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B8 SERIES

1/4" - 3" **FULL PORT PROCESS QUALITY BALL VALVES**

Size

1/4" - 3"

End Connections:

NPT **Butt Weld** Socket Weld

Valve Materials: 316 Stainless Steel

Carbon Steel

Ball and Stem Materials:

316 Stainless Steel

Alloy 20 Monel Hastelloy C

Service Applications:

Hydraulics Chemical Steam Oil/Gas

Oxygen Food Processing Dry/Liquid Chlorine Vacuum

Thermal Fluids

Seat Materials

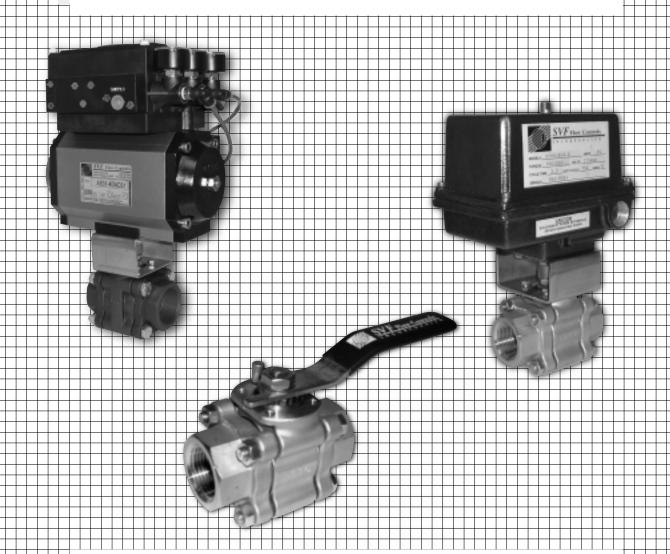
Teflon

Reinforced Teflon NRG

Delrin

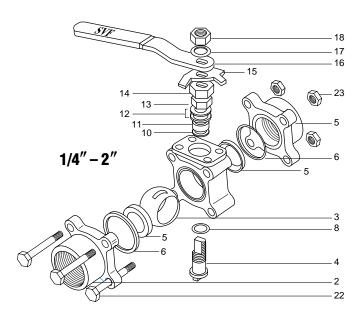
VXI

Tempre K (PEEK) UHMWPE

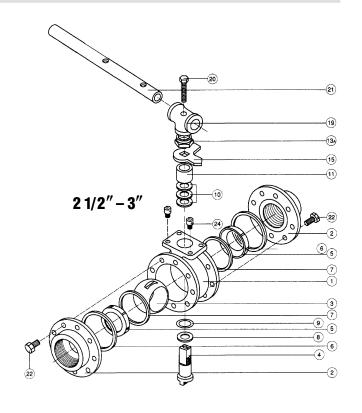


FEATURING FIELD WELDABILITY WITHOUT DISASSEMBLY

B8 VALVE COMPONENTS



Item #	Description	Material	
1	Body	Carbon Steel	316 Stainless
2	Body Connector	Carbon Steel	316L Stainless
3	Ball	316 Stainless Monel	Alloy 20 Hastelloy C
4	Stem	316 Stainless Monel	Alloy 20 Hastelloy C
5	Valve Seat	TFE, RTFE, NR Delrin, UHMW	
6	Body Connector Seal	TFE Graphoil	Buna "N" UHMWPE
7	Retainer Ring 21/2"-3"	316 Stainless	Carbon Steel
8	Stem Thrust Ring	NRG	
9	Stem Location Ring 21/2"-3"	Stainless Steel	
10	Stem Packing	NRG	
11	Gland Packing	Stainless Steel	



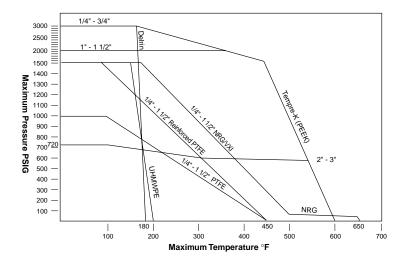
Item #	Description	Material
12	Belleville Washers	Stainless Steel
13	Packing Nut 1/4"-2"	Stainless Steel
13A	Packing Nut 21/2"-3"	Cad. Plate C. St Stainless Steel
14	Lock Tab	Stainless Steel
15	Handle Stop	Stainless Steel - Carbon Steel
16	Handle 1/4"-21/2"	Stainless Steel - Carbon Steel
17	Lock Washer	Stainless Steel
18	Handle Nut 1/4"-2"	Stainless Steel - Carbon Steel
19	Wrench Hub 21/2"-3"	Cad. Plate C. St Stainless Steel
20	Hub Bolt 21/2"-3"	Stainless Steel Cad. Plate C. St.
21	Wrench 21/2"-3"	Cad. Plate C. St.
22	Body Connector Bolt	Stainless Steel - Carbon Steel
23	Body Connector Nut	Stainless Steel - Carbon Steel
24	Stop Pin	Stainless Steel

PERFORMANCE DATA

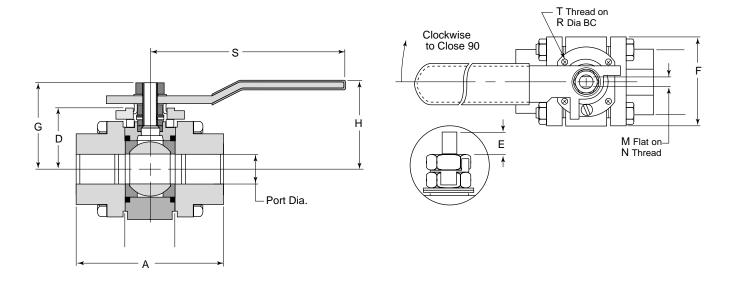
VALVE SIZE				
1/2"	12	5.5		
3/4"	32	3.0		
1″	57	3.1		
1-1/4"	80	3.9		
1-1/2"	104	7.5		
2"	240	5.0		
2-1/2"	320	7.0		
3″	580	9.5		

Due to continous development of our product range, we reserve the right to change the dimensions contained in this leaflet as required.

PRESSURE-TEMPERATURE DATA



B8 DIMENSIONS & WEIGHT 1/4" - 2"



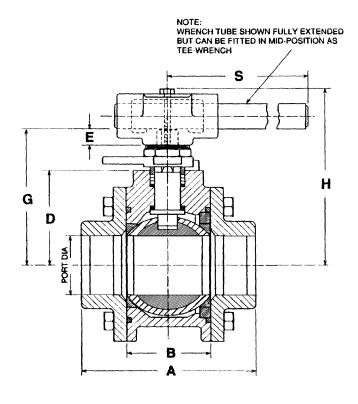
Size	Α	D	E	F	G	Н	М	N	R PCD	s	Т	PORT	WEIGHT lbs.
1/4"	2.60	1.080	0.24	1.81	1.50	1.81	0.218	0.368	1.417	4.49	M5	0.25	1.7
3/8"	2.60	1.080	0.24	1.81	1.50	1.81	0.218	0.368	1.417	4.49	M5	0.375	1.7
1/2"	2.80	1.24	0.24	2.05	1.59	1.87	0.218	0.368	1.417	4.49	M5	0.50	2.00
3/4"	3.70	1.504	0.29	2.45	2.19	2.40	0.298	0.432	1.653	5.75	M5	0.75	3.7
1"	4.25	1.465	0.32	2.68	2.38	2.60	0.298	0.432	1.653	5.75	M5	1.00	5.00
1-1/4"	4.57	1.713	0.29	3.15	2.87	3.15	0.343	0.554	1.969	7.00	M6	1.25	7.3
1-1/2"	5.04	1.870	0.31	3.55	3.07	3.31	0.343	0.554	1.969	7.00	M6	1.50	10.3
2"	5.96	2.125	0.33	4.25	3.37	3.37	0.343	0.554	1.969	11	M6	2.00	18.00

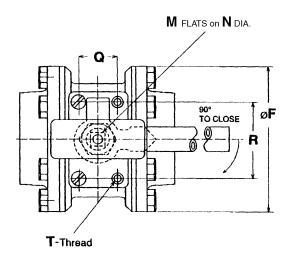
OPERATING TORQUE (lbf.in.) FOR B8 VALVES WITH TFE SEATS

Seat: TFE Line Pressure (psig)

Size	100	200	300	400	500	600	700	800	900	1000
1/4"	30	30	30	30	30	30	30	30	30	30
3/8"	30	30	30	30	30	30	30	30	30	30
1/2"	30	30	30	30	30	30	30	30	30	30
3/4"	50	50	50	60	60	60	60	60	60	60
1"	100	100	100	100	100	100	100	100	100	100
1-1/4"	150	150	150	150	150	200	200	200	200	200
1-1/2"	250	250	250	250	250	250	250	250	250	250
2"	275	325	375	400	500	500	500			
2-1/2"	400	500	600	700	800	800	800			
3"	800	900	1000	1000	1250	1250	1250			

B8 DIMENSIONS & WEIGHT 2 1/2"-3"





Valve Size	Port	Approx. Weight lbs.
2 1/2	2.50	30.0
3	3.00	50.3

Size	Α	В	D	E	F	G	Н	M	N	Q	R	S	T
2 1/2"	6.65	3.28	3.87	0.66	6.44	5.72	7.30	0.745	1"-14 UNS	1.75	3.37	13.8	M10
3"	8.41	4.28	4.49	0.66	7.97	6.34	7.92	0.745	1"-14 UNS	1.75	3.37	22.0	M10

B-SERIES VARIATIONS

The B-Series valve is available in a variety of body styles and pipe-end configurations. These include chlorine valves and steam/thermal fluid valves. For a complete listing of SVF products, contact your local SVF distributor.

GENERAL NOTES

- 1. Weld in-line valves B8 ball valves feature an encapsulated body seal. This design permits in-line welding without the need for field disassembly.
- 2. Virgin PTFE® supplied as standard. Other materials are supplied to order.
- 3. Stainless Steel Valves are fitted with stainless steel body bolts, nuts, gland nuts and handles as standard.
- 4. Delrin and UHMWPE are unsuitable for steam service.
- 5. Delrin is not suitable for oxygen service. Not available 2"-3".
- 6. PLEASE NOTE: All dimensions are taken to 2 decimal places. If more accurate measurements are required, please contact SVF. For mounting bracket dimensions contact SVF.

[®] Registered trademark of EI DUPONT

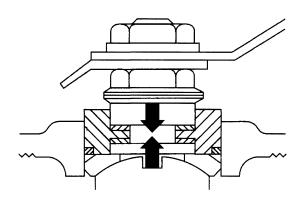
FEATURES & BENEFITS

FEATURES	BENEFITS
1. 3-Piece construction.	Enables valve to meet any pipe end requirements. Facilitates installation, eliminates unions. Maintains alignment while servicing. Provides easy internal access. Easily automated.
2. Lightweight & compact.	Saves weight, cost and envelope space.
3. Sealing package.	Downstream sealing guarantees tight shut-off, low torque.
4. Bottom entry stem.	Reduces chance of blowout, enhances safety.
Adjustable, self-compensating stem design.	Automatically adjusts for wear, temperature and pressure fluctuation.
6. Broad material selection.	Makes valve suitable to a wide range of applications.
7. Wide variety of options.	To customize to specific applications requirements.
8. Stainless pipe ends are 316 L grade.	Reduces intergranular corrosion in welding.
9. Stainless steel externals on 1/4" - 2" stainless valves.	Provides total corrosive protection, offers custom additional coast savings.
10. ISO mounting pad.	Allows for actuator mounting without interrupting integrity of valve. Interchangeability of valves.

The **B8 Series** incorporates all the above features & benefits and in addition offers:

11. Encapsulated body seal. B8 weld end valves have an encapsulated body seal which d disassembled prior to being welded in line.	oes not require the valve to be
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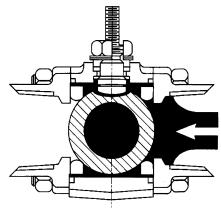
BOTTOM ENTRY STEM



The B8 offers a stem that is inserted from inside the body cavity, is adjustable and self containing.

Belleville washers compensate for expansion and contraction as well as wear. Trapped cavity pressure is relieved through a hole in the ball (open position) to prevent stem damage.

FLOATING BALL, DOWNSTREAM SEALING DESIGN



Valve shown in closed position, full pressure.

The B8 offers downstream sealing and bi-directional flow. This is obtained by allowing pressure to bypass the upstream seat through relief slots, and the ball being floated downstream to affect bubble - tight shut off.

This results in lower friction, less operating torque and longer valve life.

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AUTOMATED PRODUCTS

Three piece construction of the B8 Series readily lends itself to automation with either factory assembly or infield retrofit. All SVF actuators may be removed for inspection or repair without affecting valve integrity.







Pneumatic Actuators

- Double Acting
- Spring Return
- Solenoids
- Limit Switches
- Positioners 3-15 PSI
- Positioners 4-20 MA

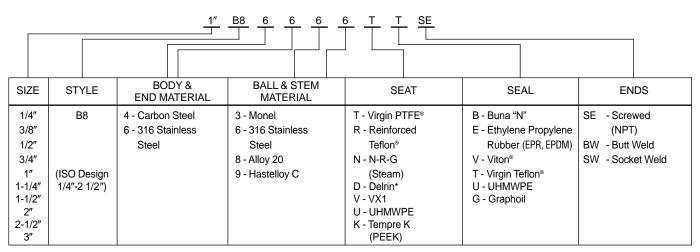
Electric Actuators

- 120 VAC
- 12/24 VDC
- NEMA 4/7
- Positioners 4-20 MA
- Reversing

Manual Valves

- Oval Handle
- Spring Return
- Stem Extensions
- Fusible Link
- Locking Device
- Gear Operators

HOW TO ORDER



^{*}Not available 2" - 3". Teflon® and Viton® are Registered Trademark of El Dupont. For Alloy 20-Brass and Hastalloy see R6/7 catalog.