

Building connections that last™



# Sharpe® Valves

## Solutions 2020



## 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 CWP  
Max Temp: 400° F

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

- OPTIONS:
- Lockable Oval Handle

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



Size Range: 1/4" - 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

- OPTIONS:
- Lockable Oval Handle

## Series 58B7 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 CWP  
Max Temp: 450° F

- ANSI/ASME B16.11
- ASTM A108
- 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 CWP

Max Temp: 450° F

- ANSI/ASME B16.11
- ANSI/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 CWP 1/4" - 2"  
600 CWP 2 1/2" - 4"

Max Temp: 450° F

- ANSI/ASME B16.11
  - ANSI/ASME B16.25
  - ANSI/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 CWP 1/4" - 1"\*  
1500 CWP 1 1/4" - 2"\*

Max Temp: 500° F\*

- ANSI/ASME B16.11
- ANSI/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, Body, 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 CWP

Max Temp: 450° F

- ANSI/ASME B16.11
- ANSI/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 CWP (1/4" - 2")  
1500 CWP (2 1/2" - 3")  
150 WSP

Max Temp: 450° F

- ANSI/ASME B16.10
- ANSI/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 2-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 CWP

Max Temp: 500° F PEEK Seats  
180° F Delrin Seats

- ANSI/ASME 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:** 1/4" 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 - 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



TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M

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

**Size Range:** 50 Series: 1/2" - 8"  
54 Series: 1 1/2" - 8"  
FS50 Series: 1/2" - 12"  
FS54 Series: 1 1/2" - 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\*

- ANSI/ASME B16.34
- ANSI/ASME B16.5
- ANSI/ASME B16.10
- API 607 4th Edition (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



\* 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
- 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



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

## 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<sup>®</sup>, RTFE, Nova,  
Delrin<sup>®</sup>, UHMWPE,  
Virgin Peek

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

**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/FS84 Series up to 2-1/2"  
99/FS99 Series up to 2"
- ANSI/ASME Class 300;  
84/FS84 Series 3" & 4"  
99 Series 2-1/2" & 3"
- API 607 4th Edition (FS Series)
- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- 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 3-Piece Standard/Full Port Ball Valve

### API 608



**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<sup>®</sup>

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

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

**Ends:** Threaded, Socket Weld &  
Butt Weld

**Max Pressure:** Vacuum to 1970 PSI\*

**Max Temp:** -50° to 600° F\*

- ANSI/ASME Class 800;  
80/FS80 Series up to 2-1/2",  
89/FS89 Series up to 2"
- ANSI/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)
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- 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-Pc Full Port/1-Pc Std 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**

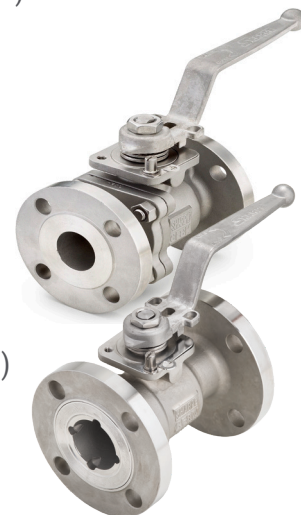
**Seat Materials:** PTFE, TFM®, RTFE,  
Nova, Super Nova,

**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)
- ANSI/ASME B16.34
- ANSI/ASME B16.5
- ANSI/ASME B16.10
- 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:** 1/2" - 8"

**Body Materials:** 316 Stainless Steel,  
Carbon Steel

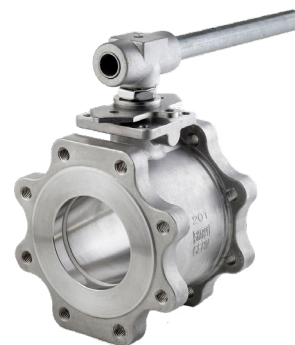
**Seat Materials:** TFM®, RTFE

**Ends:** 150# Flanged

**Max Pressure:** 285 PSI

**Max Temp:** 500° F\*

- ANSI/ASME B16.34 - Wall Thickness
- ANSI/ASME B16.5
- 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"

**Body Materials:** 316 Stainless Steel,  
Carbon Steel

**Seat Materials:** Delrin®, PEEK

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

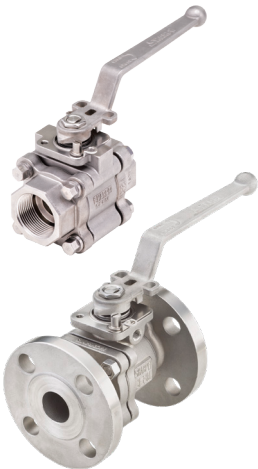
**Max Pressure:** Vacuum to 6000 PSI\*

**Max Temp:** -50° to 600° F\*

- ANSI/ASME Class 2500
- ANSI/ASME B16.34
- NACE MR0175: 2002 (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.

## 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)

**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.

TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M

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



**Size Range:** 3-Piece: 1/4" - 4" (3" C89)  
Flanged: 1/2" - 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.

TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M



## 3-Piece V-Port Control Valve **Series V84**

<b>Port:</b>	15° V, 30° V or 60° V (Special Configurations Available)	<ul style="list-style-type: none"> <li>• ANSI/ASME Class 600 ¼" – 2 1/2"</li> <li>• ANSI/ASME Class 300 3"- 4"</li> <li>• ANSI/ASME B16.5</li> <li>• ANSI/ASME B16.11</li> <li>• ANSI/ASME B16.25</li> <li>• ANSI/ASME B16.34</li> <li>• Blowout Proof Stem Design</li> <li>• Live-Loaded Stem Seal</li> <li>• Encapsulated Body Bolts &amp; Seals</li> <li>• Weldable in-line without disassembly of ends**</li> <li>• 15°, 30° &amp; 60° "V" Balls (Special Configurations Optional)</li> <li>• "No Play" Coupler</li> </ul>
<b>Size Range:</b>	1/4" - 4"	
<b>Body Materials:</b>	316 Stainless Steel, Carbon Steel	
<b>Seat Materials:</b>	PTFE, TFM®, RTFE, Nova, Delrin®, Virgin PEEK	
<b>Ends:</b>	Threaded, Socket Weld, Butt Weld & Flanged End	
<b>Max Pressure:</b>	Vacuum to 1480 PSI*	
<b>Max Temp:</b>	-50° to 600° F*	



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

\*\*Dependent on Seat Material.

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

<b>Size Range:</b>	1/2" - 4" (3" W99)	<ul style="list-style-type: none"> <li>• ANSI/ASME Class 600 ¼" – 2 1/2" W84 Series (1/4"-2" W99)</li> <li>• Class 300 3"- 4" 84 Series (2 1/2"-3" W99)</li> <li>• ANSI/ASME B16.11</li> <li>• ANSI/ASME B16.25</li> <li>• ANSI/ASME B16.34</li> <li>• ISO 5211 Integral Mounting Pad</li> <li>• Blowout Proof Stem Design</li> <li>• Live-Loaded Stem Seal</li> <li>• Encapsulated Body Bolts &amp; Graphite Seals</li> <li>• Weldable in-line without disassembly of ends**</li> <li>• Lockable Lever Handle</li> </ul>
<b>Body Materials:</b>	316 Stainless Steel, Carbon Steel	
<b>Seat Materials:</b>	Nova, Virgin Peek	
<b>Ends:</b>	Threaded, Socket Weld & Butt Weld	
<b>Max Pressure:</b>	500 PSI - Maximum Working Steam Pressure*	
<b>Max Temp:</b>	600° F for Thermal Fluids*	



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

\*\*Dependent on Seat Material.

TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M

## 3-Piece Chlorine Standard/Full Port Ball Valve **Series CL**

<b>Size Range:</b>	1/4" - 4" (3" CL99)	<ul style="list-style-type: none"> <li>• ANSI/ASME B16.5</li> <li>• ANSI/ASME B16.11</li> <li>• ANSI/ASME B16.25</li> <li>• ANSI/ASME B16.34</li> <li>• ISO 5211 Integral Mounting Pad</li> <li>• Blowout Proof Stem Design</li> <li>• Live-Loaded Stem Seal</li> <li>• Encapsulated Body Bolts &amp; Seals</li> <li>• Weldable in-line without disassembly of ends**</li> <li>• Degreased and Sealed in a Bag for Chlorine Applications</li> <li>• Tank Pad Made From Solid Bar</li> <li>• Lockable Lever Handle</li> </ul>
<b>Body Material:</b>	Carbon Steel	
<b>Seat Materials:</b>	PTFE, TFM®, RTFE, Nova, Super Nova, Delrin®, Virgin PEEK	
<b>Ends:</b>	Threaded, Socket Weld, Butt Weld, 150#, 300#, 600#, Flanged	
<b>Max Pressure:</b>	1480 PSI*	
<b>Max Temp:</b>	550° F*	



\* 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"
Body Materials:	316 Stainless Steel, Carbon Steel
Seat Materials:	PTFE, TFM <sup>®</sup> , RTFE, Nova, Delrin <sup>®</sup> , 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 D88 3-Piece High Purity Full Port Tube Diverter Ball Valve



Size Range:	1/2" - 4"
Body Material:	316L Stainless Steel
Seat Materials:	PTFE, TFM <sup>®</sup> , RTFE, PTFE Cavity Filler
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
- 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 D54 Flanged 1-Piece Standard Port Ball Valve



Size Range:	1" - 8"
Body Materials:	316 Stainless Steel, Carbon Steel
Seat Materials:	TFM <sup>®</sup> , PTFE, Nova
Ends:	150# Flanged
Max Pressure:	285 PSI
Max Temp:	500° F*

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

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

## 3 & 4 Way Sanitary Full Port Tube Ball Valve **Series 75**

**Size Range:** 1/2" to 2", 3"  
**Body Material:** 316 Stainless Steel  
**Seat Materials:** TFM®, TFM® Cavity Fillers  
**Ends:** Clamp  
**Max Pressure:** 1000 CWP 1/2" - 2"\*  
800 CWP 3"\*  
**Max Temp:** -50° to 500° F\*

- 4 Seat Design
- Direct Mount 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 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 CWP  
**Max Temp:** 450° F

- ANSI/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



TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M

## 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 CWP  
**Max Temp:** 500° F

- ANSI/ASME B16.5
- ANSI/ASME B16.11
- ANSI/ASME B16.25
- 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 3-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 CWP 1/2" - 2"\*  
600 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.

TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M



## 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\*

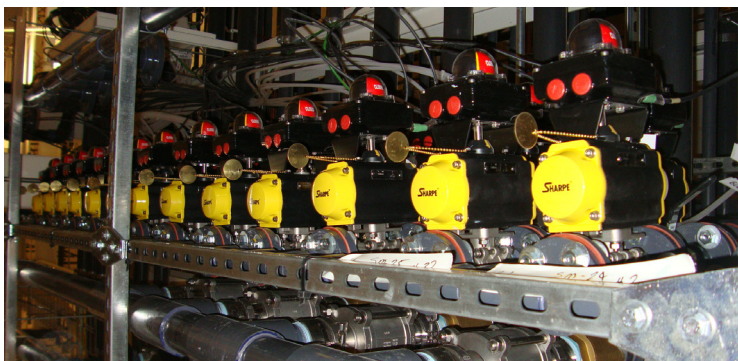
- ISO 5211 Integral Mounting Pad
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Encapsulated Body Bolts & Seals
- Weldable in-line without disassembly of ends\*\*
- Tank Pad Made From Solid Bar
- Lockable Lever Handle



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

\*\*Dependent on Seat Material.

TFM® is a registered trademark of Dyneon • Delrin® is a registered trademark of Dupont • Kel-F® is a registered trademark of 3M



## 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 CWP  
**Max Temp:** 450° F

- ANSI/ASME B16.11
- ANSI/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 CWP  
**Max Temp:** 450° F

- ANSI/ASME B16.11
- ANSI/ASME B16.34
- Direct Mount ISO 5211 Integral Mounting Pad
- Patented System Allows Adjustment of Stem Packing Nut with Actuator in Place (U.S. Patent No. 6,446,935 B1)
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Low Profile, Space Saving, Dependable Automated Assemblies
- Lockable Lever Handle

## 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 CWP 1/4" - 2"  
600 CWP 2 1/2" - 4"  
**Max Temp:** 450° F

- ANSI/ASME B16.11
- ANSI/ASME B16.25
- ANSI/ASME B16.34
- Direct Mount ISO 5211 Integral Mounting Pad
- Patented System Allows Adjustment of Stem Packing Nut with Actuator in Place (U.S. Patent No. 6,446,935 B1)
- Blowout Proof Stem Design
- Live-Loaded Stem Seal
- Low Profile, Space Saving, Dependable Automated Assemblies
- Lockable Lever Handle

## 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



## 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  $\pm 5^\circ$  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 WOG  
**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 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 CWP  
**Max Temp:** 350° F

- Hydrostatic Shell Test at 300 PSI
- Screwed Cap



## Series 34 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

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

## Series 44 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

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

## Series 24, 24-SC 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

- ANSI/ASME Class 800
- ANSI/ASME B16.11
- ANSI/ASME B1.20.1
- API 598
- 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\*

- ANSI/ASME B16.5
- ANSI/ASME B16.10
- ANSI/ASME B16.34
- API 598
- 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 ANSI 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

- ANSI/ASME B16.5
- ANSI/ASME B16.10
- ANSI/ASME B16.34
- API 598
- 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 ANSI 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

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

\* Dependent on ANSI Class Rating



### **About ASC Engineered Solutions**

ASC Engineered Solutions is defined by quality—in its products, services and support. With more than 1,400 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® and SprinkFLEX®. With headquarters in Commerce, CA, and Exeter, NH, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



[asc-es.com](http://asc-es.com)

Building connections that last™

