



GOE-618YT
Bronze
Straight Pattern
Overflow & Pressure
Control Valve
For Air, Oil, Steam & Water*
BSPP Female Threaded



The compact GOE-618YT overflow and pressure control valve is designed for pump protection and bypass control applications.

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

Features, Benefits & Approvals

- Lloyds, DNV, BV type approved**
- ABS & GL type approved**
- 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 (PTFE, NBR & FKM discs)
12 to 20 bar (PTFE disc only)

Temperature range:-

PTFE Disc: -60°C to 225°C
NBR Disc: -30°C to 130°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")
L1	69	72	90	95	115
L2	87	95	111	126	149
h	26	30	35	43	46
H3	64	68	86	100	114
SW1	24	27	32	41	50
Weight Kg	0.3	0.4	0.7	1.2	1.9

Range of Adjustment 0.2 - 0.8 bar • 0.5 - 2.5 bar • 2 - 12 bar • 12 - 20 bar** (Specify when ordering)

Materials	
Body	Bronze
Internal Parts	Brass / Bronze
Spring	Stainless Steel
Disc	PTFE (standard) • NBR • FKM

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

GOE-618YT
Capacity Charts/Sizing

Kv VALUES AIR (Nm³/h) @ 1 bar overpressure

Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32
0.2	49	85	125	158	380
0.5 ⁽¹⁾	52 (46*)	94 (50)	139 (90)	177 (99)	428 (261)
0.8 ⁽¹⁾	58 (47*)	104 (57)	152 (94)	191 (111)	472 (284)
1.0	49*	64	101	124	314
1.5	50*	66	118	141	370
2.0 ⁽²⁾	54* (13*)	69 (72*)	131 (77)	162 (101)	419 (161)
2.5 ⁽²⁾	56* (11*)	70 (72*)	155 (83)	179 (106)	479 (174)
3.0	8*	73*	91	118	195
4.0	7*	75*	98	127	225
5.0	4*	78*	108	136	241
6.0	3*	79*	112	147	268
7.0	<1	80*	115	154	289
8.0	<1	84*	116	151	309
9.0	<1	86*	118	146	329
10	<1	89*	121	141	342
12 ⁽³⁾	<1 (<1)	95* (<1)	125 (74*)	133 (117*)	387 (395*)
14	<1	<1	97*	139*	401*
16	<1	5*	125*	162*	418*
18	<1	38*	148*	186*	447*
20	<1	65*	180*	202*	468*

Kv VALUES WATER (m³/h) @ 1 bar overpressure

Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32
0.2	1.6	2.7	3.6	5.1	11.4
0.5 ⁽¹⁾	1.7 (0.4)	2.9 (1.6)	3.8 (2.7)	5.4 (3.1)	11.9 (7.3)
0.8 ⁽¹⁾	1.7 (0.4)	3.0 (1.6)	4.1 (2.9)	5.7 (3.2)	12.7 (7.6)
1.0	0.4	1.7	3.1	3.3	8.0
1.5	0.4	1.8	3.2	3.6	8.5
2.0 ⁽²⁾	0.5 (0.4)	1.8 (0.9)	3.3 (2.0)	3.8 (2.6)	9.1 (4.1)
2.5 ⁽²⁾	0.5 (0.4)	1.9 (0.9)	3.5 (2.1)	4.1 (2.6)	9.8 (4.3)
3.0	0.4	0.8	2.1	2.7	4.4
4.0	0.4	0.8	2.1	2.8	4.6
5.0	0.4	0.8	2.1	2.9	4.9
6.0	0.4	0.7	2.2	2.8	5.0
7.0	0.5	0.6	2.2	2.7	5.1
8.0	0.4	0.5	2.0	2.4	5.4
9.0	0.4	0.4	1.7	2.2	4.8
10	0.4	0.2	1.6	2.0	4.0
12 ⁽³⁾	0.3 (0.2)	0.1 (0.2)	1.2 (1.0)	1.7 (0.6)	3.4 (1.5)
14	0.2	0.2	0.7	0.5	1.4
16	0.1	0.2	0.4	0.5	1.2
18	0.1	0.2	0.2	0.4	1.1
20	0.1	0.2	0.1	0.4	1.0

Kv VALUES STEAM (kg/h) @ 1 bar overpressure

Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32
0.2	38	68	98	122	302
0.5 ⁽¹⁾	41 (35*)	74 (39)	110 (72)	137 (79)	339 (207)
0.8 ⁽¹⁾	46 (36*)	81 (42)	118 (80)	146 (88)	369 (232)
1.0	37*	42	81	94	248
1.5	39*	49	89	109	288
2.0 ⁽²⁾	41* (10*)	50 (56*)	102 (60)	124 (83)	328 (119)
2.5 ⁽²⁾	43* (8.5*)	53 (56*)	121 (67)	140 (93)	368 (134)
3.0	6.2*	57*	67	90	148
4.0	5.4*	58*	80	93	178
5.0	3.1*	60*	83	107	206
6.0	2.3	60*	94	102	206
7.0	<1	61*	93	114	231
8.0	<1	64*	88	127	256
9.0	<1	65*	96	111	240
10	<1	67*	87	121	262
12 ⁽³⁾	<1 (<1)	72* (<1)	81 (56*)	106 (108*)	304 (298*)
14	<1	<1	73*	104*	301*
16	<1	9*	94*	121*	313*
18	<1	15*	111*	139*	334*
20	<1	16*	134*	151*	350*

(1) Figures in brackets are with spring range 0.5 - 2.5 bar (2) Figures in brackets are with spring range 2 - 12 bar (3) Figures in brackets are with spring range 12 - 20 bar * Capacity at 2 bar overpressure