

# Pressure Relief Valves



### Applications:

Nabic Pressure Relief Valves, are intended for use where pressure tightness is required on the discharge side of the valve. They are ideal for pump relief, bypass relief, outside installations, and inflammable fluids.

### Construction:

The valves are of gunmetal construction with top guided copper alloy parts, chrome vanadium spring and PTFE to metal seating. O-Ring seals ensure pressure tightness at cover and cap joints.

Available options are: stainless steel springs, high pressure versions and Viton seat design.

### Features:

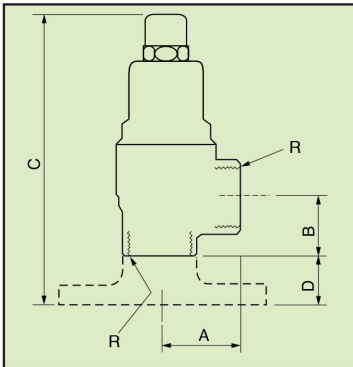
- Resilient PTFE seating design
- High degree of seat tightness
- Suitable for liquids and gases
- Top guided working parts
- Pressure tight on discharge side
- Designed and tested to BS 6759
- Flanged inlets available



Fig 542L

**Body Material:** Gunmetal  
**Max Set Pressure:** 10.5 bar  
**Max Temperature:** 195°C

### Dimensions



Size DN	R BSP	A mm	B mm	C mm	D mm
15	1/2	30	23	113	-
20	3/4	34	23	118	-
25	1	39	27	132	-
32	1.1/4	46	33	180	27
40	1.1/2	54	38	224	26
50	2	64	46	263	27
65	2.1/2	76	55	303	28
80	3	90	65	366	31



### Discharge Capacities

The discharge capacity of a pressure relief valve must be equal to or greater than the output of the system it is protecting.

Capacities are tabulated (right) to assist selection.

To convert to galls/min multiply by 0.22.

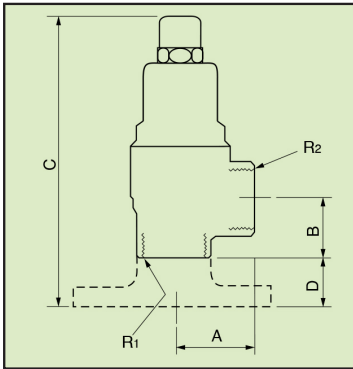
These (right) discharge capacities have been calculated in accordance with BS 6759: Part 1 & 3, using a derated coefficient of discharge (Kdr) of 0.142

Water - 10% Overpressure								
Set Pressure bar	Litres/min							
	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80
1.0	22	40	62	102	159	248	419	635
2.0	32	56	88	144	225	351	593	898
3.0	39	69	107	176	275	430	726	1100
4.0	45	79	124	203	318	496	839	1270
5.0	50	89	139	227	355	555	938	1420
6.0	55	97	152	249	389	608	1027	1556
7.0	59	105	164	269	420	657	1109	1681
8.0	63	112	175	287	449	702	1186	1797
9.0	67	119	186	305	476	744	1258	1906
10.5	72	129	201	329	515	804	1359	2058

## Fig 500L

**Body Material:** Gunmetal  
**Max Set Pressure:** 12.5 bar  
**Max Temperature:** 195°C

### Dimensions



Size DN	R1 BSP	R2 BSP	A mm	B mm	C mm	D mm
10	3/8	1/2	26	21	101	-
15	1/2	3/4	33	20	120	-
20	3/4	1	39	24	162	28
25	1	1.1/4	45	30	185	30
32	1.1/4	1.1/2	54	36	229	28
40	1.1/2	2	64	41	273	32
50	2	2.1/2	76	47	303	36
65	2.1/2	3	90	60	366	36



### Discharge Capacities

The discharge capacity of a pressure relief valve must be equal to or greater than the output of the system it is protecting.

Capacities are tabulated (right) to assist selection.

To convert to galls/min multiply by 0.22.

These (right) discharge capacities have been calculated in accordance with BS 6759: Part 1 & 3, using a derated coefficient of discharge (K<sub>dr</sub>) of 0.345

Set Pressure bar	Water - 10% Overpressure							
	Litres/min							
	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65
1.0	29	54	96	151	247	386	603	1019
2.0	41	77	136	213	349	546	853	1441
3.0	51	94	167	261	428	668	1044	1765
4.0	58	109	193	301	494	772	1206	2038
5.0	65	121	216	337	552	863	1348	2278
6.0	71	133	236	369	605	945	1477	2496
7.0	77	144	288	399	653	1021	1595	2696
8.0	83	153	273	426	698	1091	1705	2882
9.0	88	163	289	452	741	1158	1809	3057
10.0	92	172	305	477	781	1220	1906	3222
11.0	97	180	320	500	819	1280	1999	3379
12.5	103	192	341	533	873	1364	2131	3602