

Series AW44 High Temperature 3-Piece Ball Valve

In the AW44, Flowserve Worcester has recognised the need for a 3-piece ball valve specifically designed for the isolation of steam. With energy costs already high and still rising, the AW44 has proved itself to be cost effective in minimising the loss of process steam.

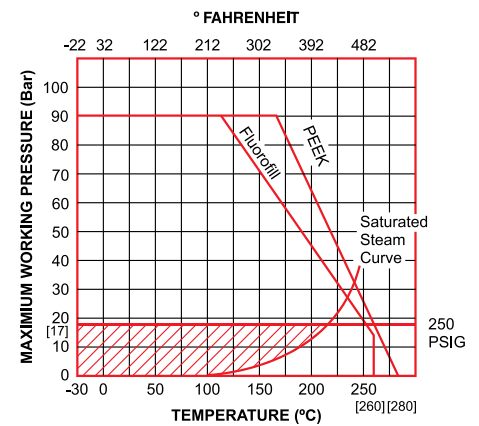
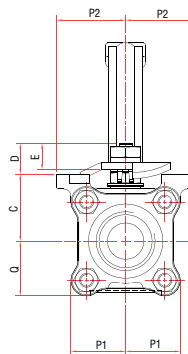
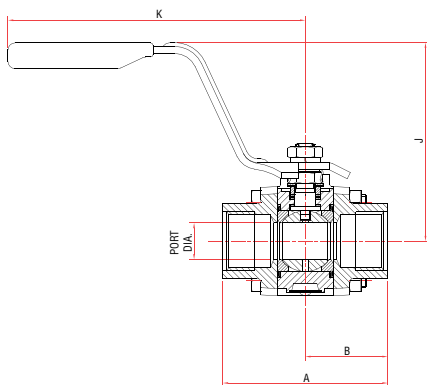
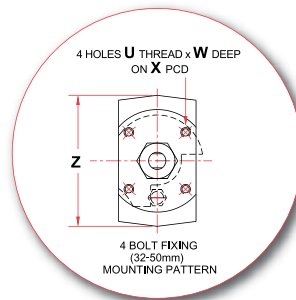
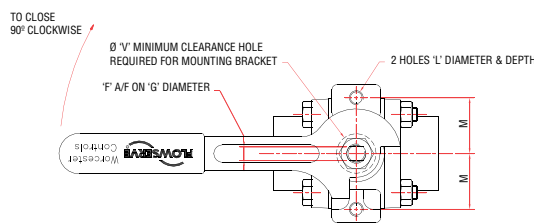
Using its unique Fluorofill seat material, Worcester guarantees the AW44 on continuous saturated steam service up to 250 psi. (17 bar) whilst other Worcester high performance seat materials provide even higher temperature/pressure capabilities. In addition to its proven record with steam as a heat transfer medium, the AW44 can accommodate other thermal fluids/hot oils up to 250°C (Fluorofill), or up to 280°C where required with other seat materials.

The AW44 features a mounting platform on the body for ease of ancillary mounting while retaining valve integrity. For these demanding duties, Worcester incorporates its unique PTFE-coated metal body seal which maintains its sealing capability during thermal cycling.

Available in sizes 8-50 mm, the AW44 is manufactured in carbon steel and stainless steel with a range of end connections.



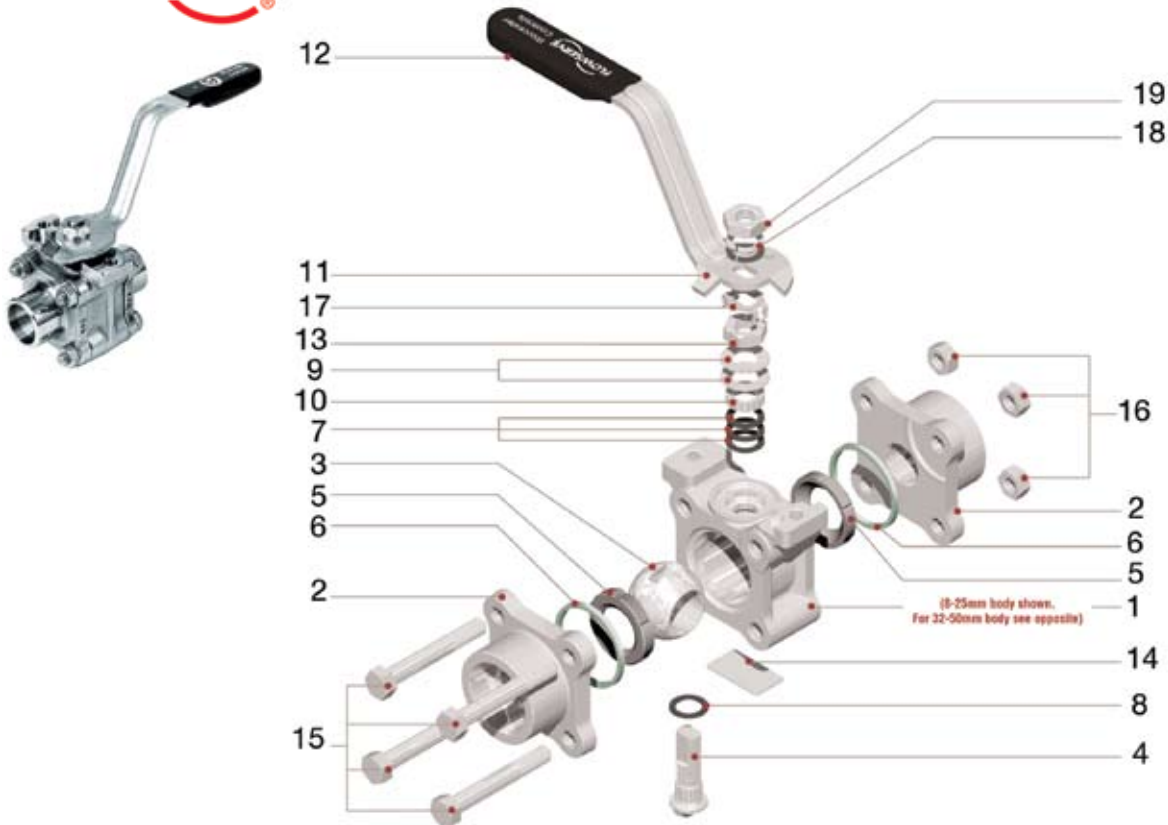
FLOWERVE



Valve Size	Port Dia	A	B	C	D	E	Stem				L Thread & Depth				Mounting Platform (BS EN ISO 5211) ISO Mounting Holes Platform Recess				kg	
		A	B	C	D	E	F A/F	G Thread	J	L	M	P1	P2	Q	ØV	Size				
8, 10, 15	10.9	66.25	32.69	26.7	11.68	10.69	5.54	3/8"-24	97.9	156.0	M6 x 1.0p	24.0	23.8	30.4	23.8	19.5	-	-	-	0.7
		64.52		26.5	11.04	10.19	5.46	UNF			9.5 MIN.									
20	14.0	71.81	35.48	29.1	11.68	10.69	5.54	3/8"-24	100.3	156.0	M6 x 1.0p	27.0	27.2	33.4	27.2	19.5	-	-	-	0.9
		70.09		28.9	11.04	10.19	5.46	UNF			9.5 MIN.									
25	20.4	94.55	46.84	38.1	17.94	15.19	7.54	7/16"-20	112.8	169.0	M8 x 1.25p	31.75	32.7	40.5	32.7	22.5	-	-	-	1.6
		92.82		37.9	17.16	14.69	7.47	UNF			9.7 MIN.									
32	25.1	106.90	53.02	37.10	23.74	15.19	15.19	7/16"-20	17.6	169.0	M5 x 0.8p	19.5	36.3	-	36.3	22.5	F04	4 OFF M5 x 0.8p X 7.5 DEEP MIN. ON 42.0 P.C.D.	Ø 30.15 / 30.02 x 4.29 / 3.52 DEEP	2.2
		105.17		36.85	22.91	14.69	14.69	UNF			6.0 MIN.									
40	31.3	115.41	57.28	44.00	29.55	18.39	18.39	9/16"-18	128.9	193.0	M6 x 1.0p	23.0	42.3	-	42.3	29.5	F05	4 OFF M6 x 1.0p X 8.7 DEEP MIN. ON 50.0 P.C.D.	Ø 35.15 / 35.02 x 4.01 / 3.26 DEEP	3.2
		113.69		43.75	28.73	17.89	17.89	UNF			7.5 MIN.									
50	37.7	127.94	63.54	48.75	29.55	18.39	18.39	9/16"-18	133.6	193.0	M6 x 1.0p	23.0	47.4	-	47.4	29.5	F05	4 OFF M6 x 1.0p X 8.7 DEEP MIN. ON 50.0 P.C.D.	Ø 35.15 / 35.02 x 4.01 / 3.26 DEEP	4.3
		126.21		48.50	28.73	17.89	17.89	UNF			8.7 MIN.									



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Materials

1.	Body	Carbon Steel ASTM A216WCB Stainless Steel ASTM A351 CF8M UNS J92900
2.	Body	Connector Carbon Steel ASTM A216WCB / A105 Stainless Steel ASTM A351 CF8M
3.	Ball	(See Note 7) Stainless Steel ASTM A351 CF8M UNS J92900
4.	Stem	Stainless Steel AISI Type 316
5.*	Seat Ring	(See Note 5) Fluorofill / PEEK
6.*	Body Connector Seal	Stainless Steel PTFE Coated
7.*	Gland Packing	PTFE 35% Carbon Filled
8.*	Stem Thrust Seal	PTFE 35% Carbon Filled
9.*	Disc Spring	Stainless Steel
10.	Gland	Stainless Steel 316
11.	Wrench	Carbon Steel Rustproofed / Stainless Steel 304
12.	Wrench Sleeve	Vinyl Plastisol
13.	Gland Nut	Stainless Steel 316
14.	Identification Plate	Stainless Steel 304
15.	Body Connector Bolt	Carbon Steel BS3692 Gr. 8.8 / Stainless Steel B6105/ISO 3506 A40-80
16.	Body Connector Nut	Carbon Steel BS3692 Gr. 8.8 / Stainless Steel B6105/ISO 3506 A40-80
17.	Gland Nut Locking Clip	Coated Spring Steel
18.	Spring Washer	Stainless Steel 316
19.	Wrench Nut	Stainless Steel 316

Notes

1. Screwed butt weld and socket weld end variations are available
2. Limiting stem input torque figures are based on random practical laboratory tests. For critical applications where a guaranteed figure is essential consult Worcester Controls.
3. When wrench not fitted flats on stem, when parallel to pipeline axis, denote ball open.
4. All weld end valves are assembled with Buna 'O' ring body connector seals with body seals attached loose. This provides for the valve to be tested by Worcester Controls, disassembled by the customer to weld in line, and reassembled. Instructions will be supplied for fitting body seals.
5. Other seat variations are available.
6. All valves have stainless steel trim as standard.
7. Installation. Operating and Maintenance Instructions are available on request.
8. Specially prepared versions of this valve are available which comply to NACE-MR-O1-75.