

### Applications

Boiler drains  
 Turbine drains  
 Above and below seat drains  
 Feedwater drains  
 Steam drum vents  
 Superheater vents and drains  
 Sootblower isolation  
 Isolation valve for bypass lines  
 Economizer header drains

### End Connections

Socketweld  
 Buttweld  
 Flanged<sup>1</sup>

### Sizes

3/4 to 2-1/2 inch

### Features

#### Inconel 718 Ball and Seats

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

#### Spray and Fused Chromium Carbide Coating Advantages

- Withstands thermal shock
- Handles high cycling applications
- High strain to fracture
- Maintains strength of base metal
- Erosion resistant

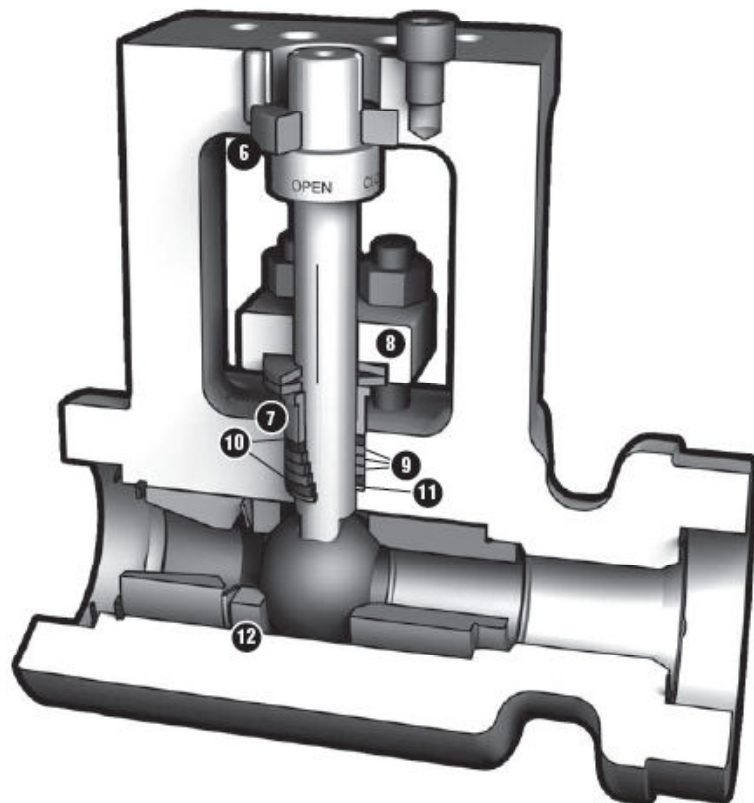
#### Rigid Mounting Bracket

- Designed to support actuator in any position

### Bill of Materials

Item No.	Description	Material
1	Ball	Inconel 718 / Spray & Fused CC Coated
2	Seat	Inconel 718 / Spray & Fused CC Coated
3	Spring	Inconel 718
4	Body	A182 F22 A105 A182 F91
5	Stem	431SS Nitrided
6	Stem Bushing	431SS / Melonite and Xylan Coated
7	Gland Thruster	431SS / Melonite and Xylan Coated
8	Gland Flange	431SS / Nitrided
9	Stem Packing	Expanded Graphite
10	Anti-Extrusion Rings	Braided Graphite w/ Inconel Wires
11	Metal Anti-Extrusion Ring	316SS
12	Pusher Seat	431SS / Nitrided

- Integral vented body design allows installation per ASME B31.1 PWHT requirements
- Standard four-year warranty
- Patent pending

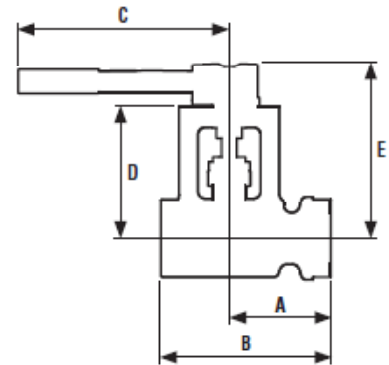


## Withstands Severe Temperature Shocks

Dimensions (in)								
Model	Bore	SW End	A	B	C	D	E	Weight
RSVP-UC	0.63	3/4	4.12	8.37	11.75	6.00	7.78	24 lb
		1, 1-1/2	2.88	7.13	11.75	6.00	7.78	24 lb
RSVP-UF	1.00	1-1/2, 2	3.42	8.50	21.56	6.63	8.80	43 lb
RSVP-UL	1.30	2, 2-1/2	3.75	7.50	22.38	7.63	10.12	66 lb

Dimensions (mm)								
Model	Bore	SW (DN)	A	B	C	D	E	Weight
RSVP-UC	16	20	105	213	298	152	198	11 Kg
		25, 40	73	181	298	152	198	11 Kg
RSVP-UF	25	40, 50	87	216	548	168	224	20 Kg
RSVP-UL	33	50, 65	95	191	568	194	257	30 Kg



Cv								
Bore (inches)	Pipe Size (inches) / Schedule							
	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	24	32	16	18	—	—	—	—
1.00	—	—	55	67	43	46	—	—
1.30	—	—	—	—	103	118	77	89

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 3100 Maximum Pressure (psig)	F22 <sup>2</sup>	7750	7750	7639	7520	7484	7452	7396	7308	7308	7308	7000	6200	5098	3983	2604	1635
	A105 <sup>3</sup>	7750	7750	1480	7651	7572	7572	7572	7391	7142	6554	5314	—	—	—	—	—
	F91	7750	7750	7750	7750	7750	7750	7750	7750	7576	7528	7440	7000	6200	5098	5013	5013

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 3100 Maximum Pressure (barg)	F22 <sup>2</sup>	534	534	533	527	519	517	514	513	508	504	504	504	488	442	386	275	233	157	103
	A105 <sup>3</sup>	534	534	534	527	523	522	522	518	505	487	449	372	—	—	—	—	—	—	—
	F91	534	534	534	534	534	534	534	534	534	531	522	519	513	510	442	386	346	346	341

<sup>2</sup>F22 not recommended for prolonged use above 1100°F / 593°C per ASME B16.34.  
<sup>3</sup>A105 not recommended for prolonged use above 800°F / 427°C per ASME B16.34.



Wall of MOGAS RSVP valves for main steam drain have outperformed the original globe valves. Exposed to 950°F at 1875 psi (510°C at 129 bar) while online, it is critical that these valves operate and seal dependably.