



GOE-810
Brass
Atmospheric Discharge
Safety Relief Valve
For Air & Inert Gases
BSPB Threaded



The GOE-810 safety relief valve is suitable for the protection of pressure tanks and systems for air and inert gas applications.

The valve has a high discharge capacity making it possible to use this small and inexpensive safety relief valve, even for large pressure tanks.

Not recommended for use with Helium gas.

Features, Benefits & Approvals

- TÜV test certificate: 2055
- DIN EN ISO 4126-1
- Economical & reliable
- High pressure & temperature
- Set, tested and certified prior to despatch

Pressure & Temperature

Pressure range:-
FKM Disc: 0.2 to 25 bar
PTFE Disc: 0.2 to 50 bar
Note: 32mm-50mm Max. Pressure 16 bar
Temperature range:-
FKM Disc: -20°C to 200°C
PTFE Disc: -60°C to 225°C

DN (BSPB)	06 (1/4")	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")	50 (2")
A*	60	65 (78)	66 (79)	94 (104)	111	133	161	165
B	10	10	12	12	14	20	22	24
C	7.5	10	11	16	20	25	32	40
E	19	24	27	34	41	50	60	68
Flow Coefficients (ISO 4126-1) α_w/K_{dr} **	0.77	0.79	0.80	0.79	0.77	0.67	0.71	0.74
Weight Kg*	0.1	0.14 (0.16)	0.17 (0.19)	0.35 (0.40)	0.60	0.97	1.85	2.45

* Dimensions in brackets when valve is set at or above the following pressures - DN10 - DN20: 9.1 bar & DN15: 7.1 bar

** Coefficients of flow for blow-off pressures for blow-off pressures > 4,0 bar. For lower pressures refer to values in the capacity table

AIR CAPACITY - 10% OVERPRESSURE (BS EN 4126-1) Nm ³ /h								
Set Pressure (Bar)	DN06	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	19	34	42	92	115	197	340	572
0.5	32	59	75	157	190	297	510	841
1	46	86	108	227	308	430	740	1212
2	73	133	166	346	505	684	1173	1942
3	100	182	223	465	702	942	1621	2670
4	125	228	280	584	890	1210	2101	3421
5	151	275	337	703	1071	1456	2528	4118
6	176	321	394	822	1252	1703	2956	4814
7	202	368	451	941	1434	1949	3384	5511
8	227	414	508	1060	1615	2196	3812	6208
9	253	461	565	1179	1796	2442	4240	6905
10	278	507	621	1298	1977	2689	4668	7602
11	304	554	678	1417	2159	2935	5096	8299
12	329	600	735	1537	2340	3181	5524	8995
13	355	647	792	1656	2521	3428	5952	9692
14	380	693	849	1775	2703	3674	6379	10389
15	406	740	906	1894	2884	3921	6807	11086
16	431	786	963	2013	3065	4167	7235	11783
20	533	972	1191	2489	3790	-	-	-
25	660	1205	1476	3084	4696	-	-	-
30	788	1437	1761	3679	5603	-	-	-
35	915	1667	2043	4269	6502	-	-	-
40	1043	1902	2331	4869	7416	-	-	-
45	1170	2132	2612	5458	8313	-	-	-
50	1298	2367	2900	6059	9228	-	-	-

Materials

Body & Internal Parts	Brass
Spring	Stainless Steel
Disc	FKM (0.4 to 25 bar) • PTFE (25.1 to 50 bar)