mbar overflow valve UV17 | UV18

Description:

Overflow valves are used to relieve and/or regulate pressure chambers or to protect pressure systems in the event of overpressure.

Product features:

- Suitable for **air and neutral gases** of Group 2, Article 13 of the Pressure Equipment Directive 2014/68/EU
- Pressure gauge connection G 1/4" inch on both sides (for back pressure)
- Stepless adjustment of the back pressure
- Back pressure compensation
- Suitable for tank blanketing applications
- Sensitive control behavior during dynamic pressure fluctuations
- High flow capacity

Connection:
DN15, DN20, DN25, DN32, DN40, DN50

Temperature:
-30°C to +180°C
depending on model

Pressure:
Max. inlet pressure: 1.5 bar
Range of adjustment: 7 – 500 mbar
depending on model

Compliant with Pressure Equipment Directive 2014/68/EU

Design:	Diaphragm-controlled overflow valve		
Housing material:	Stainless steel CF8M / AISI 316L		
Spring cap:	Stainless steel CF8M / AISI 316L		
Diaphragm / Seals:	**TYPE UV17**	FKM / PTFE	-10°C to +180°C
	TYPE UV18	EPDM*/PTFE	-30°C to +120°C
Internal parts:	Stainless steel 1.4404 (parts in contact with medium) / AISI 316L		
Installation position:	horizontal		
Nominal pressure:	PN10		
Connection:	Female thread according to ISO 228		
	NPT thread ASME B1.20.1		
	Flange DIN EN 1092 PN 40		
	Flange according to ANSI 150 B16.5 RF		

Pressure ranges:	**Range of adjustment**	**Inlet pressure**
Spring 00	7 to 100 mbar	1.5 bar
Spring 01	50 to 500 mbar	1.5 bar

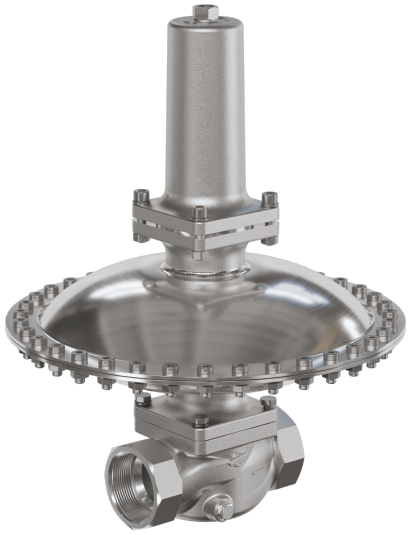
***Note:** The EPDM seals are **FDA-compliant** and can therefore also be used in the food industry.

Dimensions:

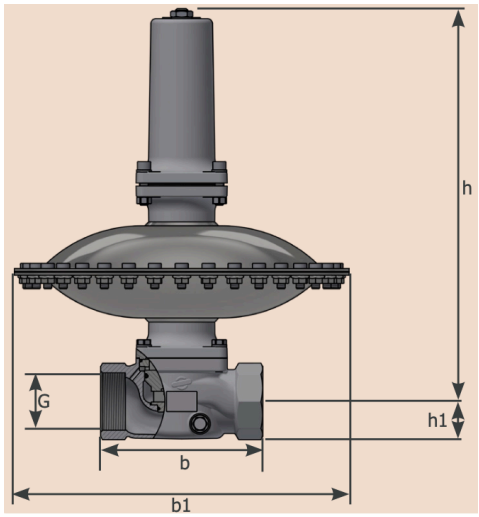
Diameter DN	15	20	25	32	40	50
Female thread ISO 228 (G)	1/2	3/4	1	1 1/4	1 1/2"	2
b1 in mm	280	280	280	280	330	330
b in mm	95	95	110	120	150	160
h1 in mm	29	29	39	39	37	37
h in mm	261	261	267	267	388	388
Weight kg	7.1	7.1	8.0	8.0	14.8	14.6
Flange connection DIN EN 1092	PN40	PN40	PN40	PN40	PN40	PN40
b1 in mm	280	280	280	280	330	330
b in mm	130	150	160	180	20	230
h1 in mm	48	53	58	70	75	83
h in mm	261	261	267	267	388	388
D in mm	95	105	115	140	150	165
Weight kg	8.5	9.3	10.3	11.5	18.4	20.2
Kvs value m³/h	4.7	6.2	7.2	7.9	13.5	13.8

With female thread:

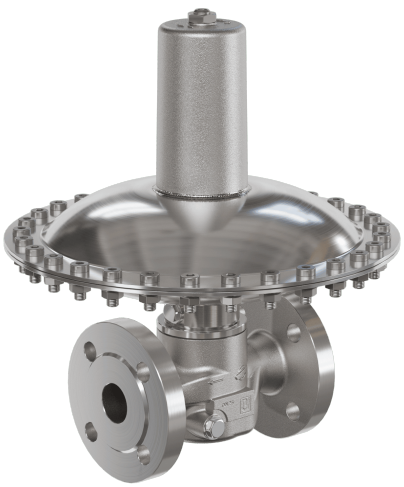
1/2" – 1 1/4"



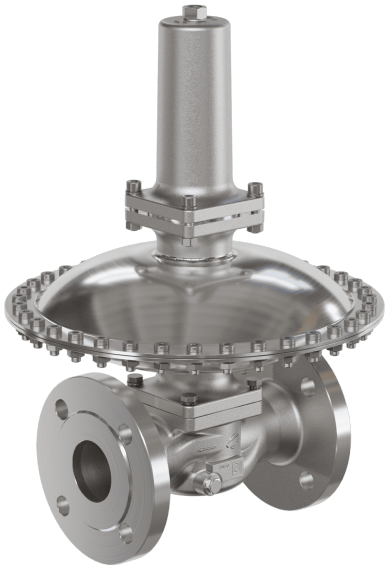
1 1/2" – 2"



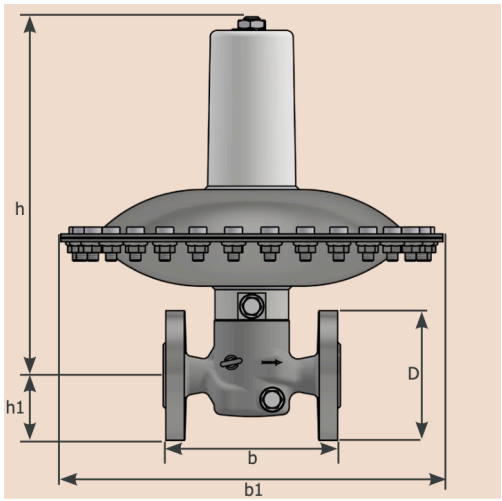
With flange connection:



DN15 – DN32



DN40 – DN50



Advantages in tank blanketing* practice:

- Stable tank venting control without pressure surges
- Prevention of overpressure peaks during temperature and volume changes
- Safe inert gas overpressure (protection against oxygen, germs, and dust)
- Protection against explosion, oxidation, and contamination
- Lower inert gas consumption, as the valve only opens when needed
- Protection of sensitive media through constant control in the lower pressure range

The series was specially developed to compensate for dynamic pressure fluctuations in inert gas and tank blanketing* applications with the utmost precision, thereby reliably protecting processes, products, and systems.

*Tank blanketing is also referred to as tank overlay or tank inerting

Options (on request):

- Impulse line for exact pressure transmission
- Classification according to DNV / GL / ABS / CCS / LR / BV

Article number:

Type	Range of adjustment	Connection	Size
UV17 – FKM / PTFE	**00 – 7 to 100 mbar**	**00 – Female thread ISO228**	03 – DN15 / 1/2"
UV18 – EPDM / PTFE	01 – 50 to 500 mbar	01 – NPT thread ASME B1.20.1	04 – DN20 / 3/4"
		02 – Flange according to DIN EN 1092 PN 40	05 – DN25 / 1"
			06 – DN32 / 1 1/4"
		03 – Flange according to ANSI 150 B16.5 RF	**07 – DN40 / 1 1/2"**
			08 – DN50 / 2"

Example No. UV17000007:

UV17	**00**	**00**	**07**

Millibar overflow valve made of stainless steel

Range of adjustment:	7 to 100 mbar
Seal:	FKM / PTFE
Connection:	Female thread according to ISO 228
Size:	DN40

Illustration similar, subject to technical and dimensional changes.