



GOE-2400
Stainless Steel
Side Discharge
Full Lift
Safety Relief Valve
For Cryogenic & Food Duties
BSPP Threaded
(NPT male inlet on request)



The GOE-2400 full lift safety relief valve is designed for high capacity pressure relief of cryogenic fluids in tanks and systems.

The valve has FDA approval enabling it to be used in plants where cryogenic gases come into contact with foodstuffs.

Features, Benefits & Approvals

- TÜV test approval: 2091
- DIN EN ISO 4126-1
- FDA approved for food use
- Twist or lever lifting mechanism
- Gastight dome top option
- Set, tested and certified prior to despatch

Pressure & Temperature

Pressure range:-
DN08-DN20: 0.2 to 70 bar
DN25-DN32: 0.2 to 50 bar
Temperature range:-
-200°C to 200°C

DN	8					10		15		20		25		32		
G Inlet	1/4"	3/8"	1/4"	3/8"	1/2"	1/2"	3/8"	1/2"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"
G Outlet	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	1"	1"	1 1/2"	1 1/2"	2"	2"	
H1	12	12	12	12	14	12	14	14	16	16	18	18	22	20	20	
h	22	22	26	26	26	26	26	31	31	39	39	56	56	66	66	
L	21	21	26	26	26	26	26	31	31	38	38	53	53	66	66	
Lmax	43	43	47	47	47	47	47	66	66	86	86	85	85	122	122	
H	82	82	96	96	96	96	96	130	130	173	173	-	-	-	-	
H1	91	91	107	107	107	107	107	144	144	185	185	215	215	276	276	
H2	85	85	99	99	99	99	99	134	134	172	172	203	203	264	264	
Hmax	99	99	116	116	116	116	116	156	156	201	201	230	230	300	300	
SW	22	22	27	27	27	27	27	34	34	41	41	50	50	55	55	
Weight Kg	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.3	1.3	2.8	2.8	6.4	6.4	

Materials

Inlet Body	Stainless Steel (316L)
Outlet Body	Stainless Steel (CF8M)
Internal Parts	Stainless Steel (316L)
Spring	Stainless Steel (302)
Seal	PTFE O-ring with FDA Approval

GOE-2400

Capacity Charts/Sizing

CAPACITY AIR (Nm ³ /h) @ 10% overpressure						
Set Pressure (bar)	DN08	DN10	DN15	DN20	DN25	DN32
0.2	11.1	17.3	33.9	51.9	99.5	162.5
0.5	17.4	27.2	53.3	81.7	156.7	255.8
1.0	25.8	40.3	79.0	121.1	232.2	379.2
1.5	34.5	54.0	105.8	162.1	310.8	507.5
2.0	43.2	67.5	132.2	202.7	388.6	634.4
2.5	51.7	80.8	158.4	242.7	465.4	759.8
3.0	60.1	93.9	184.1	282.1	540.9	883.2
3.5	68.1	106.5	208.7	319.9	613.3	1001.4
4.0	76.0	118.8	232.8	356.8	684.1	1116.9
4.5	83.8	130.9	256.5	393.2	753.8	1230.7
5.0	91.5	143.0	280.2	429.5	823.4	1344.4
6.0	107.0	167.1	327.6	502.2	962.8	1571.9
7.0	122.5	191.3	375.0	574.9	1102.1	1799.5
8.0	137.9	215.5	422.4	647.6	1241.5	2027.0
9.0	153.4	239.7	469.9	720.2	1380.8	2254.5
10	168.9	263.9	517.3	792.9	1520.2	2482.0
15	246.3	384.9	754.4	1156.4	2216.9	3619.6
20	323.7	505.8	991.5	1519.8	2913.7	4757.2
25	401.2	626.8	1228.5	1883.2	3610.4	5894.8
30	478.6	747.8	1465.6	2246.6	4307.2	7032.4
40	633.4	989.7	1939.8	2973.5	5700.7	9307.6
50	788.2	1231.6	2414.0	3700.3	7094.2	11582.7
60	943.1	1473.6	2888.2	4427.2	-	-
70	1097.9	1715.5	3362.3	5154.1	-	-

CAPACITY WATER (m ³ /h) @ 10% overpressure						
Set Pressure (bar)	DN08	DN10	DN15	DN20	DN25	DN32
0.2	0.4	0.6	1.2	1.9	3.6	5.9
0.5	0.6	0.9	1.8	2.7	5.2	8.4
1.0	0.8	1.2	2.4	3.7	7.0	11.5
1.5	1.0	1.5	2.9	4.5	8.6	14.1
2.0	1.1	1.7	3.4	5.2	10.0	16.3
2.5	1.2	1.9	3.8	5.8	11.2	18.2
3.0	1.4	2.1	4.2	6.4	12.2	20.0
3.5	1.5	2.3	4.5	6.9	13.2	21.6
4.0	1.6	2.5	4.8	7.4	14.1	23.1
4.5	1.7	2.6	5.1	7.8	15.0	24.5
5.0	1.8	2.7	5.4	8.2	15.8	25.8
6.0	1.9	3.0	5.9	9.0	17.3	28.3
7.0	2.1	3.2	6.4	9.8	18.7	30.5
8.0	2.2	3.5	6.8	10.4	20.0	32.6
9.0	2.4	3.7	7.2	11.1	21.2	34.6
10	2.5	3.9	7.6	11.7	22.4	36.5
15	3.0	4.8	9.3	14.3	27.4	44.7
20	3.5	5.5	10.8	16.5	31.6	51.6
25	3.9	6.1	12.0	18.4	35.4	57.7
30	4.3	6.7	13.2	20.2	38.7	63.2
40	5.0	7.8	15.2	23.3	44.7	73.0
50	5.6	8.7	17.0	26.1	50.0	81.6
60	6.1	9.5	18.6	28.6	-	-
70	6.6	10.3	20.1	30.9	-	-