

Bronze Relief Valves

Suitable for temperatures up to 120°C and pressures up to 20.7 bar

Fig. 322

Specification

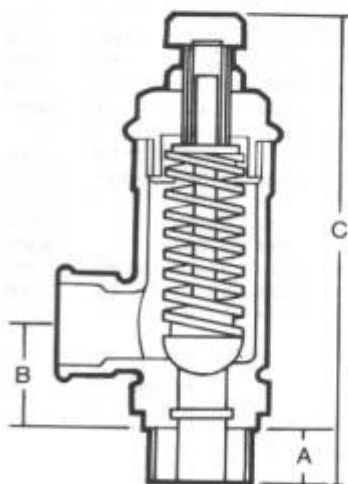
These spring relief valves are designed for duties where high discharge capacities are not required, for example water and oil where a relatively small volumetric discharge will effectively reduce the pressure.

The figure 322 side outlet type is particularly suitable when the discharge medium must be piped away.

The discharge capacity of a spring relief valve increases as the pressure rises above the set pressure.

This pressure rise is known as the accumulation.

The water discharge capacities for relief valves are given at an accumulation of 10%.



Material Specification

Component	Material	BS	Specification	
			ASTM	DIN
Regulating Screw	Brass	2874-CZ121	B455-385	17660 CuZn39Pb3
Locknut	Brass	2874-CZ121	B455-385	17660 CuZn39Pb3
Cap (1/2 & 3/4 in)	Brass	2872-CZ122	B124 Alloy 2	17660 MS58CuZn40Pb2
(1 to 3 in)	Gunmetal	1400 LG2	B62	1705 G-CuSn5ZnPb
Spring Top Plate				
(1/2 to 1 1/4 in)	Brass	2874-CZ121	B455-385	17660 CuZn39Pb3
(1 1/2 to 3 in)	Gunmetal	1400 LG2	B62	1705 G-CuSn5ZnPb
Spring	Stainless Steel			
Stem (1/2 to 2 in)	Brass	2874-CZ121	B455-385	17660 CuZn39Pb3
(2 1/2 & 3 in)	Gunmetal	1400 LG2	B62	1705 G-CuSn5ZnPb
Disk (1/2 to 1 1/4 in)	Manganese Bronze	2874-CZ116	-	1709 CuZn34Al5
(1 1/2 to 3 in)	Gunmetal	1400 LG2	B62	1705 G-CuSn5ZnPb
Body	Gunmetal	1400 LG2	B62	1705 G-CuSn5ZnPb

Dimensions.

Nominal Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
A	mm	16	18	22	24	25	29	32	32
B	mm	27	30	38	46	51	67	86	98
C	mm	144	149	178	203	243	288	317	354
Weight	kg	0.54	0.74	1.3	1.8	2.4	4.1	7.5	10

Operating Range (Blow-off Pressures)

Nominal Size	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Minimum	bar	0.3	.03	0.3	0.5	0.5	0.6	0.7	0.7
Maximum	bar	20.7	20.7	17.2	17.2	13.8	13.8	13.8	13.8