

TYPE 2600 SAFETY RELIEF VALVE

The Type 2600 Relief/Safety Relief valves are designed to have a short 'simmer', then to open rapidly to the full open position, and to re-seat at a controlled pressure. When the valve is in its fully lifted position, the discharge area is controlled by the bore of the nozzle, which ensures that flow calculations for various mediums can be reliably made.

Valves are supplied in sizes ½" to 1" and can be manufactured in Gunmetal, Cast Steel and Stainless Steel with ends screwed male x female, female x female or flanged to customers requirements.

Valves can also be supplied with a packed lever lifting device, limit switch to indicate opening and closing of the valve, governing ring to limit adjustment of the spring to the set point, for ease of re-setting.

Installation

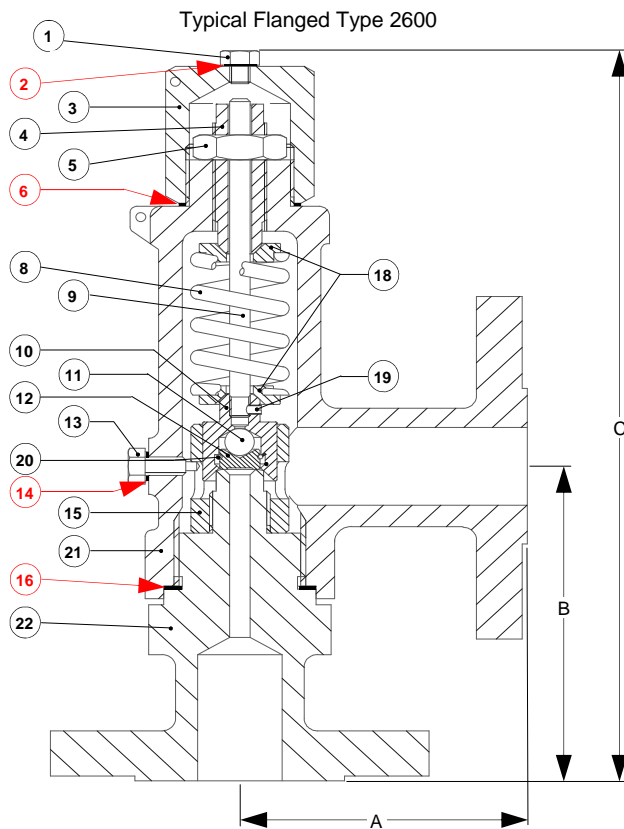
During installation of the valve avoid bumping or shaking to prevent damaging the flange faces and misalignment of the trim. Blow through the circuit line on which the valve is to be installed, this is to remove any foreign bodies. Clean the valve and nozzle connections thoroughly; foreign bodies on the nozzle may damage the valve seat during popping. Install the valve in a vertical position only, with the inlet downwards. After the valve has been installed make it pop at least twice to allow automatic alignment of the trim. Misalignment may be caused accidentally during transport or during installation.

Maintenance

The most frequent operation to be carried out is a precise check, made at regular intervals, to observe whether any obvious faults exist in the different parts of the valve. It should be checked first of all that there are no leakages: these must always be avoided, especially when the medium is poisonous, highly volatile or very expensive. Carry out periodic venting for valves with a lifting device to check regular operation. During these tests the pressure must be at least 75% of the full working pressure.

Overhaul

To overhaul the valve the following procedure should be followed: remove the cap, mark the position of the adjusting screw relevant to the locknut, so the correct position may be found during re-setting. Loosen the adjusting screw and locknut to relax the spring, remove the lockscrew from the body, to free the blowdown ring. Unscrew the nozzle from the body and remove the complete assembly from the inside of the body. Check the contact faces of the seat and disc, should any scratching or pitting be present the surfaces will need to be relapped. Replace all of the joints then assemble the valve in reverse order. To prevent damage to the disc and nozzle faces, place a screwdriver in the spindle slot. This will stop the spindle turning whilst re-setting the valve.



These Items are recommended spares.

Item	Description	Material (S ₂)	Material (S ₃)
1	Cap Plug/Gag	Stainless Steel	Stainless Steel
2	Joint (Plug/Gag)	Non Asbestos	Non Asbestos
3	Cap	Carbon Steel	Stainless Steel
4	Adjusting Screw	Stainless Steel	Stainless Steel
5	Locknut	Carbon Steel	Stainless Steel
6	Joint (Cap)	Non Asbestos	Non Asbestos
8	Spring	Stainless Steel	Stainless Steel
9	Spindle	Stainless Steel	Stainless Steel
10	Disc Holder	Stainless Steel	Stainless Steel
11	Ball	Stainless Steel	Stainless Steel
12	Disc	Stainless Steel	Stainless Steel
13	Lockscrew	Stainless Steel	Stainless Steel
14	Joint (Lockscrew)	Non Asbestos	Non Asbestos
15	Blowdown Ring	Stainless Steel	Stainless Steel
16	Joint (Body)	Non Asbestos	Non Asbestos
18	Spring Carrier	Stainless Steel	Stainless Steel
19	Grubscrew	Stainless Steel	Stainless Steel
20	Circlip	Stainless Steel	Stainless Steel
21	Body	Carbon Steel	Stainless Steel
22	Nozzle	Stainless Steel	Stainless Steel

Valve Size	A	B	C	Weight
Screwed Valves				
½" x 1"	44.5	85.5	219	3.0 kg
¾" x 1"				
1" x 1"				
Flanged Valves				
½" x 1"	81*	97*	231*	6.0 kg
¾" x 1"				
1" x 1"				

* Dimensions given are only for ANSI150 RF flanges

TYPE 2600 RELIEF/SAFETY RELIEF VALVE

Saturated Steam Capacities In pounds per hour (10% Accumulation)			Water Capacities In U. S. Gallons per minute (25% Accumulation)			Air Capacities in cubic feet Free air per hour (10% Accumulation)		
Set Pressure Psi Gauge	Orifice Area (sq. in.)		Set Pressure Psi Gauge	Orifice Area (sq. in.)		Set Pressure Psi Gauge	Orifice Area (sq. in.)	
	0.04	0.06		0.04	0.06		0.04	0.06
10	45	68	10	3.3	5	10	15	23
30	59	89	30	5.8	8.6	30	29	43
50	122	184	50	7.5	11.2	50	42	63
70	161	242	70	8.8	13.2	70	55	82
100	219	328	100	10.5	16	100	75	112
150	315	473	150	13	19.4	150	108	162
200	412	618	200	15	22.4	200	141	211
250	508	763	250	16.7	25	250	174	261
300	605	907	300	18.3	27.4	300	207	310
350	700	1052	350	20	29.6	350	240	360
400	798	1197	400	21	31.6	400	273	409
450	895	1342	450	22.3	33.6	450	306	458
500	990	1487	500	23.6	35.4	500	339	508
600	1185	1776	600	26	38.7	600	405	607
700	1377	2066	700	28	42	700	470	706
800	1570	2356	800	30	44.7	800	537	805
900	1764	2645	900	31.7	47.5	900	603	904
1000	1957	2935	1000	33.4	50	1000	669	1003
1200	2343	3515	1200	36.5	55	1200	800	1200
1500	2922	4383	1500	41	61	1500	1000	1500
1700	3310	4963	1700	43.5	65	1700	1130	1700
2000	3900	5830	2000	47	71	2000	1330	1995

Disclaimer

The information, specifications and technical data contained in this catalogue are subject to change without notice. The user should verify all technical data and specifications prior to use. Broady Valves does not warrant that the material and information contained herein is current or correct and assumes no responsibility for the use or misuse of any such material and information by the user.

Distributors for BROADY FLOW CONTROL LIMITED

English Street, Kingston-Upon-Hull,
East Yorkshire, HU3 2DU.
Telephone: 01482 619601 Fax: 01482 619701
Email: sales@broady.co.uk Website: www.broady.co.uk