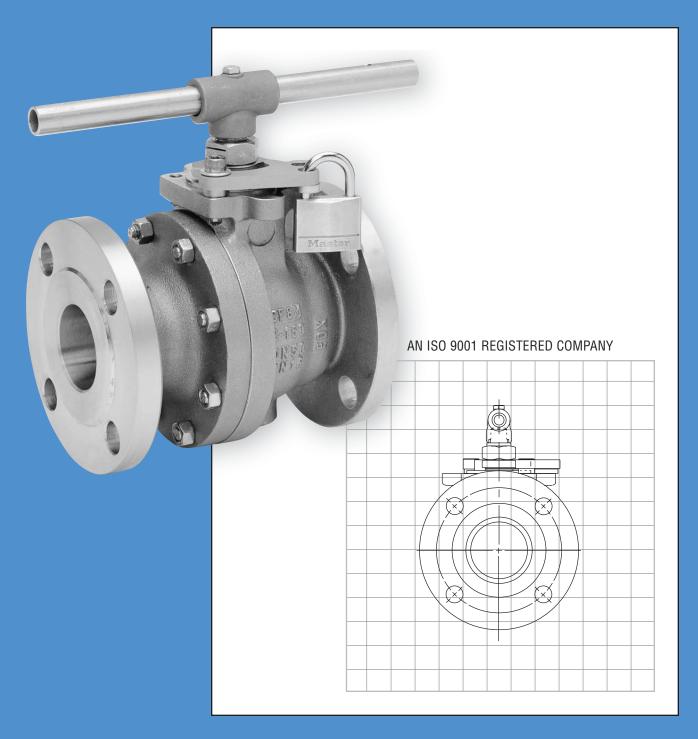


Worcester Control Valves

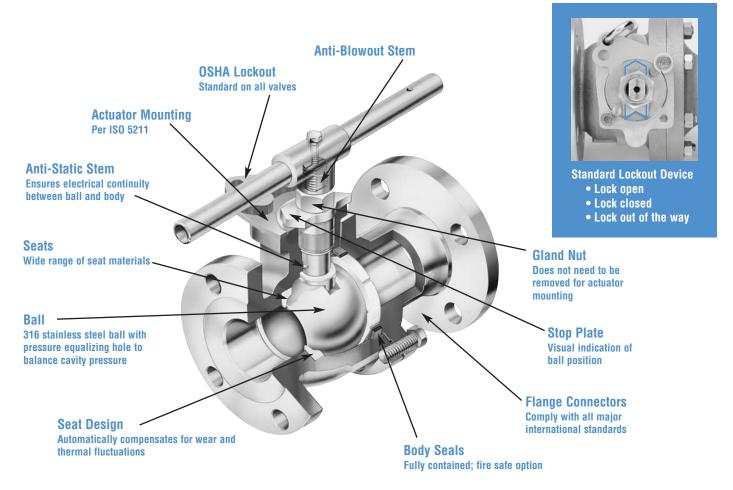
PB 800-2



Series 818/828 Full Bore Flanged Ball Valves



Worcester's all new full port ball valve features worldwide design standardization, fire-safety, OSHA lockout, ISO actuator mounting and best price and performance value.



Specifications

Sizes: 2", 3", 4", 6", 8"

Standard

Valve Model Series 818 ANSI Class 150 Numbers: Series 828 ANSI Class 300

Firesafe Series AF818 ANSI Class 150
Valve Model Series AF828 ANSI Class 300
Numbers: Series FZ818 (2" only)

Series FZ828 (2" only)

Body Carbon Steel **Materials:** Stainless Steel

Seats: TFE, Reinforced TFE, Polyfill®

Body Seal: TFE (Graphite on AF and FZ Firesafe Valves)

Stem Seals: Reinforced TFE (Graphite on AF and FZ Firesafe Valves)

Actuator

Mounting: ISO 5211

Standards: B16.34

ASME B16.10 face to face dimensions

ASME B16.5 150 lb. & 300 lb. flange dimensions API 6D Pipeline Valves. Specify V39 option

API 607 Ed. 4, BS6755

MSS SP6 flange finish (125-250 Ra)

NACE MR0175-95

BS5500 and ASME VIII bolt & pressure vessel codes

Certifications to above standards are available on

request. Specify when ordering.

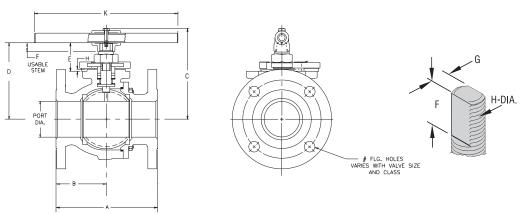
Valve Torque: Refer to full port valve torque values in Actuator

Sizing Manual (ASM).





Dimensions inches (mm)

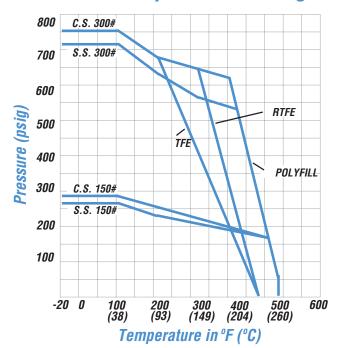


Valve	Weight lbs. (Kg)					
Size	818	828				
2"	55 (25.0)	65 (29.5)				
3"	75 (34.0)	100 (45.4)				
4"	110 (50.0)	150 (68.0)				
6"	210 (95.3)	275 (125)				
8"	375 (170)	525 (238)				

	818-ANSI Class 150 Ball Valves								828-ANSI Class 300 Ball Valves											
Valve Size	A	В	С	D	E	F Usable Stem	G	H	K	ISO MTG.	A	В	C	D	ш	F Usable Stem	G	H	K	ISO MTG.
2"	7.00 (178)	2.90 (73.7)	6.16 (157)	5.12 (130)	1.68 (42.7)	.70 (17.8)	.549 (13.9)	.787 (20.0)	10.00 (254)	F07	8.50 (216)	2.90 (73.7)	6.16 (157)	5.12 (130)	1.68 (42.7)	.70 (17.8)	.549 (13.9)	.787 (20.0)	10.00 (254)	F07
3"	8.00 (203)	3.68 (93.5)	7.89 (200)	6.37 (162)	1.96 (49.8)	.68 (17.3)	.592 (15.0)	.831 (21.1)	15.8 (401)	F07	11.1 (282)	3.68 (93.5)	8.41 (214)	6.85 (174)	2.15 (54.6)	.84 (21.3)	.758 (19.3)	1.07 (27.2)	24.0 (610)	F10
4"	9.00 (229)	4.61 (117)	9.23 (234)	7.67 (195)	2.15 (54.6)	.84 (21.3)	.758 (19.3)	1.07 (27.2)	24.0 (610)	F10	12.0 (305)	5.20 (132)	10.8 (274)	8.60 (218)	2.82 (71.6)	1.13 (28.7)	1.04 (26.4)	1.30 (33.0)	39.5 (1003)	F12
6"	15.5 (394)	7.03 (179)	12.2 (310)	9.98 (254)	2.82 (71.6)	1.13 (28.7)	1.04 (26.4)	1.30 (33.0)	39.5 (1003)	F12	15.9 (404)	7.03 (179)	12.8 (325)	10.6 (269)	2.99 (75.9)	1.17 (29.7)	1.19 (30.2)	1.49 (37.9)	39.5 (1003)	F14
8"	18.0 (457)	8.10 (206)		12.3 (313)	2.99 (76.0)	1.17 (29.7)	1.19 (30.2)	1.49 (37.9)	_	F14	16.5 (419)	8.10 (206)		13.5 (343)	3.42 (86.9)	1.42 (36.1)	1.35 (34.3)	1.67 (42.4)	_	F16

Worcester flanged valves are designed to conform to ASME B16.5-1996 standards. Selected dimensions from that publication are shown in brochure No. PB51 (Series 51/52 Valves) and Engineering Data Sheet ED-2.

Pressure/Temperature Rating



Flow Coefficient - Cv

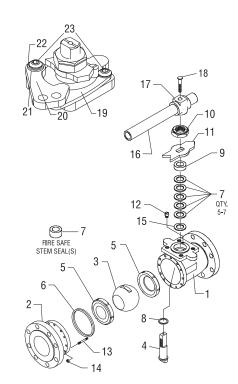
Valve Size	Port Size inches (mm)	C _v			
2"	2.00 (50.8)	501			
3"	3.00 (76.2)	1,158			
4"	4.00 (102)	2,118			
6"	6.00 (152)	5,047			
8"	8.00 (204)	9,337			



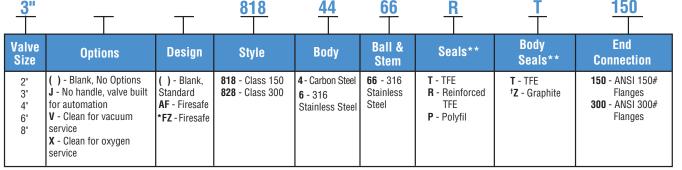


Parts/Materials

No.	Part Name	Materials	No.	Part Name	Materials			
1	Body	Carbon Steel ASTM-A216 WCB Stainless Steel ASTM-A351 CF8M		Body Studs	Carbon Steel ASTM-A193 GR. B7, Black Oxide Coated			
2	End Connector	Carbon Steel ASTM-A216 WCB Stainless Steel ASTM-A351 CF8M			Stainless Steel ASTM-A193 GR. B8 Carbon Steel ASTM-A194-GR. 2H.			
3	Ball	Stainless Steel ASTM-A351 CF8M or ASTM A479-316, Cond. A	14	Body Nuts	Zinc Plated Stainless Steel ASTM-A194 GR. 8			
4	Stem	Stainless Steel ASTM-A479-316 Condition A	15	Centering Washer	Stainless Steel AISI 316			
5	Seat	TFE, Reinforced TFE, Polyfill		Wrench	Carbon Steel ASTM-A53, Galvanized			
6	Body Seal	TFE, Z (Graphite) seal used on AF & FZ valves Reinforced TFE, Graphite on AF & FZ valves		Extension	Stainless Steel ASTM-A312, 300 Series			
7	Stem Seals			Wrench Block	Stainless Steel ASTM-A743-CF8			
8	Thrust Bearing	Reinforced TFE, Graphite on AF & FZ valves	18	Hex Head Bolt	Stainless Steel AISI 300 Series			
9	Follower	Stainless Steel ASTM-A276-316 Condition A or A269-300		Fixed Lockplate	Stainless Steel AISI 300 Series			
10	Retaining Nut	Carbon Steel, Zinc Plated Stainless Steel AISI 303, Zinc Plated		Moving Lockplate	Stainless Steel ASTM-A743-CF8 (304)			
\vdash		Stainless Steel, 300 Series		Lock Spacer	Stainless Steel AISI 300 Series			
11	Stop			Washer	Stainless Steel AISI 300 Series			
12	Stop Screw	Stainless Steel ASTM-A276, 300 Series		Button Head Screw	Stainless Steel AISI 300 Series			



How To Order



^{* 2&}quot; valves only.

Note: Standard Worcester Valves are assembled with silicon based break in Jubricant. For other options, consult your distributor.

Ordering Example: A 3" Series 818 full port flanged valve with carbon steel body, 316 stainless steel ball and stem, reinforced TFE seats, TFE body seal, ANSI Class 150 flanges and manual lever or handle.

Caution: Ball valves can retain pressurized media in the body cavity when closed. Use care when disassembling. Always open valve to relieve pressure prior to disassembly.

Due to continuous development of our product range, we reserve the right to alter the product specifications contained in this brochure, as required.

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FLOWSERVE CORPORATION FLOW CONTROL DIVISION

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^{**} Use only one letter if body seal is same material as seat.

[†] AF and FZ Fire safe valves only available with Z body seals.