

Overflow valve TYPE UV13



Specification:

Flange-Overflow valves for the protection of pumps against overloading in closed circuits.

Product features:

- suitable for neutral and non-neutral liquids, gaseous media and for steam.
- Can be set and adjusted during the operating conditions
- TA Air TUV-No. 922-9241371
- Free of maintenance
- Standard with bellow seal
- Installation in upright position, bonnet showing upwards

Connection:

DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100

Temperature:

-10°C to +450°C
depending on design

Pressure range:

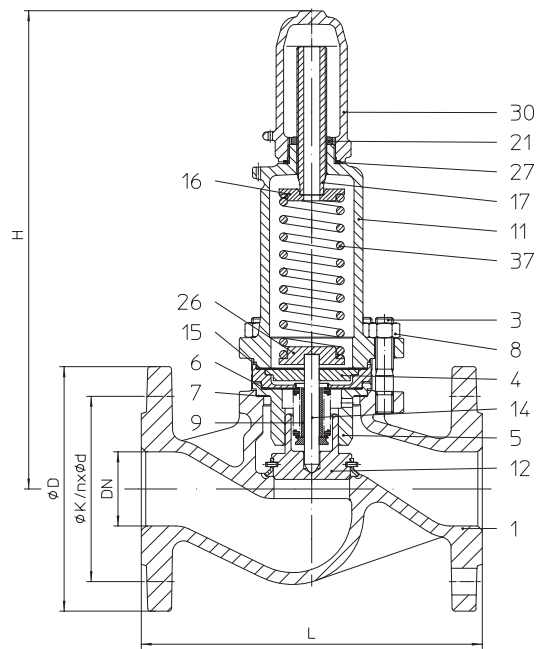
0,5 bar – 10,0 bar
depending on design

Pressure-temperature-ratings:

Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

acc. DIN EN 1092-2		-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-JL1040	16 bar	16	14,4	12,8	11,2	9,6	--	--	--
EN-JL1049	16 bar	16	15,5	14,7	13,9	12,8	11,2	--	--
acc. company standard		-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	25 bar	25	23,9	22	20	17,2	16	14,8	8,2
acc. DIN EN 1092-1		-10°C to 100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.4408	16 bar	16	14,5	13,4	12,7	11,8	11,4	10,9	--

Dimensions:



Diameter DN	15	20	25	32	40	50	65	80	100
Face-to-Face acc. FTF series 1 according to DIN EN 558									
L in mm	130	150	160	180	200	230	290	310	350
H in mm	230	230	290	300	325	330	400	440	500
Kvs-value m ³ /h	2	2,5	3	5	10	20	22	29	45
Seat- Ø mm	21	21	27	31	41	51	66	81	101
Travel in mm	2	2	2,5	2,5	4	5,5	7	8	10
Leakage	Leakage rate IV acc. to DIN EN 1349 ($\leq 0,01\%$ from the nominal flow)								
weight	3,6	4,1	6,6	7,7	10,4	12,9	20,2	28,9	43,7
Flange	Flange acc. DIN 1092-1/-2								
PN16	ØD	95	105	115	140	150	165	185	220
	ØK	65	75	85	100	110	125	145	180
	N x Ød	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18

Materials:

Pos.	Item	UV13 grey cast iron	UV13 ductil iron	UV13 carbon steel	UV13 stainless steel
1	Body	EN-JL1040	EN-JS1049	1.0619	Stainless steel 1.4408
1.2	Seat	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ	--
3	Stud	1.7218	1.7218	1.7281	A4-70
4	Stem guide	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ
5	Guide housing	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ	1.4571
6	Gasket	Pure graphite	Pure graphite	Pure graphite	Pure graphite
7	Gasket	Pure graphite	Pure graphite	Pure graphite	Pure graphite
8	Hexagon nut	C35E	C35E	C35E	A4
9	Travel limiter	1.4571	1.4571	1.4571	1.4571
11	Bonnet	EN-JL1040	EN-JS1049	EN-JS1049	1.4408
12	Plug unit	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ
14	Stem unit	1.4571	1.4571	1.4571	1.4571
15	Gasket	Pure graphite	Pure graphite	Pure graphite	Pure graphite
16	Spring plate	1.4571	1.4571	1.4571	1.4571
17	Adjusting screw	X20Cr13+QZ	X20Cr13+QZ	X20Cr13+QZ	1.4571
21	Lock nut	1.0715+C	1.0715+C	1.0715+C	1.4571
26	Spring plate	1.4571	1.4571	1.4571	1.4571
30	Cap gastight	EN-JS1049	EN-JS1049	EN-JS1049	1.4571
37	Compressions spring	FDSiCr	FDSiCr	FDSiCr	FDSiCr

Max. permissible back pressure p2		(Observe pressure-temperature-limits)								
DN		15	20	25	32	40	50	65	80	100
Setting range Δp_0	Set point Δp_0	max. permissible back pressure p2								
in bar										
0,5 – 1,5	0,5	4,5	4,5	6,9	6,4	6,6	9,5	4,9	6,7	5,9
	1,0	3	3	5,4	4,4	4,7	6,5	3,3	4,9	4,2
	1,5	1,5	1,5	3,9	2,4	2,7	3,5	1,7	3,1	2,5
1,0 – 3,0	1,0	8	8	10,6	11,2	9,9	14	7	7,7	6,8
	2,0	5	5	7,6	7,2	6	10,4	3,8	4,2	3,5
	3,0	2	2	4,6	3,2	2	6,8	0,5	0,6	0,1
2,0 – 5,0	2,0	8	8	12	12	12	12	11,3	10,8	10,2
	3,0	5,8	5,8	9,3	9,2	8,4	9,8	8,1	7,2	6,8
	4,0	3,7	3,7	6,6	6,5	4,9	7,7	4,8	3,7	3,5
	5,0	1,5	1,5	3,9	3,7	1,3	5,5	1,6	0,1	0,1
4,0 – 10,0	4,0	10	10	8	8	8	8	8	8	8
	6,0	7	7	5,7	5,7	5,7	5,7	5,7	5,7	5,7
	8,0	4	4	3,3	3,3	3,3	3,3	3,3	3,3	3,3
	10,0	1	1	1	1	1	1	1	1	1

Options (on request):

- Angle seat version
- Angle version
- ANSI version
- Manual override
- Plug design in PTFE (max. 200°C)

Structure Article number:

Design	Pressure range	Materials	Size
UV13	01 – 0,5-1,5 bar	01 – grey cast iron	03 – DN15
	02 – 1,0-3,0 bar	02 – ductil Iron	04 – DN20
	03 – 2,0-5,0 bar	03 – carbon steel	05 – DN25
	04 – 4,0-10,0 bar	04 – stainless steel	06 – DN32
			07 – DN40
			08 – DN50
			09 – DN65
			10 – DN80
			11 – DN100

Example No. UV13010104:

UV13	01	01	04
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Article No. UV13010104
Overflow valve made of grey cast iron
Pressure range: 0,5 – 1,5 bar
Connection: Flange
Size: DN 20

Image similar, subject change without notice.