

ASME 600 / 900 / 1500 Limited Class

Applications

Boiler drains
Feedwater drains
Steam drum vents
Isolation valve for bypass lines
Economizer header drains

End Connections

Socketweld
Buttweld
Flanged¹

Sizes

1/2 to 3/4 inch

¹ Available Upon Request

Features

Ball and Seats

- Mate-lapped for 100% contact
- Ensures absolute shutoff
- Corrosion resistant
- Seats are protected from flow in open / closed position

Stem & Packing Arrangement

- Live Loading
- Quarter-turn non-rising stem does not deteriorate packing
- Extensive stuffing box
- Dual anti-extrusion rings keep packing in place

Mechanical Precision Stop

- Prevents turning ball 180°
- Eliminates misalignment

Rigid Mounting Bracket

- Designed to support actuator in any position

Seat Spring

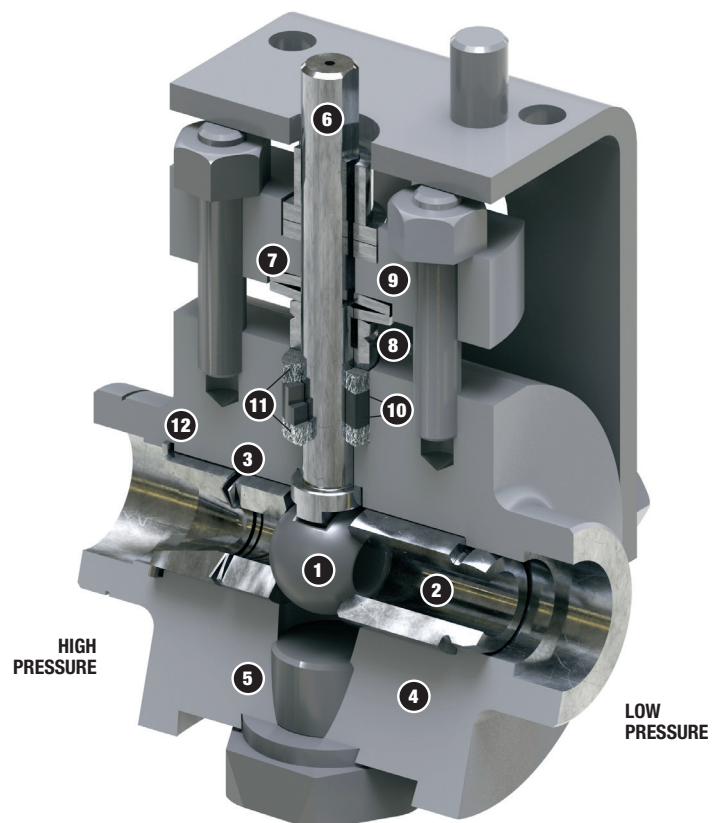
- Assisted by line pressure, provides a constant mechanical force on ball against seat to maintain seal

Bill of Materials

Item No.	Description	Material
1	Ball	410SS / CC Coated
2	Seat	410SS / CC Coated
3	Spring	Inconel 718
4	Body	A182 F22 A105 A182 F91
5	Gasket	316 / Grafoil
6	Stem	A638 Gr660
7	Live Loading	Inconel 718
8	Gland Thruster	316 Nitrided
9	Gland Flange	410SS
10	Stem Packing	Expanded Graphite
11	Anti-Extrusion Rings	Braided Graphite w/ Inconel Wires
12	Retaining Ring	A638-660

SS = Stainless Steel
CC = Chromium Carbide

- **Standard four-year warranty; one-year warranty on high-cycle applications (1 cycle per day, 365 days per year)**

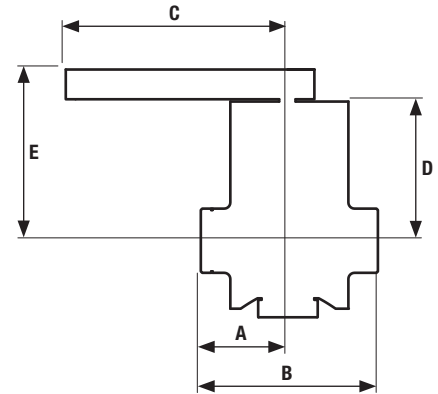


Small in Size — Large in Performance

Designed for Small, but Critical Applications

In power generation systems there are several severe service applications which require a small bore and/or light weight drain, vent or isolation valve. Many of the standard commodity choices such as globes cannot handle absolute tight shutoff for these small bore, high pressure, and high temperature installations, and normal metal-seated ball valves weigh too much. MOGAS offers a real workhorse for the small, but critical applications.

Dimensions (in)							
Model	Bore	A	B	C	D	E	Weight
RSVP-UK	0.38	1.85	3.75	6.44	3.47	N/A	7 lb
Dimensions (mm)							
Model	Bore	A	B	C	D	E	Weight
RSVP-UK	10	47	95	164	88	N/A	3 Kg



Cv				
Bore (inches)	Pipe Size (inches) / Schedule			
	1/2 Sch 160	1/2 Sch XXS	3/4 Sch 160	3/4 Sch XXS
0.38	40	19	18	36

Temperature vs Pressure — Limited Class Ratings

Class	Mat'l.	Temperature (°F)															
		-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100
ASME 600 Maximum Pressure (psig)	F22 ²	1500	1500	1480	1455	1450	1440	1430	1415	1415	1415	1355	1200	953	688	447	282
	A105 ³	1500	1500	1480	1465	1465	1465	1430	1380	1270	1030	—	—	—	—	—	—
	F91	1500	1500	1500	1500	1500	1500	1500	1465	1460	1440	1355	1200	953	862	862	765
ASME 900 Maximum Pressure (psig)	F22 ²	2250	2250	2220	2185	2175	2165	2145	2120	2120	2120	2030	1800	1433	1045	681	426
	A105 ³	2250	2250	2220	2200	2200	2200	2145	2075	1905	1545	—	—	—	—	—	—
	F91	2250	2250	2250	2250	2250	2250	2250	2200	2185	2160	2030	1800	1433	1311	1311	1165
ASME 1500 Maximum Pressure (psig)	F22 ²	3750	3750	3695	3640	3620	3605	3580	3535	3535	3535	3385	3000	2412	1785	1170	732
	A105 ³	3750	3750	3700	3665	3665	3665	3575	3455	3170	2570	—	—	—	—	—	—
	F91	3750	3750	3750	3750	3750	3750	3750	3665	3645	3600	3385	3000	2412	2250	2250	1993
Class	Mat'l.	Temperature (°C)															
		-29 to 38	50	100	150	200	250	300	325	350	375	400	425	450	475	500	538
ASME 600 Maximum Pressure (barg)	F22 ²	103	103	103	102	100	100	100	99	98	98	98	98	94	86	72	48
	A105 ³	103	103	103	102	101	101	101	100	98	94	87	72	—	—	—	—
	F91	103	103	103	103	103	103	103	103	103	101	101	99	94	86	72	62
ASME 900 Maximum Pressure (barg)	F22 ²	155	155	155	153	151	150	149	149	148	146	146	146	141	128	107	73
	A105 ³	155	155	155	153	152	152	150	147	141	130	108	—	—	—	—	—
	F91	155	155	155	155	155	155	155	155	154	152	151	149	141	128	107	94
ASME 1500 Maximum Pressure (barg)	F22 ²	259	259	258	255	251	250	249	248	246	244	244	244	236	214	179	125
	A105 ³	259	259	259	255	253	253	251	245	236	217	180	—	—	—	—	—
	F91	259	259	259	259	259	259	259	259	257	253	251	248	236	214	179	161

² F22 not recommended for prolonged use above 1100°F / 593°C per ASME B16.34.

³ A105 not recommended for prolonged use above 800°F / 427°C per ASME B16.34.