



GOE-412
Stainless Steel
Atmospheric Discharge
High Performance & Capacity
Safety Relief Valve
For Air & Inert Gases
BSPB Threaded



The GOE-412 is a quality, high performance safety relief valve suitable for the protection of pressure tanks and systems for air and inert gas applications.

The valve has a high discharge rate making it suitable for high capacity applications.

Features, Benefits & Approvals

- TÜV test certificate: 2055
- DIN EN ISO 4126-1
- High quality & reliable
- Various disc seal options
- High capacity, pressure & temperature
- Lifting device as standard (without option)
- Set, tested and certified prior to despatch

Pressure & Temperature

Pressure range:-

NBR, FKM, EPDM Disc: 0.2 to 30 bar

PTFE Disc: 0.2 to 50 bar

Note: DN50 max pressure is 30 bar

Temperature range:-

NBR Disc: -30°C to 130°C

FKM Disc: -20°C to 200°C

EPDM Disc: -40°C to 170°C

PTFE Disc: -60°C to 225°C

DN (D)	15 (1/2")	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")	50 (2")
A*	144	177	177	215 (177)	215 (177)	282
B	12	15	15	22.5	22.5	26
C	14	20	24	32	32	48
E	32	41	41	55	55	80
Flow Coefficients (ISO 4126-1) α_w/K_{dr} **	0.76	0.80	0.80	0.80	0.80	0.51
Weight Kg	0.6	1.3	1.3	2.6	2.6	5.4

* Dimensions in brackets are for short option when valve is set between following pressures - 0.2 to 6 bar

** Coefficients of flow for blow-off pressures for blow-off pressures > 4.0 bar except DN50 which is > 7.0. For lower pressures refer to values in the capacity table

AIR CAPACITY - 10% OVERPRESSURE (BS EN 4126-1) Nm ³ /h						
Set Pressure (Bar)	DN15	DN20	DN25	DN32	DN40	DN50
0.2	57.3	147.0	211.7	353.2	353.2	662.2
0.5	100.3	220.2	317.1	529.1	529.1	928.9
1	148.5	320.9	462.2	771.1	771.1	1382.7
2	246.1	522.8	752.8	1256.0	1256.0	2334.0
3	340.6	722.7	1040.7	1736.4	1736.4	3194.6
4	436.0	924.5	1331.3	2221.2	2221.2	4085.1
5	524.9	1112.9	1602.5	2673.7	2673.7	4967.8
6	613.7	1301.2	1873.7	3126.1	3126.1	5808.5
7	702.5	1489.5	2144.9	3578.6	3578.6	6649.2
8	791.3	1677.9	2416.1	4031.0	4031.0	6161.1
9	880.1	1866.2	2687.3	4483.5	4483.5	6852.6
10	969.0	2054.5	2958.5	4936.0	4936.0	7544.2
11	1057.8	2242.8	3229.7	5388.4	5388.4	8235.7
12	1146.6	2431.2	3500.9	5840.9	5840.9	8927.3
13	1235.4	2619.5	3772.1	6293.4	6293.4	9618.8
14	1324.2	2807.8	4043.3	6745.8	6745.8	10310.4
15	1413.1	2996.2	4314.5	7198.3	7198.3	11001.9
20	1857.2	3937.8	5670.5	9460.6	9460.6	14459.7
25	2301.3	4879.5	7026.4	11722.9	11722.9	17917.4
30	2745.4	5821.1	8382.4	13985.2	13985.2	21375.2
40	3633.6	7704.4	11094.4	18509.9	18509.9	-
50	4521.8	9587.7	13806.3	23034.5	23034.5	-

Materials

Body	Stainless Steel (316L)
Internal Parts	Stainless Steel (316L)
Spring	Stainless Steel (302/631)
Disc	NBR (Standard - 0.4 to 30 bar) • PTFE (Standard - 30.1 to 50 bar) • FKM • EPDM