

Worcester Controls Series 608 Ball Valve



Experience In Motion



Introducing a new 3-piece ball valve for services requiring API 608, such as downstream refiners and chemical companies. The design incorporates the stem design requirements of API 608 including torsional strength requirements.

Coupled with the superior Worcester seat design and a positive stem seal design, you are assured of high performance, high cycle life and excellent durability.

Additional options include API 607 4th edition fire safety, NACE compliance, metal seating options and multiple end connections. The valve is fully tested to API 598.

Lockout Device

Standard on all manual valves.

Gland Nut

Along with belleville washers adjusts packing pressure to compensate for normal wear and temperature fluctuations.

Stem

Large Diameter 17-4PH blowout-proof stem standard on both carbon steel and stainless steel valves.

Ball

Super smooth finish for low torque and long seat life. CF8M/316SS is standard for both carbon steel and stainless steel valves.

Stem And Body

Are continuously grounded to eliminate static discharge.

Body Gasket

PTFE standard. Grafoil® used for fire-sealed applications.

Seats

PTFE, Polyfill, High-Per Fill and Metal A and G seat options.

® Grafoil is a registered trademark of Union Carbide Corporation



Positive stem seal even after extended cycles

- · Multi-element PTFE stem seals for unsurpassed seal life and cyclability
- · Smooth stem finish reduces torque and increases stem seal life
- Glass filled PTFE thrust washer aids sealing while reducing torque
- Belleville springs maintain constant load on stem seals for high cycle life
- Stainless gland nut maintains packing compression through maximum operating temperature
- Double "D" stem positively indicates open or shut position

Variation (V-Numbered Options)

- V 3 Upstream Relief Hole
- V 6 Source Inspection
- V 20 Oxygen Service $(\frac{1}{2}^{"} - 2^{"})$
- V 33 Oxygen Service w/o source Inspect. $(\frac{1}{2}" - 2")$
- V 36 Certificate of Compliance
- V 37 Certificate of Compliance & Hydro
- Testing V 46 Silicone Free Lubricant
- V 58
 - B16.34 Compliance
- V 66 Certificate of Compliance for **European Valve Orders**

Worcester Controls Ball Valve 3-Piece Design, ANSI Class 600

1/2 in (15mm) - 2 in (50mm)



ltom	Part	Valve Alloy			
No.	Description	Stainless Steel	Carbon-Stainless Steel		
1	Body	ASTM A182 Type 316 (FORGED)	ASTM A105 (FORGED) ASTM A350 LF2 (FORGED)		
2	Pipe End	ASTM A182 Type 316 ASTM A105 (FORGED) ASTM A350 LF2 (FORGED			
3	Ball	ASTM A479-316 COND. A or ASTM A351 GR. CF8M ASTM A351 GR. CF8M			
4	Seat	High-Per-Fill	High-Per-Fill		
		Polyfill	Polyfill		
		Metal-G	Metal-G		
5	Body Seal	Polytetrafluoroethylene – PTFE	Polytetrafluoroethylene - PTFE		
		Grafoil (Firesafe Applications)	Grafoil (Firesafe Applications)		
6	Body Bolt	ASTM A193 Gr. B8 CLASS 2	ASTM A193 GR. B7		
7	Body Nut	ASTM A194 GR. 8	ASTM A194 GR. 2H		
8	Stem	ASTM B564 H1150 (17-4PH SS)	ASTM B564 H1150 (17-4PH SS)		
9	Stem Washer	Glass-Filled Polytetrafluoroethylene- GFPTFE	Glass-Filled Polytetrafluoroethylene- GFPTFE		
10	Stem Seal	Polytetrafluoroethylene - PTFE	Polytetrafluoroethylene - PTFE		
		Grafoil (Firesafe Applications)	Grafoil (Firesafe Applications)		
11	Gland	SS 304	SS 304		
12	Gland Nut	SS 304	SS 304		
12B	Lever Nut	SS 304	Steel Plated		
13	Lever	Stainless Steel	Stainless Steel		
14	Antistatic Body Spring	SS 304	SS 304		
17	Spring Disc	SS 304	EN 42 J		
18	Lock Strip	SS 304	SS 304		
20	Locking Plate	SS 304	SS 304		



Ratings for Polyfill, RTFE, UHMWPE and TFE Seats





How to Order

/	<u>_1¼"</u>		<u> </u>	<u>66</u>	<u>66</u>	Щ	SW	**
Valve Size	Options	Port Options	Product Series	Body, Pipe Ends	Ball, Stem	Seat	Body Seal	Ends
14" 3/8" 1⁄2" 34" 1" 114" 11⁄2" 2"	Blank – Built with lever handle E – No handle valve built for automation Z – API 607 Firesafe	F – Full R – Reduced	608	4 – Carbon Steel 6 – 316 S.S. L – LF2	6 – 316 SS Ball 17 – 4 Stem	T – TFE R – Reinforced TFE P – Polyfill X – High-Per Fill A – Metal A G – Metal G Use only one lett to be some mate	T – TFE G – Graphite- coated S-gasket M – Teflon- coated S-gasket	SE – Screwed Pipe Ends (NPT) Butt Weld ends: BW4 – Carbon Steel, Sch. 40 BW4 – Stainless Steel, Sch. 40 SW – Socket Weld Ends

**Variations (V-Numbered Options) see page 3 for listing. Leave blank if no variations.

Full ANSI B16.34 compliance requires a hydrotest and certified material test reports. Add V58 to ordering code if full B16.34 compliance is required.

Ordering Example (shown above): 1-1/4" Series 608 Full-Port valve with 316 S.S. body, ball and 17-4 PH stem, TFE seats and seals, and socket weld ends.

Polyfill® is a registered trademark of Flowserve Corporation.

High-Per Fill® is a registered trademark of Flowserve Corporation.

▲ **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 dimensions

and information contained in this leaflet as required.



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