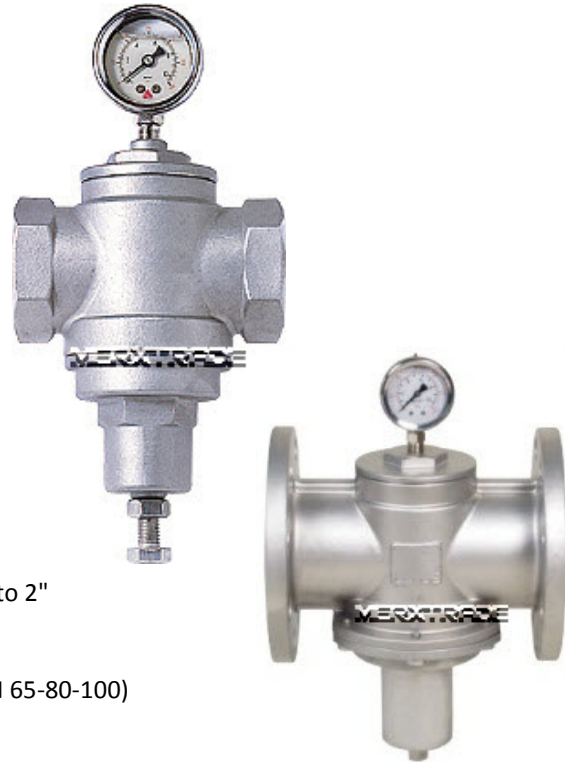


BPV ELITE type STAINLESS STEEL OVERFLOW VALVE

CHARACTERISTICS

The BPV Elite stainless steel overflow valve is dedicated to the flow regulation and pressure maintenance in pipes carrying fluids such as water, air, liquids and compatible gases. It is typically used downstream from the pumps to stabilize the pressure. It has a stainless steel construction with FKM tightness. The upstream pressure can be adjusted with the screw and can be checked thanks to the pressure gauge.

This device only works in the direction indicated by the arrow marked on the body. Finally, it is suitable for clean fluids with no particles and has to be protected by a filter upstream.



AVAILABLE ITEMS

BPV stainless steel BSP threaded female connections 1/2" to 2"

BPV stainless steel flanged connections DN15 to DN100

Upstream pressure adjustment range: 1-5 bar, 4-10 bar

8-13 bar (except DN 65-80-100)

EC 97/23 PRESSURE DIRECTIVE CATEGORY

Excluded (Article 3, § 3) – Prohibited use on gases from group 1

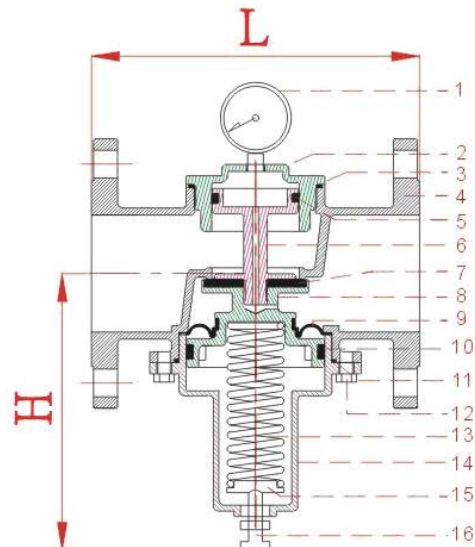
LIMITS OF USE

Min. / max. allowable temperature (TS)	-15 °C / +100 °C
Max. allowable pressure (PS)	16 bar
Min. upstream pressure	1 bar
Max. upstream pressure	13 bar

CONSTRUCTION

For flanged and threaded overflow valves. Only #12 is not applicable for flanged overflow valves.

1	Pressure gauge	Stainless steel – 1/4"
2	Cover	Stainless steel 316
3	O ring	FKM
4	Body	Stainless steel 316
5	O ring	FKM
6	Stem	Stainless steel 316
7/8	Clack	Stainless steel 316 / FKM
9	Diaphragm	FKM
10	O ring	FKM
11	O ring	FKM
12	Screw	Stainless steel 304
13	Spring	Spring steel
14	Spring rod	Stainless steel 316
15	Spring base	Brass
16	Adjustment screw	Stainless steel 304



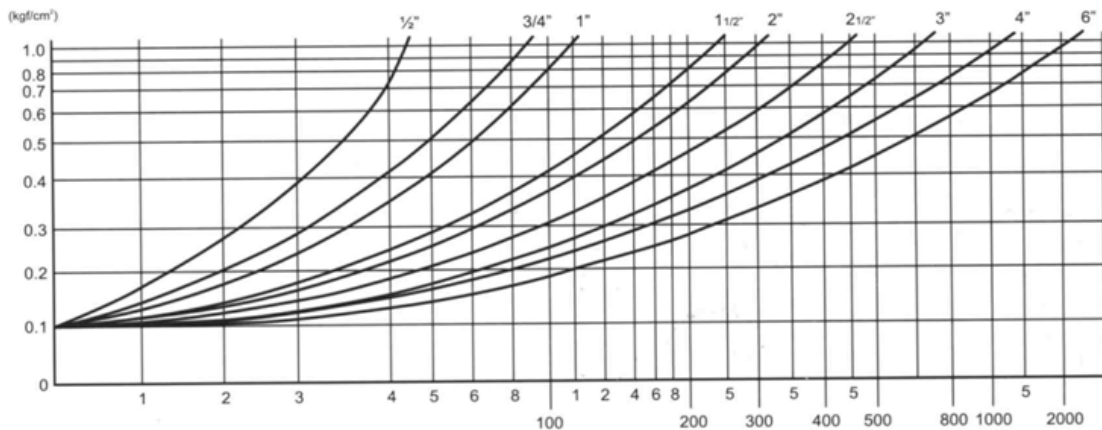
BPV ELITE type STAINLESS STEEL OVERFLOW VALVE

DIMENSIONS

DN	H (mm)	L (mm)	Kv
1/2"	80	70	2.05
3/4"	105	85	7.69
1"	105	90	9.40
1"1/2	130	115	17.95
2"	130	120	21.37
DN15	85	155	2.05
DN20	105	155	7.69
DN25	105	155	9.40
DN40	130	190	17.95
DN50	130	195	21.37
DN65	185	210	64.10
DN80	180	225	68.37
DN100	230	250	102.56

SIZING CHART FOR WATER

Additional upstream pressure / adjustment pressure



Water flow (l/m)

BPV ELITE type STAINLESS STEEL OVERFLOW VALVE

SIZING CHART FOR AIR

		Flow: Nm ³ /h												
Input pressure (bar)		1	2	3	4	5	6	7	8	9	10	11	12	
Output pressure (bar)	0	1/2"	32,5	65	98	130	162	195	230	262	296	330	360	395
		3/4"	120	240	368	490	600	720	850	960	1100	1200	1320	1460
		1"	150	300	445	600	750	888	1040	1200	1350	1500	1640	1780
		1.5"	288	578	860	1150	1440	1720	2000	2300	2600	2870	3180	3460
		2"	342	688	1026	1370	1720	2060	2400	2750	3100	3430	3760	4100
		2.5"	1035	2070	3110	4150	5180	6210	7250	8300	9320	10350	11400	12440
		3"	1105	2208	3320	4420	5520	6620	7720	8840	9940	11050	12150	13250
		4"	1658	3310	4980	6630	8300	9950	11600	13280	14960	16600	18200	19900

MOUNTING AND MAINTENANCE INSTRUCTIONS

1. Mounting

Please check the fit between the pressures indicated on the body and the use.

Please shut the up and downstream pipes off, depressurize the piping and lower the installation temperature to room temperature before any use.

Install an upstream filter and a control valve upstream and downstream

Carefully remove any particle remaining on the piping by clearing with water or blowing with compressed air.

Install the regulator following the direction of the arrow on the body, and with the pressure gauge facing upwards. Check the pressure gauge tightness. Open the up and downstream valves. To adjust the upstream pressure, please use adjusting screw (*mark 13 on the drawing page 1*) and the pressure gauge indication.

2. Maintenance

Before any intervention, please shut off the up and downstream piping using the shut-off valves.

Depressurize the piping and lower the installation temperature to room temperature.

Completely unscrew the adjustment screw (*mark 13*). Remove the upstream filter cap and clean or replace the strainer.

For a complete check of the device, disassemble part (2) and (11). Check the condition of the gaskets (*mark 3 and 8*) and replace them if necessary.

Check the condition of the spring (*mark 10*) and replace it if it is broken.

Clean all the internal parts. Re-install the dismantled parts in the reverse order.

Put the device back to operation by slowly opening the upstream valve, and then the downstream valve.

Re-adjust the relief pressure using the screw (*mark 13*).