



Overflow valve without auxiliary power, Model T26

The function of upstream pressure regulators (safety overflow valves, pressure retaining valves) is, that the outflow of the medium at a specific pressure, with an existing counter pressure or vacuum having no effect on the set over pressure (retaining pressure).

Overflow pressure > counter pressure

The above listed items are characteristic for an upstream pressure regulator, by comparison to a normal safety valve. The safety valve is only a device to prevent a specific pressure from being exceeded (actuation pressure).

Upstream pressure regulators, our model T26, are single-seat valves and are especially suitable for incompressible media, for example water, oil, etc. The valves are fully relieved so that the counter pressure has no effect on the set overflow pressure, only the overflow quantity changes according to the counter pressure. The external seal is generally produced by an o-ring. The valves have no stuffing box and are maintenance free.

An additional major factor is the fact, that safety valves tend to chatter with incompressible media. Even where protection against a specific pressure is required for incompressible media, preference should be given to the upstream pressure regulator rather than the safety valve. The control behaviour of the upstream pressure regulator is proportional.

A continuous small amount of the medium, about 10% of the maximum flow rate, should flow through the valve, so as to protect the seat and cone, and raise the sensitivity when the load changes.

Upstream pressure regulators for incompressible media close in the event of a pressure drop within 20 %. Below 3 bar setting pressure, within a pressure drop of 0.3 bar.

The mass flow of overflow valves is listed in the table on page 4, where by the following must be observed :

Overflow pressure - counter pressure = differential pressure Δp

In addition, the velocity of the medium in the piping must be checked (the effects of the viscosity must be separately taken into account). Normally, with water the velocity in the piping should not exceed 2 m/s. Decisive for the valve size to be selected is almost always the velocity in the piping, where the use of upstream pressure regulators are concerned (mass flow table line 2 m/s). With small differential pressures, the mass flow quantity is above the 2 m/s line.

Versions :

2.1050 / CC480K-GS

DIN PN16

- Seat, cone, guide cone, spindle in bronze

The valves can be supplied with classification society acceptance.

Test Report based on DIN EN 10 204 - 2.2

Inspection certificate DIN EN 10 204 - 3.1 & 3.2



Overflow valve T26

Without auxiliary power, for liquids and gas
PN16 DN15-200

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For enquiries and orders we would like the following details:
Overflow pressure, counter pressure, maximum and minimum mass flow, medium, temperature, viscosity, possible present piping diameter.

Spring

DN15/20

pressure to response	16	10	6,3	4	2,5	1,6	1	0,63	Do = Ø 20
spring-No.	109	108	107	106	105	104	103	102	

DN25

pressure to response	16	10	6,3	4	2,5	1,6	1	0,63	Do = Ø 25
spring-No.	4	109	108	107	106	105	104	103	

DN32

pressure to response	16	10	6,3	4	2,5	1,6	1	0,63	Do = Ø 32
spring-No.	3	4	109	108	107	106	105	104	

DN40

pressure to response	16	10	6,3	4	2,5	1,6	1	0,63	Do = Ø 40
spring-No.	3	4	5	6	7	8	9	10	

DN50

pressure to response	16	10	6,3	4	2,5	1,6	1	0,63	Do = Ø 50
spring-No.	2	3	4	5	6	7	8	9	

DN65

pressure to response	16	10	6,3	4	2,5	1,6	1	0,63	Do = Ø 70
spring-No.	22	23	24	25	26	27	28	29	

DN80

pressure to response	16	10	6,3	4	2,5	1,6	1	0,6	Do = Ø 80
spring-No.	21	22	23	24	25	26	27	28	

DN100

pressure to response	16	10	6,3	4	2,5	1,6	1	0,6	Do = Ø 100
spring-No.	32	33	34	35	36	37	38	39	

DN125

pressure to response	16	10	6,3	4	2,5	1,6	1	0,6	Do = Ø 125
spring-No.	42	32	33	34	35	36	37	38	

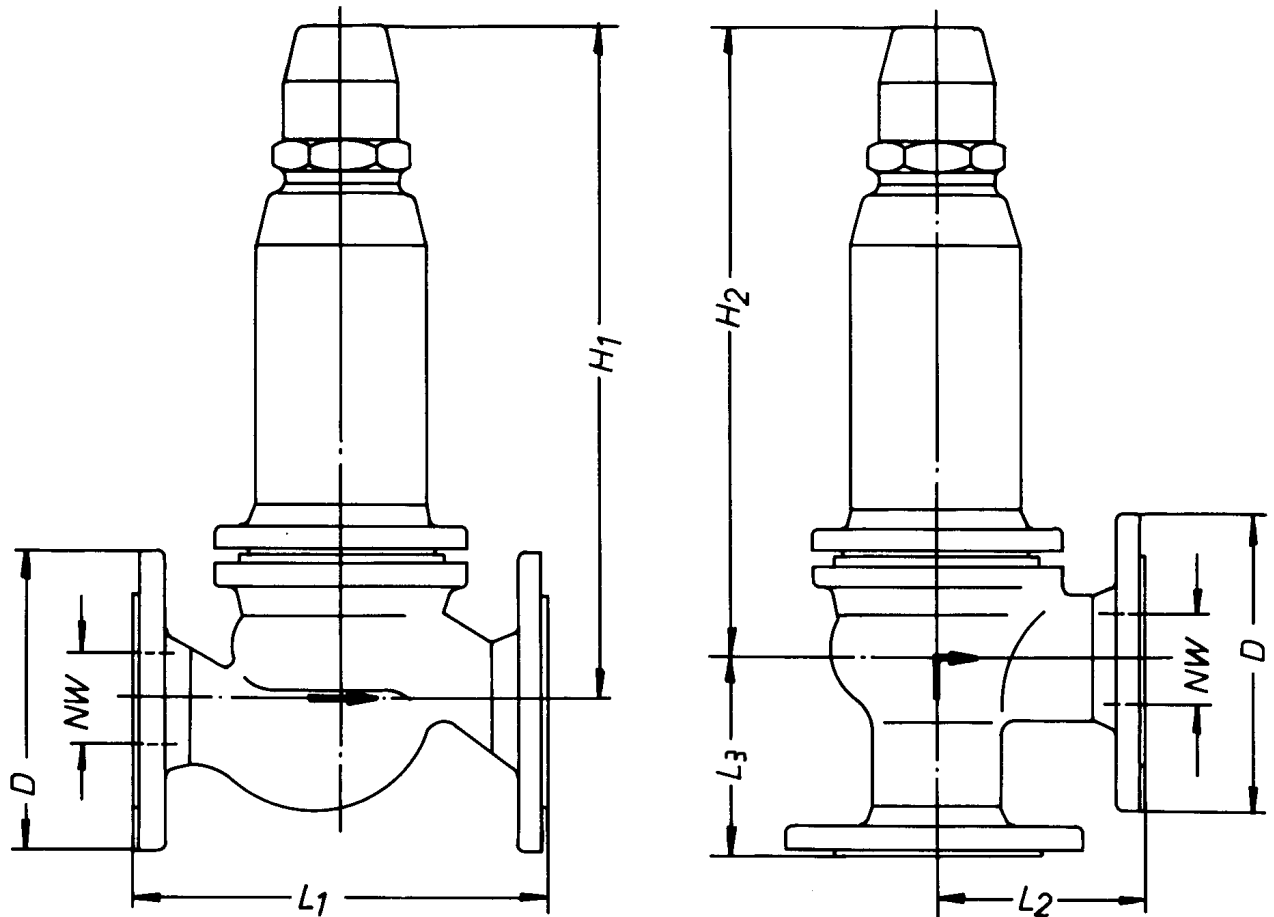
DN150

pressure to response	16	10	6,3	4	2,5	1,6	1	0,6	Do = Ø 150
spring-No.	41	42	32	33	34	35	36	37	

DN200

pressure to response	10	6,3	4	2,5	1,6	1	0,6	Do = Ø 210
spring-No.	41	42	43	44	45	46	47	

Model T26



DN	flanges DIN PN16				flanges ANSI B 16.5				L1	L2	H1	H2
	D	k	z	i	D	k	z	i				
15	95	65	4	14	88,9	60,3	4	15,9	130	90	240	210
20	105	75	4	14	98,4	69,8	4	15,9	150	95	245	215
25	115	85	4	14	108,0	79,4	4	15,9	160	100	250	215
32	140	100	4	18	117,5	88,9	4	15,9	180	105	255	215
40	150	110	4	18	127,0	98,4	4	15,9	200	115	330	295
50	165	125	4	18	152,4	120,6	4	19	230	125	345	310
65	185	145	4	18	177,8	139,7	4	19	290	145	585	585
80	200	160	8	18	190,5	152,4	4	19	310	155	610	610
100	220	180	8	18	228,6	190,5	8	19	350	175	610	610
125	250	210	8	18	254,0	215,9	8	22,2	400	200	715	715
150	285	240	8	22	279,4	241,3	8	22,2	480	225	755	755
200	340	295	12	22	342,9	298,4	8	22,2	600	275	756,5	756,5

Dimensions in mm



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Mass flow table for water quantity in t/h for 20°C

	Δp [bar]	DN											
		15	20	25	32	40	50	65	80	100	125	150	200
Kv > 2 m/s	0,5	0,57	1,02	1,59	2,60	4,07	6,36	10,74	16,27	25,42	39,72	57,20	101,69
	1,0	0,81	1,44	2,25	3,68	5,75	8,99	15,19	23,01	35,95	56,18	80,89	143,81
	1,5	0,99	1,76	2,75	4,51	7,05	11,01	18,60	28,18	44,03	68,80	99,08	176,13
	2,0	1,14	2,03	3,18	5,21	8,14	12,71	21,48	32,54	50,85	79,45	114,40	203,38
	2,5	1,28	2,27	3,55	5,82	9,10	14,21	24,02	36,38	56,85	88,82	127,91	227,39
	3,0	1,40	2,49	3,89	6,38	9,96	15,57	26,31	39,85	62,27	97,30	140,11	249,10
	3,5	1,51	2,69	4,20	6,89	10,76	16,82	28,42	43,05	67,63	105,10	151,34	269,05
	4,0	1,62	2,88	4,49	7,36	11,50	17,98	30,38	46,02	71,91	112,35	161,79	287,62
	4,5	1,72	3,05	4,77	7,81	12,20	19,07	32,22	48,81	76,27	119,17	171,60	305,07
	5,0	1,81	3,22	5,02	8,23	12,86	20,10	33,97	51,45	80,39	125,61	180,89	321,57
	6,0	1,98	3,52	5,50	9,02	14,09	22,02	37,21	56,36	88,07	137,60	198,15	352,27
	7,0	2,14	3,80	5,95	9,74	15,22	23,78	40,19	60,88	95,12	148,63	214,03	380,49
	8,0	2,29	4,07	6,36	10,41	16,27	25,42	42,96	65,06	101,69	158,89	228,80	406,76
	9,0	2,46	4,31	6,74	11,04	17,26	26,97	45,57	69,03	107,86	168,53	242,68	431,44
	10,0	2,56	4,55	7,11	11,64	18,19	28,42	48,04	72,76	113,69	177,65	255,81	454,77
	11,0	2,68	4,77	7,45	12,21	19,08	29,81	50,38	76,32	119,24	186,32	268,30	
	12,0	2,80	4,98	7,78	12,75	19,93	31,14	52,62	79,71	124,55	194,60	280,23	
	13,0	2,92	5,19	8,10	13,47	20,74	32,41	54,77	82,96	129,63	202,55	291,67	
	14,0	3,03	5,38	8,41	13,78	21,52	33,63	56,84	86,10	134,52	210,19	302,68	
	15,0	3,13	5,57	8,70	14,26	22,28	34,81	58,83	89,12	139,25	217,57	313,30	
16,0	3,24	5,75	8,99	14,73	23,01	35,95	60,76	92,04	143,81	224,71	323,58		
17,0	3,34	5,93	9,26	15,18	23,72	37,06	62,63	94,87	148,24	231,62			
18,0	3,43	6,10	9,53	15,62	24,41	38,13	64,45	97,62	152,54	238,34			
19,0	3,53	6,27	9,79	16,05	25,07	39,18	66,21	100,30	156,72	244,87			
20,0	3,62	6,43	10,05	16,46	25,73	40,20	67,93	102,90	160,79	251,23			
22,0	3,79	6,75	10,54	17,27	26,98	42,16	71,25	107,93	168,63	263,49			
24,0	3,96	7,05	11,01	18,04	28,18	44,03	74,42	112,73	176,13	275,21			
26,0	4,12	7,33	11,46	18,77	29,33	45,83	77,46	117,33	183,33				
28,0	4,28	7,61	11,89	19,48	30,44	47,56	80,38	121,76	190,25				
30,0	4,43	7,88	12,31	20,16	31,51	49,23	83,20	126,03	196,92				
32,0	4,58	8,14	12,71	20,83	32,54	50,85	85,93	130,16	203,38				
34,0	4,72	8,39	13,10	21,47	33,54	52,41	88,57	134,17	209,64				
36,0	4,85	8,63	13,48	22,09	34,51	53,93	91,14	138,06	215,72				
38,0	4,99	8,87	13,85	22,69	35,46	55,41	93,64	141,84	221,63				
40,0	5,12	9,10	14,21	23,28	36,38	56,85	96,07	145,53	227,39				