

Overflow valve angle-type type UV14/15



description:

Overflow valves angle-type are used for the protection of pumps against overloading in closed circuits.

product features:

- suitable for neutral and non-neutral **liquids & gaseous media**
- with bellows through which gastight spring and moving parts are protected from being affected by the medium
- **counter pressure compensated up to 4 bar**
- can be adjusted under operating conditions
- medium cannot escape into the environment

diameter:

1/2" - 2"

temperature:

-60°C up to +225°C

pressure:

0,5 bar – 25,0 bar

design:

body material:

material internal parts:

seal:

bellow:

spring:

position:

set pressure:

connection:

overflow valve with bellows

gunmetal Rg5 CC499K

stainless steel 1.4408

stainless steel 1.4404

PTFE

stainless steel 1.4571

stainless steel 1.4310

preferably vertical

0,5 – 25 bar (depends on spring)

adjustment over handwheel

female thread BSP-P

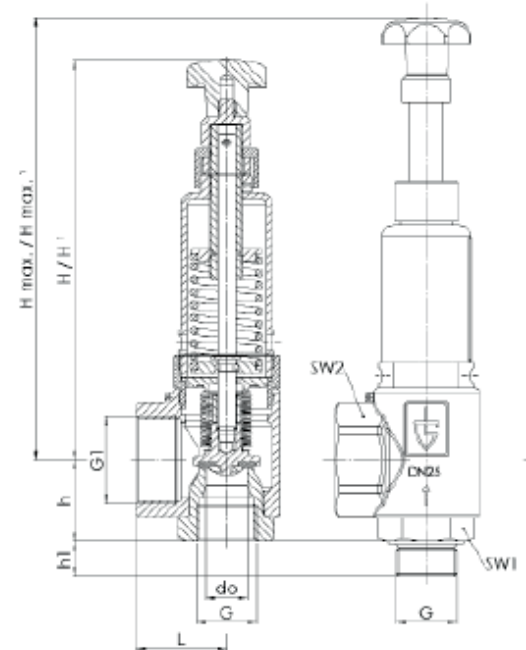
Typ UV14

Typ UV15

dimensions:

diameter DN	15	20	25	32	40	50
connection G*	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
outlet G1*	1"	1 1/4"	1 1/2"	2"	2"	2"
L	40	43	50	61	61	61
H	102	170	223	318	318	318
H max.	120	190,5	248,5	344	344	344
H1	76	152,5	193	263	263	263
H	30	39	45	55	69	74
h1	16	14	19	21	22,5	25
SW1	30	36	46	55	55	70
SW2	40	50	58	70	70	70
Do	16	18	23	30	30	30
weight kg	0,5	1,0	2,0	4,2	4,5	4,7
set pressure	in bar	in bar	in bar	in bar	in bar	in bar
spring 01	0,5-0,9	0,5-1	0,5-0,9	0,5-0,9	0,5-0,9	0,5-0,9
spring 02	1-1,3	1-1,6	0,9-1,5	1-1,3	1-1,3	1-1,3
spring 03	1,3-2,9	1,6-2,8	1,5-2	1,4-3	1,4-3	1,4-3
spring 04	2,9-3,9	2,8-5,3	2,1-4,5	3,1-5,5	3,1-5,5	3,1-5,5
spring 05	3,9-7,9	5,4-10	4,6-8	5,6-11	5,6-11	5,6-11
spring 06	8-11,5	10-12	8,1-14	11-16	11-16	11-16
spring 07	11-16	12-25	14-25	16-25	16-25	16-25
spring 08	16-25	--	--	--	--	--

* thread / connection according to DIN EN ISO 228



installation and assembly:

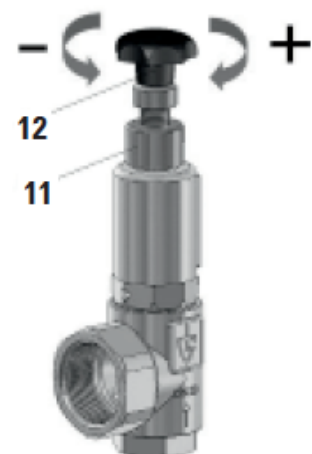
To ensure a satisfactory operation of the valves they must be assembled in such a way that the safety valve is not exposed to any impermissible static, dynamic or thermal loads. The installation has to be flushed before installing the valve. If an installation is not sufficiently cleaned or the valve is installed improperly the valve may leak even the first time it responds. Appropriate safety measures must be taken at the place of installation of the valves if the medium that discharges upon actuation of the valve can lead to direct or indirect hazards to people or the environment. Overflow valves can be installed in any position. The function of the valves is guaranteed in every position. During assembly always make sure not to apply any force when fastening the connecting thread and not to screw it in too far as this could otherwise damage the seat of the valve. Do not allow sealing material such as hemp or teflon to penetrate into the valve.

setting:

The valves can be delivered with a set pressure and sealed by the factory or without set pressure with the desired range of adjustment. Valves which have been set and sealed by the factory are marked with the set pressure. Before changing the set pressure the seal has to be removed. If valves are unsealed, the desired pressure can be set within the pressure range of the spring.

1. Release counter-nut (11)
 2. Carry out pressure adjustment at handwheel (12)
- > turning clockwise increases pressure, turning anticlockwise decreases pressure.

The setting can be secured by means of a seal.



structure article number:

type	range of adjustment	connection	diameter
UV14 - gunmetal UV15 – stainless steel	01 – spring 01 02 – spring 02 03 – spring 03 04 – spring 04 05 – spring 05 06 – spring 06 07 – spring 07 08 – spring 08 see table dimensions	00 – female thread	03 – 1/2" 04 – 3/4" 05 – 1" 06 – 1 1/4" 07 – 1 1/2" 08 – 2"

Example no. UV15030005:
UV15

03 | **00** | **05**

article no. UV14030005
overflow valve made of stainless steel
pressure: 1,5 - 2,0 bar
connection: Innengewinde BSP-P
diameter: 1 "

capacity table:

Kv values at 1 bar overpressure

DN	15								
	1: Air (Nm ³ /h) 2: Water (m ³ /h) 3: Steam (kg/h)								
(bar)	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
0,5	120 4,4 97								
0,7	135 4,6 110								
0,9	150 5 127								
1,0		105 4,8 81							
1,1		116 4,9 94							
1,3		133 5,2 106	124 4,1 96						
2,1			134 4,4 85						
2,9			148 5,2 111	120 5,1 96					
3,4				139 5,2 106					
3,9				154 5,3 121	86 3,1 67				
5,9					106 3,7 81				
7,9					135 3,9 100				
8,0						142 3,6 101			
9,7						140 2,7 118			
11,0						138 2,4 111	28 2,2 26		
11,5						137 2,3 109	39 2,1 32		
13,5							73 1,7 47		
16,0							96 1,2 72	67 1,4 54	
20,5								125 1,3 90	
25,0								184 1,1 134	

Kv values at 1 bar overpressure

DN	20																							
	1: Air (Nm ³ /h) 2: Water (m ³ /h) 3: Steam (kg/h)																							
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
(bar)	0,5 - 1,0			1,0 - 1,6			1,6 - 2,8			2,8 - 5,3			5,4 - 10,0			10,0 - 12,0			12,0 - 25,0					
0,5	275	8,6	214																					
0,7	295	9,1	227																					
1,0	327	9,6	256	309	9,2	240																		
1,3				344	9,5	267																		
1,6				368	10	281	333	8,8	262															
2,2							379	9,5	293															
2,8							428	10,4	327	365	8,3	282												
4,1										482	9,6	357												
5,3										541	10,2	416												
5,4													420	7,9	323									
7,7													562	10,7	434									
10,0													685	14,3	518	497	11	393						
11,0																526	11,6	374						
12,0																558	11,8	420	326	5,3	238			
18,5																			423	3,1	319			
25,0																			606	1,6	453			

Kv values at 1 bar overpressure

DN	25																							
	1: Air (Nm ³ /h) 2: Water (m ³ /h) 3: Steam (kg/h)																							
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
(bar)	0,5 - 0,9			0,9 - 1,5			1,5 - 2,0			2,1 - 4,5			4,6 - 8,0			8,14 - 14,0			14,0 - 25,0					
0,5	503	13,6	393																					
0,7	543	14,3	424																					
0,9	592	15,1	462	586	14,6	455																		
1,2				655	15,1	508																		
1,5				726	15,8	562	697	14,9	539															
1,8							783	15,7	592															
2,0							836	16,3	631															
2,1										748	15,3	584												
3,3										985	17,5	751												
4,5										122	19,8	931												
4,6													784	15,6	601									
6,3													109	18,1	823									
8,0													151	21,7	113									
8,1																120	17,7	904						
11,1																155	22,3	114						
14,0																209	22,7	156	805	13,8	612			
19,5																			110	15,2	818			
25,0																			117	17,2	854			

Kv values at 1 bar overpressure

DN	32 / 40 / 50																				
	1: Air (Nm ³ /h)			2: Water (m ³ /h)			3: Steam (kg/h)														
	1	2	3	1	2	3	1	2	3												
(bar)	0,5 - 0,9			1,0 - 1,3			1,4 - 3,0			3,1 - 5,5			5,6 - 11,0			11,0 - 16,0			16,0 - 25,0		
0,5	844	23,3	660																		
0,7	915	24,8	712																		
0,9	986	26,1	775																		
1,0				100	26,9	711															
1,1				106	28,1	734															
1,3				112	28,8	792															
1,4							118	27,4	827												
2,2							140	30,0	986												
3,0							166	32,0	115												
3,1										140	26,5	984									
4,3										169	28,0	118									
5,5										184	31,1	126									
5,6													132	24,3	922						
8,3													189	28,7	126						
11,0													249	36,4	169	191	27,8	132			
13,5																217	34,6	145			
16,0																259	35,6	168	124		
20,5																			215		
25,0																			233		

Image similar, subject change without notice.