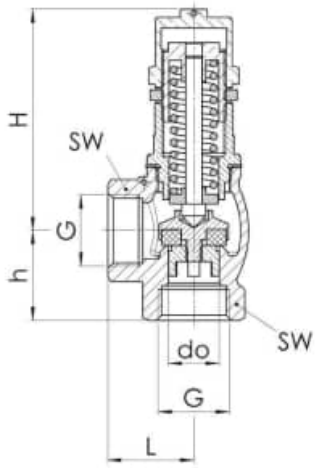

GOE-618

Bronze
Side Discharge
Overflow & Pressure
Control Valve
For Air, Oil, Steam & Water*

Standard Capacity

BSPP Female Threaded

The GOE-618 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 before despatch.

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 (½")	20 (¾")	25 (1")	32 (1¼")	40 (1½")	50 (2")
L	27	29	34	42	46	51	60
H	66	74	83	100	117	136	146
h	26	30	35	43	46	52	61
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 - 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

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GOE-618

Capacity Charts/Sizing

Kv VALUES AIR (Nm^3/h) @ 1 bar overpressure

Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	49	85	125	158	380	638	1125
0.5(1)	52 (46*)	94 (50)	139 (90)	177 (99)	428 (261)	696 (402)	1234 (576)
0.8(1)	58 (47*)	104 (57)	152 (94)	191 (111)	472 (284)	737 (436)	1356 (591)
1.0	49*	64	101	124	314	471	602
1.5	50*	66	118	141	370	546	825
2.0(2)	54* (13*)	69 (72*)	131 (77)	162 (101)	419 (161)	615 (188)	958 (308)
2.5(2)	56* (11*)	70 (72*)	155 (83)	179 (106)	479 (174)	677 (204)	1019 (347)
3.0	8*	73*	91	118	195	229	381
4.0	7*	75*	98	127	225	265	482
5.0	4*	78*	108	136	241	304	576
6.0	3*	79*	112	147	268	347	688
7.0	<1	80*	115	154	289	387	767
8.0	<1	84*	116	151	309	421	811
9.0	<1	86*	118	146	329	459	855
10	<1	89*	121	141	342	495	901
12(3)	<1 (<1)	95* (<1)	125 (74*)	133 (117*)	387 (395*)	567 (423*)	981 (472*)
14	<1	<1	97*	139*	401*	435*	578*
16	<1	5*	125*	162*	418*	458*	650*
18	<1	38*	148*	186*	447*	521*	687*
20	<1	65*	180*	202*	468*	595*	712*

Kv VALUES WATER (m^3/h) @ 1 bar overpressure

Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	1.6	2.7	3.6	5.1	11.4	17.8	28.9
0.5(1)	1.7 (0.4)	2.9 (1.6)	3.8 (2.7)	5.4 (3.1)	11.9 (7.3)	18.6 (11.1)	30.3 (15.1)
0.8(1)	1.7 (0.4)	3.0 (1.6)	4.1 (2.9)	5.7 (3.2)	12.7 (7.6)	19.4 (11.4)	31.2 (15.7)
1.0	0.4	1.7	3.1	3.3	8.0	12.1	16.3
1.5	0.4	1.8	3.2	3.6	8.5	13.0	17.2
2.0(2)	0.5 (0.4)	1.8 (0.9)	3.3 (2.0)	3.8 (2.6)	9.1 (4.1)	13.9 (4.9)	18.5 (6.9)
2.5(2)	0.5 (0.4)	1.9 (0.9)	3.5 (2.1)	4.1 (2.6)	9.8 (4.3)	14.89 (5.0)	19.5 (7.0)
3.0	0.4	0.8	2.1	2.7	4.4	5.2	7.3
4.0	0.4	0.8	2.1	2.8	4.6	5.3	7.6
5.0	0.4	0.8	2.1	2.9	4.9	5.5	7.9
6.0	0.4	0.7	2.2	2.8	5.0	5.6	8.5
7.0	0.5	0.6	2.2	2.7	5.1	5.8	9.0
8.0	0.4	0.5	2.0	2.4	5.4	5.8	9.4
9.0	0.4	0.4	1.7	2.2	4.8	5.8	9.8
10	0.4	0.2	1.6	2.0	4.0	5.9	10.2
12(3)	0.3 (0.2)	0.1 (0.2)	1.2 (1.0)	1.7 (0.6)	3.4 (1.5)	6.2 (3.1)	11.0 (2.8)
14	0.2	0.2	0.7	0.5	1.4	2.1	3.3
16	0.1	0.2	0.4	0.5	1.2	1.1	3.7
18	0.1	0.2	0.2	0.4	1.1	1.1	3.9
20	0.1	0.2	0.1	0.4	1.0	1.0	4.0

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

Set Pressure (bar)	DN10	DN15	DN20	DN25	DN32	DN40	DN50
0.2	38	68	98	122	302	498	885
0.5(1)	41 (35*)	74 (39)	110 (72)	137 (79)	339 (207)	544 (318)	969 (471)
0.8(1)	46 (36*)	81 (42)	118 (80)	146 (88)	369 (232)	575 (355)	1054 (527)
1.0	37*	42	81	94	248	362	564
1.5	39*	49	89	109	288	420	618
2.0(2)	41* (10*)	50 (56*)	102 (60)	124 (83)	328 (119)	455 (144)	705 (249)
2.5(2)	43* (8.5*)	53 (56*)	121 (67)	140 (93)	368 (134)	510 (161)	791 (279)
3.0	6.2*	57*	67	90	148	179	309
4.0	5.4*	58*	80	93	178	214	370
5.0	3.1*	60*	83	107	206	248	430
6.0	2.3	60*	94	102	206	283	490
7.0	<1	61*	93	114	231	317	549
8.0	<1	64*	88	127	256	352	609
9.0	<1	65*	96	111	240	322	557
10	<1	67*	87	121	262	350	606
12(3)	<1 (<1)	72* (<1)	81 (56*)	106 (108*)	304 (298*)	326 (319*)	705 (356*)
14	<1	<1	73*	104*	301*	327*	434*
16	<1	9*	94*	121*	313*	343*	487*
18	<1	15*	111*	139*	334*	390*	514*
20	<1	16*	134*	151*	350*.	445*	532*

(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

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