

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 Buttweld 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	- 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
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*	

* 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	- 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
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*	

* 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"
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*

- ASME Class 2500
- ASME B16.34 Compliant
- 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
- ASME B16.5 Flanges
- ASME B16.11
- ASME B16.25 Buttweld Ends
- ASME B16.34 Compliant
- 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.

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*

- ASME B16.5 Flanges
- ASME B16.11
- ASME B16.25 Buttweld Ends
- 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 • 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 Buttweld 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



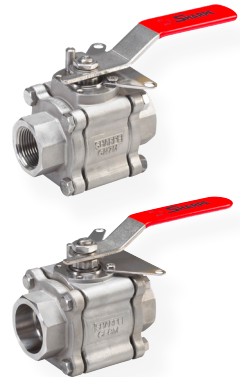
* Dependent on Size, Body, Seat Material & Valve Design.

** 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 Buttweld 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 Buttweld 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"
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 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®, 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®, PTFE, Nova
Ends:	150# Flanged
Max Pressure:	285 PSI
Max Temp:	500° F*

- ASME B16.34
- ASME B16.5 Flanges
- ASME B16.10 End-to-End Dimensions
- 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-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 Buttweld 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

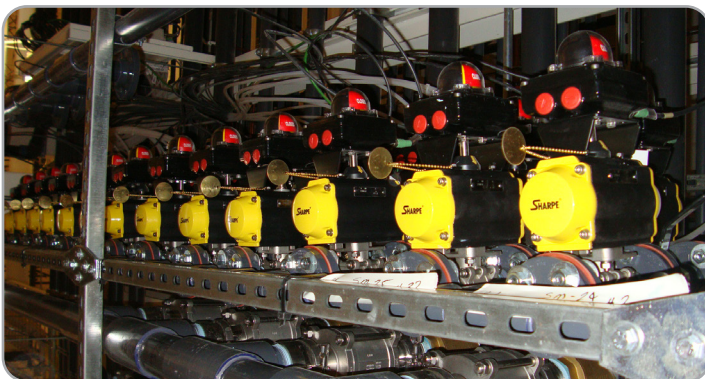
Size Range: 1/4" - 4"
 (3" 99/89 Series)
 Body Materials: 316L Stainless Steel
 Ends: Threaded, Socket Weld
 & Butt Weld, Clamp,
 Extended Butt Weld,
 150#, 300# Flanged
 Max Pressure: 1480 PSI*
 Max Temp: -50° to 600° F*

- 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