



TYPE 2500/F SAFETY RELIEF VALVE

The **Type 2500/F Relief/Safety Relief valves** are used for low capacities, and for pressures up to 344 Barg on gas, steam and liquid service. The minimum set pressure is 0.70 Barg.

Valves are supplied in sizes ¾" x 1" to 2" x 2" and can be manufactured in Cast Steel, Stainless Steel and Gunmetal with ends screwed female x female, male 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

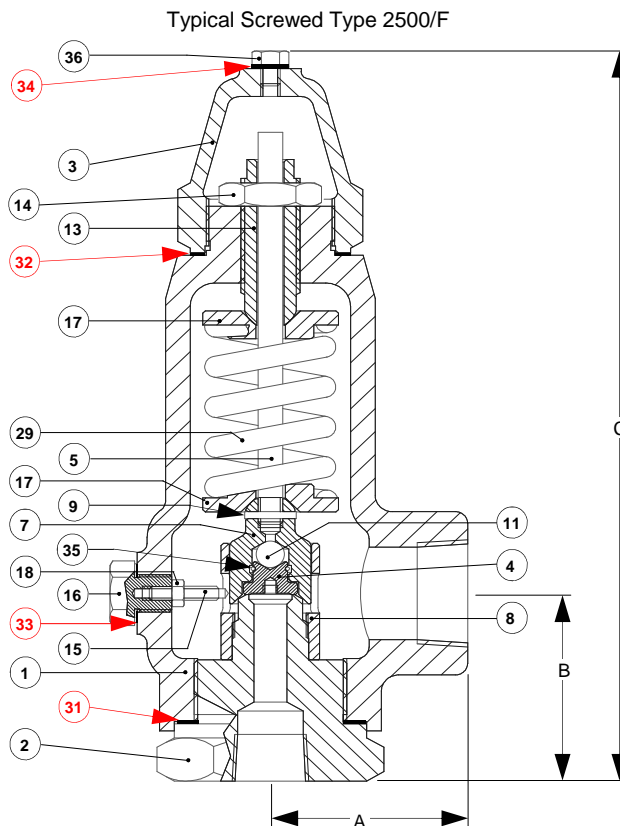
During installation of the valve avoid bumping or shaking to prevent damaging the flange faces and misalignment of the trim. Blow through the circuit line on which the valve is to be installed, this is to remove any foreign bodies. Clean the valve and nozzle connections thoroughly; foreign bodies on 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 lock screw 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.



Item	Description	Material (C/S)	Material (S/S)
1	Body	Carbon Steel	Stainless Steel
2	Nozzle	Stainless Steel	Stainless Steel
3	Cap	Carbon Steel	Stainless Steel
4	Disc	Stainless Steel	Stainless Steel
5	Spindle	Stainless Steel	Stainless Steel
7	Disc Holder	Stainless Steel	Stainless Steel
8	Blowdown Ring	Stainless Steel	Stainless Steel
9	Pin, Disc Holder	Stainless Steel	Stainless Steel
13	Adjusting Screw	Stainless Steel	Stainless Steel
14	Locknut	Stainless Steel	Stainless Steel
15	Screwed Pin	Stainless Steel	Stainless Steel
16	Clampscrew	Stainless Steel	Stainless Steel
17	Spring Carrier	Carbon Steel	Stainless Steel
18	Locknut	Stainless Steel	Stainless Steel
29	Spring	Carbon Steel	Stainless Steel
31	Joint, Body	Non Asbestos	Non Asbestos
32	Joint, Cap	Non Asbestos	Non Asbestos
33	Joint, Clampscrew	Non Asbestos	Non Asbestos
34	Joint, Plug	Non Asbestos	Non Asbestos
35	Circlip, Disc	Stainless Steel	Stainless Steel
36	Plug	Stainless Steel	Stainless Steel

Type	Orifice	Inlet x Outlet	A	B	C	Weight
2501/F	0.785 cm ²	¾" x 1"	70	85	360	10 kg
2502/F		1" x 1½"				11 kg
2503/F	1.389 cm ²	1½" x 2"	85	100	415	15 kg
2504/F		2" x 2"				
2505/F		1½" x 2"				
2506/F	2.851 cm ²	2" x 2"				16 kg

These Items are recommended spares.

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