



GOE-417
Stainless Steel
Side Discharge
Overflow & Pressure
Control Valve
For Air, Oil, Steam & Water*
High Capacity
BSPF Female Threaded



The GOE-417 is a compact overflow and pressure control valve designed for pump protection and bypass control applications with high capacities.

User pressure adjustment is achievable on site or these valves can be set to your requirements before despatch.

Features, Benefits & Approvals

- Lloyds, DNV, BV type approved**
- ABS & GL type approved**
- Suitable for high capacities
- Side discharge
- Gastight spring housing dome
- Set, tested and certified prior to despatch
- User adjustable if necessary

Pressure & Temperature

Pressure range:-

0.2 to 12 bar

12 to 20 bar
(PTFE disc only)

Temperature range:-

NBR Disc: -30°C to 130°C

EPDM Disc: -50°C to 150°C

PTFE Disc: -60°C to 225°C

FKM Disc: -20°C to 200°C

DN (G)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (1 1/4")	40 (1 1/2")	50 (2")
L	27	30	33	40	45	50	60
H	60	69	86	101	118	139	149
h	26	30	35	41	45	51	60
SW	24	28	34	41	52	58	70
do	10	13	19	25	30	38	50
Weight Kg	0.3	0.4	0.7	1.2	1.9	2.5	3.8
Range of Adjustment	0.2 - 0.8 bar • 0.5 - 2.5 bar • 2 - 8 bar • 2 - 12 bar • 12 - 20 bar** (Specify when ordering)						

Materials	
Inlet Body	Stainless Steel (316L)
Outlet Body	Stainless Steel (316L / CF8M)
Internal Parts	Stainless Steel (316L)
Spring	Stainless Steel (302)
Disc	NBR (standard) • EPDM • PTFE • NBR • FKM

* Dependent on version, please check compatibility ** On request, PTFE seals only

GOE-417
Capacity Charts/Sizing

Kv VALUES AIR (Nm ³ /h) @ 1 bar overpressure							
Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	24	53	177	200	600	930	1500
0.5 ⁽¹⁾	28 (83)	61 (147)	200 (209)	220 (375)	680 (717)	970 (847)	1620 (1376)
0.8 ⁽¹⁾	32 (90)	67 (153)	220 (220)	245 (384)	700 (771)	1050 (878)	1740 (1478)
1.0	95	158	228	390	808	899	1546
1.5	101	173	257	433	901	1033	1734
2.0 ⁽²⁾	111 (62)	180 (126)	287 (180)	462 (335)	977 (353)	1104 (552)	1904 (1001)
2.5 ⁽²⁾	119 (68)	202 (132)	306 (197)	495 (351)	1031 (361)	1205 (564)	1953 (1082)
3.0 ⁽³⁾	75 (51)	143 (95)	226 (188)	376 (322)	369 (272)	577 (481)	1170 (821)
4.0 ⁽³⁾	83 (62)	166 (101)	239 (213)	423 (341)	417 (311)	601 (527)	1339 (878)
5.0 ⁽³⁾	95 (80)	169 (105)	233 (242)	466 (361)	459 (352)	726 (566)	1508 (942)
6.0 ⁽³⁾	101 (90)	173 (111)	269 (250)	402 (380)	502 (397)	893 (597)	1846 (994)
7.0 ⁽³⁾	106 (96)	150 (118)	303 (257)	398 (391)	549 (437)	994 (764)	2224 (1050)
8.0 ⁽³⁾	112 (114)	139 (117)	324 (314)	391 (347)	606 (492)	1113 (910)	2666 (1123)
9.0	115	123	324	301	546	949	1187
10	122	133	331	288	600	1023	1280
12 ⁽⁴⁾	126 (96)	138 (112)	354 (221)	261 (305)	538 (594)	1095 (682)	1480 (1237)
14	116	94	166	282	656	834	1388
16	122	76	132	257	716	987	1609
18	129	56	84	233	758	922	2033
20	140	36	45	208	801	851	2357

Kv VALUES WATER (m ³ /h) @ 1 bar overpressure							
Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	2.7	4.4	5.6	6.0	18.3	29.0	41.0
0.5 ⁽¹⁾	2.9 (2.)	4.6 (4.3)	5.6 (6.1)	6.4 (10.8)	19.5 (16.0)	29.0 (21.7)	44.4 (31.6)
0.8 ⁽¹⁾	2.9 (2.8)	4.9 (4.5)	5.6 (6.3)	7.1 (11.5)	20.0 (16.4)	29.0 (22.6)	47.0 (34.0)
1.0	3.0	4.6	6.5	11.9	16.7	23.3	35.6
1.5	3.2	4.8	6.7	12.6	17.5	24.0	37.7
2.0 ⁽²⁾	3.4 (1.9)	5.0 (2.2)	6.9 (4.5)	13.0 (8.5)	18.1 (7.6)	25.2 (10.9)	40.6 (24.3)
2.5 ⁽²⁾	3.7 (2.2)	5.2 (2.1)	7.3 (4.8)	13.7 (8.9)	18.9 (7.5)	26.1 (11.3)	43.0 (26.2)
3.0 ⁽³⁾	2.3 (1.9)	1.9 (1.8)	5.2 (4.1)	9.3 (4.3)	7.4 (6.1)	11.8 (9.3)	28.2 (21.1)
4.0 ⁽³⁾	2.7 (2.2)	1.6 (1.7)	5.7 (4.6)	10.0 (4.5)	7.3 (6.1)	12.2 (9.7)	31.3 (24.7)
5.0 ⁽³⁾	2.9 (2.5)	1.4 (1.6)	6.5 (5.1)	10.4 (4.6)	7.2 (6.0)	12.5 (10.3)	34.7 (28.9)
6.0 ⁽³⁾	3.4 (2.8)	1.3 (1.5)	7.1 (6.1)	11.0 (4.7)	7.0 (5.9)	12.8 (10.6)	36.3 (30.1)
7.0 ⁽³⁾	3.6 (2.9)	1.1 (1.5)	7.9 (6.5)	11.2 (5.0)	6.7 (5.8)	13.7 (11.9)	41.1 (31.7)
8.0 ⁽³⁾	3.9 (3.1)	1.0 (1.4)	8.5 (7.1)	11.3 (5.1)	6.5 (5.6)	15.1 (13.1)	47.4 (34.2)
9.0	3.2	1.4	7.3	5.3	5.5	14.3	14.3
10	3.4	1.4	8.3	5.5	5.3	15.7	39.3
12 ⁽⁴⁾	3.7 (1.7)	1.3 (0.4)	9.3 (2.8)	5.9 (2.2)	5.0 (6.8)	17.6 (10.1)	43.9 (18.9)
14	1.3	0.5	2.2	1.9	6.3	10.5	24.1
16	0.8	0.5	1.4	1.3	6.0	10.9	27.6
18	0.4	0.6	0.9	1.0	5.6	11.3	31.8
20	0.2	0.6	0.7	0.7	5.0	11.5	36.6

Kv VALUES STEAM (kg/h) @ 1 bar overpressure							
Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	18	41	138	156	468	726	1172
0.5 ⁽¹⁾	22 (65)	47 (113)	156 (163)	172 (295)	531 (509)	757 (665)	1265 (1100)
0.8 ⁽¹⁾	25 (70)	52 (120)	172 (173)	191 (305)	547 (541)	820 (700)	1359 (1173)
1.0	74	125	181	313	553	724	1222
1.5	81	135	200	345	615	798	1345
2.0 ⁽²⁾	86 (53)	143 (98)	221 (144)	373 (280)	642 (283)	862 (455)	1451
2.5 ⁽²⁾	93 (60)	157 (104)	235 (161)	384 (302)	619 (301)	940 (510)	1535 (787)
3.0 ⁽³⁾	66 (43)	111 (80)	171 (156)	309 (258)	297 (223)	506 (387)	884 (698)
4.0 ⁽³⁾	79 (53)	129 (79)	187 (160)	339 (308)	333(244)	499 (428)	876 (670)
5.0 ⁽³⁾	77 (66)	135 (82)	186 (176)	412 (322)	361 (283)	579 (455)	987 (740)
6.0 ⁽³⁾	78 (75)	132 (88)	212 (200)	388 (326)	441 (323)	707 (518)	1145 (859)
7.0 ⁽³⁾	84 (81)	118 (93)	225 (198)	275 (298)	429 (363)	740 (635)	1224 (816)
8.0 ⁽³⁾	89 (89)	123 (96)	249 (190)	254 (279)	474 (402)	821 (645)	1284 (916)
9.0	89	98	193	250	441	707	1015
10	97	106	192	273	480	770	1002
12 ⁽⁴⁾	101 (79)	105 (78)	204 (183)	282 (247)	406 (457)	814 (570)	1179 (987)
14	90	57	162	201	521	650	1125
16	94	51	130	180	584	728	1261
18	96	32	87	150	576	693	1339
20	105	21	32	165	632	634	1537

(1) Figures in brackets are with spring range 0.5 - 2.5 bar

(2) Standard figures are 0.5 - 2 bar and figures in brackets are with spring range 2 - 8 bar, contact sales for figures when valve is fitted with 2 - 12 bar spring

(3) Figures in brackets are with spring range 2 - 12 bar

(4) Figures in brackets are with spring range 12 - 20 bar