFE, TFM®
Ends: Threaded
Max Pressure: 1000 PSI CWP
Max Temp: 450° F

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



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3-Way and 4-Way Full port Ball Valve Series 77

Size Range: 1/4" - 4"
Body Material: 316 Stainless Steel
Seat Materials: TFM®, TFM® Cavity Filler
Ends: Threaded, Socket Weld, Butt Weld, 150#, 300# Flanged
Max Pressure: 600 PSI CWP
Max Temp: 500° F

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



Series N66 3-Piece Economy Three-Piece Full Port Tube Ball Valve



Size Range:	1/2" - 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 PSI CWP 1/2" - 2"* 600 PSI CWP 2 1/2" - 4"*
Max Temp:	450° F*

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

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

Series 66 3-Piece High Purity Full Port Tube Ball Valve



Size Range:	1/2" - 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:	1200 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:	1/4" - 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:	1200 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-Piece Instrumentation Ball Valve Series 86

Size Range: 1/4" - 1"
Body Material: 316L Stainless Steel
Seat Materials: PTFE, TFM®, RTFE,
PTFE Cavity Filler
Ends: Instrumentation,
Threaded
Max Pressure: 1200 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
- Purge Ports (Optional)



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

Flush Bottom Tank Standard / Full Port Ball Valves Series FB

Size Range: 1/4" - 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.



Series 11 2-Piece Full Port Direct Mount Ball Valve



Pictured with 4x4 Actuator

Size Range: 1/4" - 2"
Body Material: 316 Stainless Steel
Seat Material: TFM®
Ends: Threaded
Max Pressure: 1000 PSI CWP
Max Temp: 450° F

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

Series 12 DIR-ACT™ 2-Piece Full Port Direct Mount Ball Valve



Pictured with SPNII Actuator

Size Range: 1/4" - 2"
Body Materials: 316 Stainless Steel, Carbon Steel
Seat Material: TFM®
Ends: Threaded
Max Pressure: 1500 PSI CWP
Max Temp: 450° F

- ASME B16.11
- ASME B16.34
- Direct Mount ISO 5211 Integral Mounting Pad
- Low Profile, Space Saving, Actuated Ball Valve
- Innovative Stem Packing System
- Quick, efficient stem packing adjustments with the actuator installed and the pipeline pressurized
- Full Port
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle - Option

Series 13 DIR-ACT™ 3-Piece Full Port Direct Mount Ball Valve



Pictured with SEA Actuator

Size Range: 1/4" - 4"
Material: 316 Stainless Steel
Seat Materials: TFM®, RTFE
Ends: Threaded, Socket Weld, Butt Weld
Max Pressure: 1000 PSI CWP 1/4" - 2"
600 PSI CWP 2 1/2" - 4"
Max Temp: 450° F

- ASME B16.11
- ASME B16.25 Buttweld Ends
- ASME B16.34
- Direct Mount ISO 5211 Integral Mounting Pad
- Low Profile, Space Saving, Actuated Ball Valve
- Innovative Stem Packing System
- Quick, efficient stem packing adjustments with the actuator installed and the pipeline pressurized
- Full Port
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Lockable Lever Handle - Option

Pneumatic Actuator Series SPN II

- Traditional Two-piston rack and pinion design
- Available in Double Acting and Spring Return configurations
- Anodized 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 $\pm 5^\circ$ 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



Four-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 $\pm 5^\circ$ 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



Electric Actuator SEA

- Enclosures Include: IP67 & NEMA 4X
- Enclosure Material: Dry Powder Coating Aluminum Alloy
- Motor: Standard extended duty cycle induction motor F insulation class for all models, Built-In Thermal Protection (275° F) prevents motor burning out, standard 120VAC, 30% duty cycle - various options available
- Position Indicator: All models except SEA-1 have continuous mechanical position indicator on the top of the actuator cover
- Manual Override: Non-clutch design, can be operated without any lever, clutch or brake upon power outage
- Gear Train: Lubricated, high alloy steel gear trains provide self-locking function to avoid back drive
- Working Conditions: -22° F to 149° F / Humidity 30% - 95%
- Certifications: CE / CSA (conforming to the test standard for outdoor use)
- Various Options: Heaters, additional limit switches, various voltages, thermostats, 75% duty rating, and more.



Series SL 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

Series SX 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 SG Gear Operator



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

200 PSI Gate Valve Series 302

Size Range: 1/4" - 2"
Body Material: 316 Stainless Steel
Ends: Threaded, Socket Weld
Max Pressure: 200 PSI CWP
Max Temp: 350° F

- Hydrostatic Shell Test at 300 PSI
- Hydrostatic Seat Test at 220 PSI
- Screwed Bonnet
- Non-Rising Stem
- Solid Wedge Disc
- Integral Seat



200 PSI Globe Valve Series 402

Size Range: 1/2" - 2"
Body Material: 316 Stainless Steel
Ends: Threaded, Socket Weld
Max Pressure: 200 PSI CWP
Max Temp: 350° F

- Hydrostatic Shell Test at 300 PSI
- Hydrostatic Seat Test at 220 PSI
- Screwed Bonnet
- Non-Rising Stem
- Solid Wedge Disc



200 PSI Swing Check Valve Series 202

Size Range: 1/4" - 3"
Body Material: 316 Stainless Steel
Ends: Threaded, Socket Weld
Max Pressure: 200 PSI CWP
Max Temp: 350° F

- Hydrostatic Shell Test at 300 PSI
- Screwed Cap



Series 3483 Class 800 Forged Gate Valve



Size Range:	1/4" - 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 A105/1600 PSI A182
Max Temp:	850° F A182/800° F A105

- ASME Class 800
- ASME B16.11
- ANSI/ASME B1.20.1
- API 598 - Inspection & Testing
- API 602 9th Edition
- NACE MR0175: 2002
- Bolted Bonnet
- Rising Stem

Series 4483 Class 800 Forged Globe Valve



Size Range:	1/4" - 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 A105/1600 PSI A182
Max Temp:	850° F A182/800° F A105

- ASME Class 800
- ASME B16.11
- ANSI/ASME B1.20.1
- API 598 - Inspection & Testing
- API 602 9th Edition
- NACE MR0175: 2002
- Bolted Bonnet
- Rising Stem

Series 2483, 2483SC Class 800 Forged Piston Check & Swing Check Valves



Size Range:	1/4" - 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 A105/1600 PSI A182
Max Temp:	850° F A182/800° F A105

- ASME Class 800
- ASME B16.11
- ANSI/ASME B1.20.1
- API 598 - Inspection & Testing
- API 602 9th Edition
- NACE MR0175: 2002
- Bolted Bonnet

Flanged Gate Valve Series 35

Size Range: 1/4" - 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*

- ASME B16.5 Flanges
- ASME B16.10 End-to-End Dimensions
- ASME B16.34 Compliant
- API 598 - Inspection & Testing
- API 600 (Cast Steel)
- API 603 (Stainless Steel)
- NACE MR0175: (Cast Steel Only)
- Outside Screw and Yoke
- Bolted Bonnet
- Rising Stem and Non-Rising Handwheel
- Flexible Wedge, Fully Guided
- Integral Seat

* Dependent on ASME Class Rating



Flanged Globe Valve Series 45

Size Range: 1/2" 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*

- ASME B16.5 Flanges
- ASME B16.10 End-to-End Dimensions
- ASME B16.34 Compliant
- API 598 - Inspection & Testing
- NACE MR0175: (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 ASME Class Rating



Flanged Swing Check Valve Series 25

Size Range: 1/2" 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*

- ASME B16.5 Flanges
- ASME B16.10 End-to-End Dimensions
- ASME B16.34
- API 598 - Inspection & Testing
- NACE MR0175: (Cast Steel Only)
- Swing Type
- Bolted Cover
- Integral Seat

* Dependent on ASME Class Rating



About ASC Engineered Solutions

ASC Engineered Solutions is defined by quality—in its products, services and support. With nearly 2,000 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruvlok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF®, SprinkFLEX®, Trenton Pipe and VEP. With headquarters in Oak Brook, IL, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



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