



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



The GOE-618YT is a compact overflow and pressure control valve designed for pump protection and bypass control applications with low to medium capacities.

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\*\*
- Suitable for low to medium 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  
(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")
L1	69	72	90	95
L2	87	95	111	126
h	26	30	35	43
H3	64	68	86	100
SW1	24	27	32	41
Weight Kg	0.3	0.4	0.7	1.2

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 (Nm<sup>3</sup>/h) @ 1 bar overpressure**

Set Pressure (bar)	DN10	DN15	DN20	DN25
0.2	49	85	125	158
0.5 <sup>(1)</sup>	52 (46*)	94 (50)	139 (90)	177 (99)
0.8 <sup>(1)</sup>	58 (47*)	104 (57)	152 (94)	191 (111)
1.0	49*	64	101	124
1.5	50*	66	118	141
2.0 <sup>(2)</sup>	54* (13*)	69 (72*)	131 (77)	162 (101)
2.5 <sup>(2)</sup>	56* (11*)	70 (72*)	155 (83)	179 (106)
3.0	8*	73*	91	118
4.0	7*	75*	98	127
5.0	4*	78*	108	136
6.0	3*	79*	112	147
7.0	<1	80*	115	154
8.0	<1	84*	116	151
9.0	<1	86*	118	146
10	<1	89*	121	141
12 <sup>(3)</sup>	<1 (<1)	95* (<1)	125 (74*)	133 (117*)
14	<1	<1	97*	139*
16	<1	5*	125*	162*
18	<1	38*	148*	186*
20	<1	65*	180*	202*

**Kv VALUES WATER (m<sup>3</sup>/h) @ 1 bar overpressure**

Set Pressure (bar)	DN10	DN15	DN20	DN25
0.2	1.6	2.7	3.6	5.1
0.5 <sup>(1)</sup>	1.7 (0.4)	2.9 (1.6)	3.8 (2.7)	5.4 (3.1)
0.8 <sup>(1)</sup>	1.7 (0.4)	3.0 (1.6)	4.1 (2.9)	5.7 (3.2)
1.0	0.4	1.7	3.1	3.3
1.5	0.4	1.8	3.2	3.6
2.0 <sup>(2)</sup>	0.5 (0.4)	1.8 (0.9)	3.3 (2.0)	3.8 (2.6)
2.5 <sup>(2)</sup>	0.5 (0.4)	1.9 (0.9)	3.5 (2.1)	4.1 (2.6)
3.0	0.4	0.8	2.1	2.7
4.0	0.4	0.8	2.1	2.8
5.0	0.4	0.8	2.1	2.9
6.0	0.4	0.7	2.2	2.8
7.0	0.5	0.6	2.2	2.7
8.0	0.4	0.5	2.0	2.4
9.0	0.4	0.4	1.7	2.2
10	0.4	0.2	1.6	2.0
12 <sup>(3)</sup>	0.3 (0.2)	0.1 (0.2)	1.2 (1.0)	1.7 (0.6)
14	0.2	0.2	0.7	0.5
16	0.1	0.2	0.4	0.5
18	0.1	0.2	0.2	0.4
20	0.1	0.2	0.1	0.4

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

Set Pressure (bar)	DN10	DN15	DN20	DN25
0.2	38	68	98	122
0.5 <sup>(1)</sup>	41 (35*)	74 (39)	110 (72)	137 (79)
0.8 <sup>(1)</sup>	46 (36*)	81 (42)	118 (80)	146 (88)
1.0	37*	42	81	94
1.5	39*	49	89	109
2.0 <sup>(2)</sup>	41* (10*)	50 (56*)	102 (60)	124 (83)
2.5 <sup>(2)</sup>	43* (8.5*)	53 (56*)	121 (67)	140 (93)
3.0	6.2*	57*	67	90
4.0	5.4*	58*	80	93
5.0	3.1*	60*	83	107
6.0	2.3	60*	94	102
7.0	<1	61*	93	114
8.0	<1	64*	88	127
9.0	<1	65*	96	111
10	<1	67*	87	121
12 <sup>(3)</sup>	<1 (<1)	72* (<1)	81 (56*)	106 (108*)
14	<1	<1	73*	104*
16	<1	9*	94*	121*
18	<1	15*	111*	139*
20	<1	16*	134*	151*

(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