RSVP

DATA SHEET

ASME 600 / 900 / 1500 Limited Class

In Stock — Available For Immediate Delivery

Applications

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

End Connections

Socketweld
Buttweld
Flanged[1]

Sizes

3/4 to 2-1/2 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
- *Inconel 718 Spray & Fused CC upgrade available to provide additional resistance to corrosion*[1]

Mechanical Precision Stop

- Prevents turning ball 180°
- Eliminates misalignment

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

Rigid Mounting Bracket

- Designed to support actuator in any position

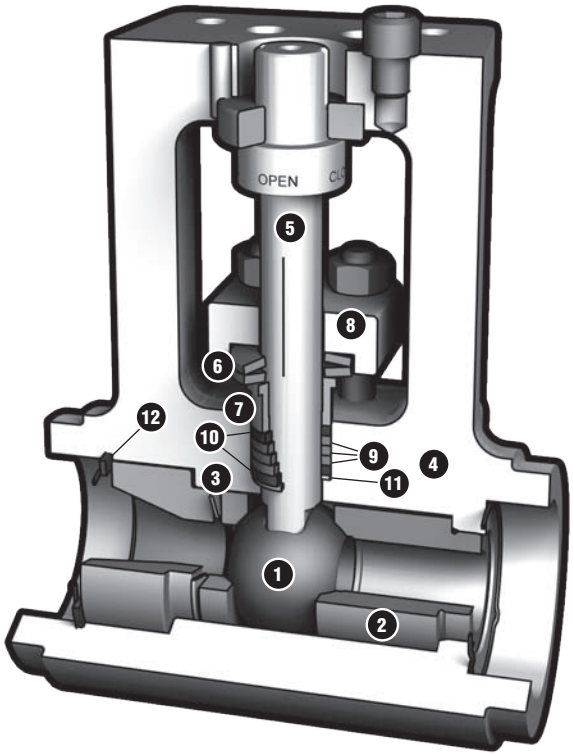
Seat Spring

- 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 / HVOF-CC Coated or Inconel 718 / Spray & Fused CC Coated[1]
2	Seat	410SS / HVOF-CC Coated or Inconel 718 / Spray & Fused CC Coated[1]
3	Spring	Inconel 718
4	Body	A182 F22 A105 A182 F91
5	Stem	A276 GR431 Nitrided
6	Live Loading	Inconel 718
7	Gland Thruster	316 Nitrided
8	Gland Flange	410SS
9	Stem Packing	Expanded Graphite
10	Anti-Extrusion Rings	Braided Graphite w/ Inconel Wires
11	Metal Anti-Extrusion Ring	316SS
12	Retaining Ring	A638 660

- **Standard four-year warranty**
- **Patent pending**



14330 East Hardy Street Houston, TX, USA 77039-1405 **www.mogas.com**
ph +1.281.449.0291 **fax** +1.281.590.3412 **email** mogas@mogas.com

MOGAS®
SEVERE SERVICE BALL VALVES

RSVP

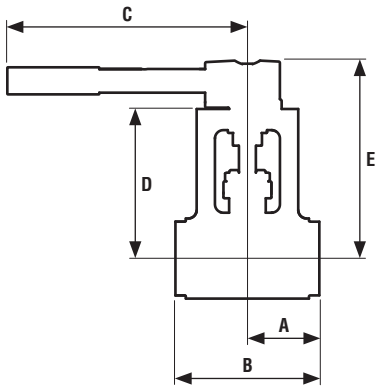
Optimized for Power

Dimensions[2] (in)

Model	Bore	SW End	A	B	C	D	E	Weight
RSVP-UC	0.63	3/4	3.95	6.47	9.79	5.03	6.50	15 lb
		1, 1-1/2	2.49	5.00	9.79	5.03	6.50	15 lb
RSVP-UF	1.00	1-1/2, 2	3.17	6.38	21.56	6.63	8.80	32 lb
RSVP-UL	1.30	2	3.51	7.5	22.38	7.63	10.12	54 lb
		2-1/2	3.75	7.5	22.38	7.63	10.12	53 lb
RSVP-UM[3]	1.50	2	5.59	9.59	—	7.63	—	61 lb
		2-1/2	3.88	7.75	—	7.63	—	58 lb

Dimensions[2] (mm)

Model	Bore	SW (DN)	A	B	C	D	E	Weight
RSVP-UC	16	20	100	164	249	128	165	7 Kg
		25, 40	63	127	249	128	165	7 Kg
RSVP-UF	25	40, 50	81	162	548	168	224	15 Kg
RSVP-UL	33	50	89	191	568	194	257	24 Kg
		65	95	191	568	194	257	24 Kg
RSVP-UM[3]	38	50	142	244	—	194	—	28 Kg
		65	99	197	—	194	—	26 Kg



[2]Consult factory for F91 dimensions.

[3]RSVP-UM is designed to meet ASME TDP-1 1998 full-bore and reliability requirements, and is a non-standard stock item.

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[4]**	1500	1500	1480	1455	1450	1440	1430	1415	1415	1415	1355	1200	953	688	446	282
	A105[5]	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	775
ASME 900 Maximum Pressure (psig)	**F22[4]**	2250	2250	2220	2185	2175	2165	2145	2120	2120	2120	2030	1800	1433	1045	681	426
	A105[5]	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	1175
ASME 1500 Maximum Pressure (psig)	**F22[4]**	3750	3750	3695	3640	3620	3605	3580	3535	3535	3535	3385	3000	2412	1785	1170	732
	A105[5]	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	2015

Class	Mat'l.	Temperature (°C)																			
		-29 to 38	50	100	150	200	250	300	325	350	375	400	425	450	475	500	538	550	575	600
ASME 600 Maximum Pressure (barg)	**F22[4]**	103	103	103	102	100	100	100	99	98	98	98	98	94	86	72	47	40	27	18
	A105[5]	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	95	86	72	59	59	59	50
ASME 900 Maximum Pressure (barg)	**F22[4]**	155	155	155	153	151	150	149	149	148	146	146	146	141	128	109	72	61	41	27
	A105[5]	155	155	155	153	152	152	152	150	147	141	130	108	—	—	—	—	—	—	—
	F91	155	155	155	155	155	155	155	155	154	152	151	149	143	128	109	90	90	89	76
ASME 1500 Maximum Pressure (barg)	**F22[4]**	259	259	258	255	251	250	249	248	246	244	244	244	236	214	183	123	104	70	46
	A105[5]	259	259	259	255	253	253	253	251	245	236	217	180	—	—	—	—	—	—	—
	F91	259	259	259	259	259	259	259	259	257	253	251	248	241	214	183	155	155	153	130

[4]F22 not recommended for prolonged use above 1100°F / 593°C per ASME B16.34.
[5]A105 not recommended for prolonged use above 800°F / 427°C per ASME B16.34.

Cv

Bore (inches)	Pipe Size (inches) / Schedule									
	3/4 Sch 160	**3/4** Sch XXS	**1** Sch 160	**1** Sch XXS	**1-1/2** Sch 160	**1-1/2** Sch XXS	**2** Sch 160	**2** Sch XXS	**2-1/2** Sch 160	**2-1/2** Sch XXS
0.63	40	19	18	38	11	13	—	—	—	—
1.00	—	—	—	—	43	70	33	37	—	—
1.30	—	—	—	—	—	—	90	117	66	82
1.50	—	—	—	—	—	—	144	242	103	145