

Bronze Proportional Lift Relief Valves



Dome Top - Screwed or Flanged Connections

Side Outlet discharge with leak proof Dome Cover over the adjusting screw. These valves are commonly used for preventing a safe pressure being exceeded in pressurised systems.

The lift is proportional to the system overpressure.

Approved to BS EN ISO 9001: 2000. Certificate No. 0910407.

Material List		
1	Dome Top	Cu Alloy BS EN 12164 CW617N
2	Body	Cu Alloy BS EN 1982 CC491K
3	Base (Metal Seat)	Cu Alloy BS EN 1982 CC491K
3T	TFM Seat	Dyneon™ TFM™ PTFE 1600
3V	Viton Seat	Viton 85 Brown
3S	Silicone Seat	Silicone 50 Blue
3FL	Flanged Inlet	Cu Alloy BS EN 1982 CC491K
4	Adjusting Screw	Cu Alloy BS EN 12164 CW641N
5	Lock Nut	Cu Alloy BS EN 12164 CW641N
6	Spring Plate	Cu Alloy BS EN 12164 CW721R
7	Spindle	Cu Alloy BS EN 12164 CW721R
8	Ball	Chrome Steel AISI 52100
9	Valve	Cu Alloy BS EN 12165 CW602N
10	Label	Metallised Polymer
11	Spring 15 - 50mm	St. Steel BS2056 302 S26
	Spring 65 & 80mm	Carbon Steel BS5216 ND3
12	Flanged Outlet	Cu Alloy BS EN 1982 CC491K
13	Washer	Fibre

Dimensions						
Size	Inches	A	B	C	D	Kg
DN15	1/2"	16	35	87	34	0.60
DN20	3/4"	16	36	97	40	0.80
DN25	1"	17	47	113	48	1.50
DN32	1 1/4"	23	51	136	51	2.00
DN40	1 1/2"	24	51	138	56	2.60
DN50	2"	27	60	127	62	3.50
DN65	2 1/2"	28	87	156	78	6.90
DN80	3"	28	94	170	83	9.00

Flange dimensions vary according to specification (available upon request).

Seat Types - Spring/Pressure Ranges							
Seat Housing	Valve	Pressure Range	Temperature Range	Spring Ranges (bar & p.s.i.)			
				A (Low)	B (Medium)	C (High)	D (Special*)
Bronze	Bronze	to 21.0 bar (300 p.s.i.)	-15° to +225°C	0.5 - 3.5 (7 - 50)	3.5 - 10.4 (50 - 150)	10.4 - 20.7 (150 - 300)	N/A
Bronze TFM insert	Bronze	to 21.0 bar (300 p.s.i.)	-15° to +225°C	0.5 - 2.0 (7 - 30)	2.0 - 8.3 (30 - 120)	8.3 - 17.9 (120 - 260)	17.9 - 20.7 (260 - 300)
Bronze VITON seal**	Bronze	to 21.0 bar (300 p.s.i.)	-15° to +200°C	0.5 - 2.0 (7 - 30)	2.0 - 8.3 (30 - 120)	8.3 - 16.5 (120 - 240)	16.5 - 20.7 (240 - 300)
Bronze Silicon seal**	Bronze	to 21.0 bar (300 p.s.i.)	-15° to +180°C	0.5 - 2.0 (7 - 30)	2.0 - 8.3 (30 - 120)	8.3 - 16.5 (120 - 240)	16.5 - 20.7 (240 - 300)

*50mm only available for special orders. **65 & 80mm not available.

Full Cat IV PED approval.

Only 4 springs are needed to cover the full pressure range.

Clear operating and maintenance instructions are supplied with each despatch.

Screwed/Flanged or a combination of both are available as standard.

Pipe Connections

- Male Inlet x Female Outlet.
- Standard valves are threaded BS 21:1985 Rp Parallel.
- Alternative thread standards, i.e. taper or NPT are available upon request.
- Flanged connections also available. Most flange standards can be accommodated, e.g. ANSI, BS4504 - please specify requirements.

