

Pressure Relief Valve

PV 710



KOSCN PV710 pressure Relief valve is mainly used for upstream pressure regulating, pressure fluctuation balancing and pressure peak decreasing. The pressure regulating valves are usually installed in the branch pipe that is connected to the main pipeline and they can function as safety valves, also called pressure release valves. For required backpressure application, the pressure regulating valves can be mounted in the main pipeline as counterbalance valves, also called overflow valves.

Easy installation and maintenance

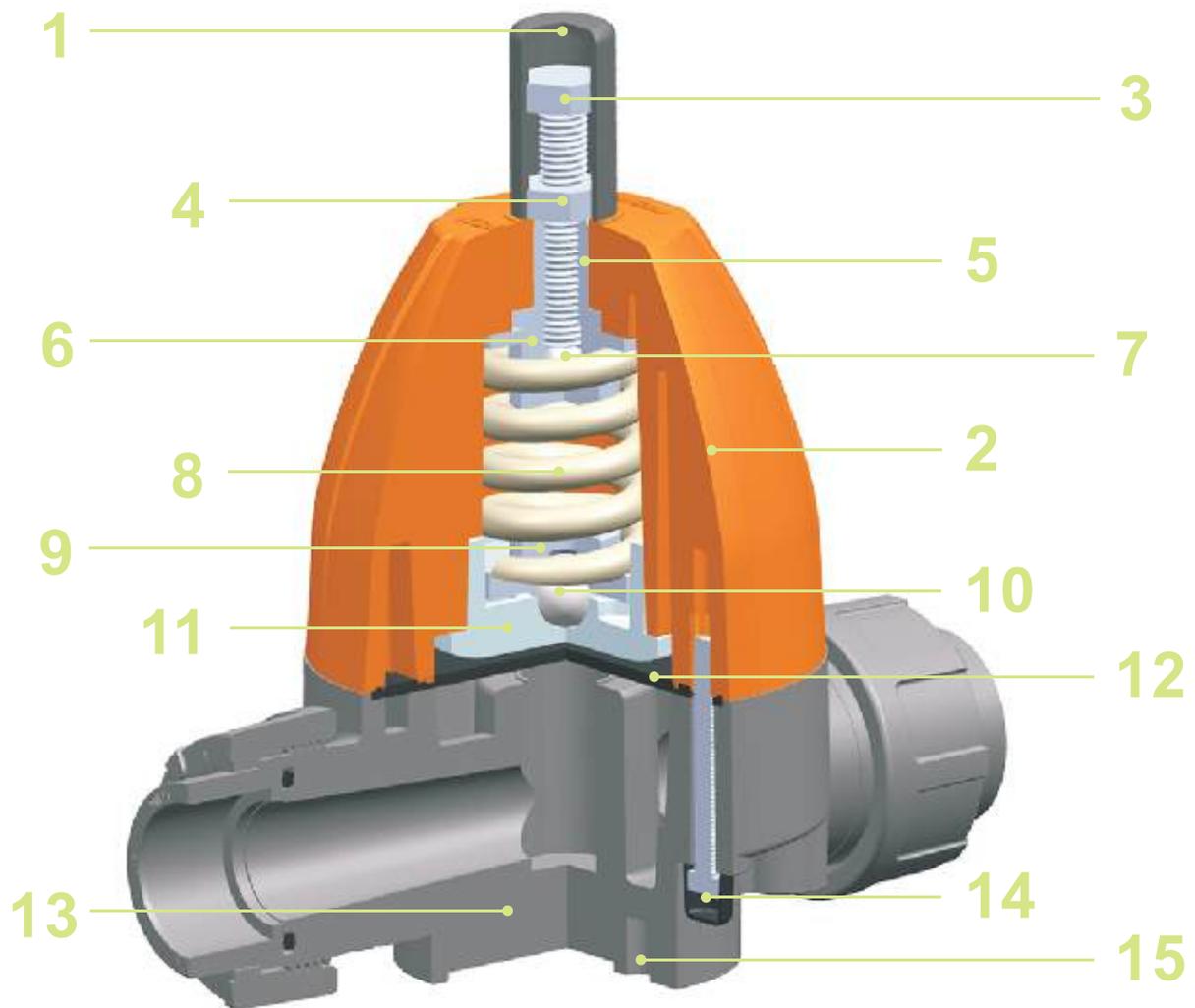
- * All-plastic appearance structure, beautiful and corrosion-resistant
- * Easy to install, no maintenance required
- * The connector implements the international DIN 8063 standard
- * Adjustable at any time, including during work

High safety performance

- * Working pressure up to 10 bar
- * Can effectively balance out pressure pulsation and reduce pressure peaks
- * The instrument interface thread is embedded in stainless steel, which is suitable for various installation strengths
- * Reinforced PTFE rubber laminated diaphragm, with higher pressure guarantee

High Flexibility

- * Wetted material PVC-U, PPH, PVDF, SUS
- * Sealing material EPDM, FPM
- * Connection form Double order, flange, female thread (only stainless steel body)
- * Interface standard DIN, JIS, ANSI
- * The valve end instrument interface can be optionally equipped with pressure gauge and pressure sensor
- * The required working pressure can be preset as required before leaving the factory



1 Protection cap

6 Pressure plate

11 Compressor

2 Upper part

7 Steel ball

12 Diaphragm

3 Adjustment screw

8 Spring

13 Valve body

4 Counter nut

9 Spring plate

14 Anticorrosive plug

5 Lead screw nut

10 Steel ball

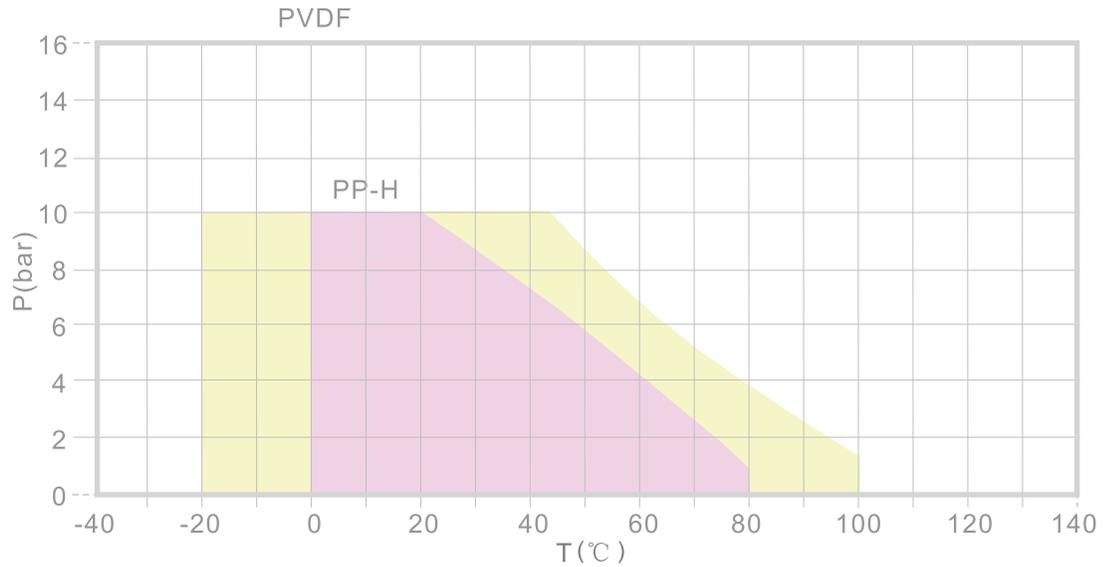
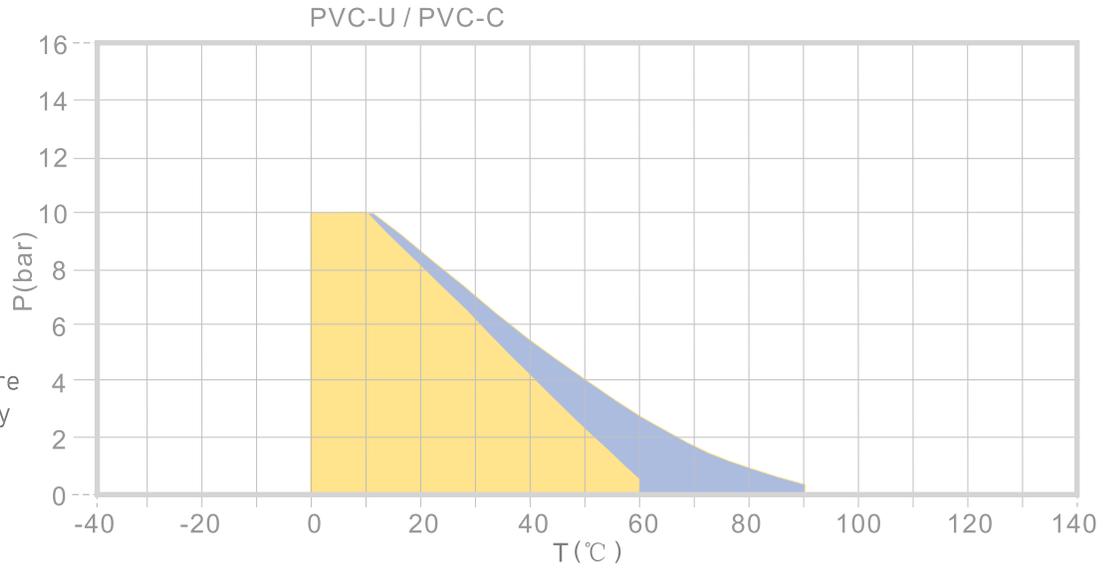
15 Fixed mounting hole

+ Technical characteristics

Pressure temperature curve

All data based on water for considering 25 years safe life time

Other liquids request to reduce the temperature and pressure accordingly



Flow capacity

All data are for 20°C water with 1 bar pressure difference

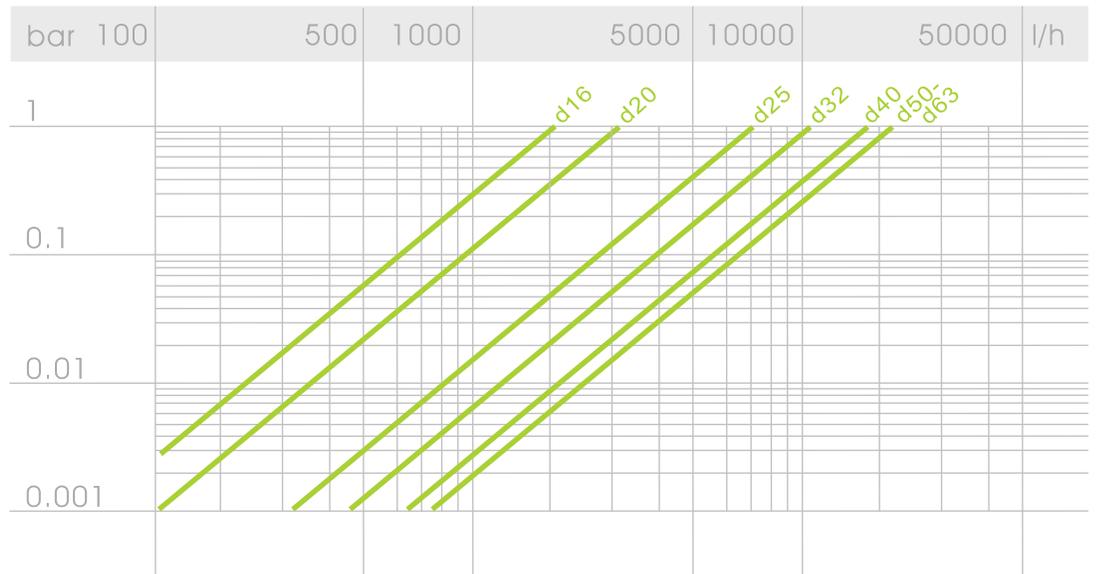
$$C_v = k_v \times 0,07$$

$$F_v = k_v \times 0,0585$$

K_v (l/min)

C_v (gal/min) US

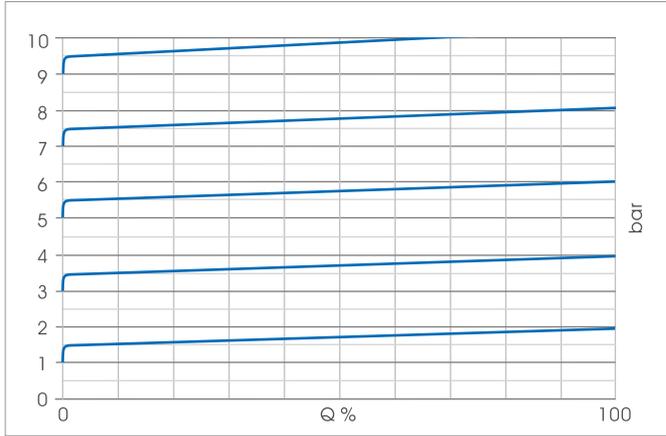
F_v (gal/min) GB



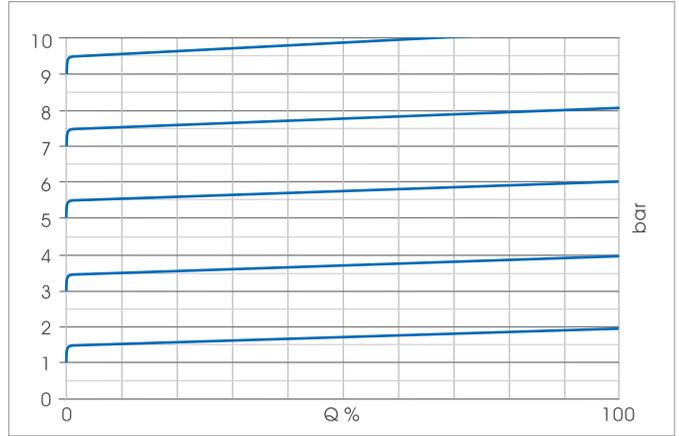
Technical Data

The curves below are valid for the set range 0.5- 10.0 bar and show the secondary or outlet pressure P2 over the flow Q in l/h. Parameter is the set pressure pE at Q = 0 l/h. There curves are valid for water at +20 °C for a flow velocity of 2 m/s.

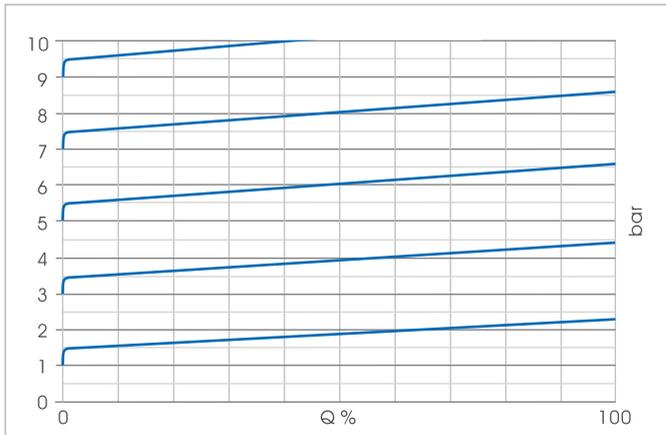
DN 10



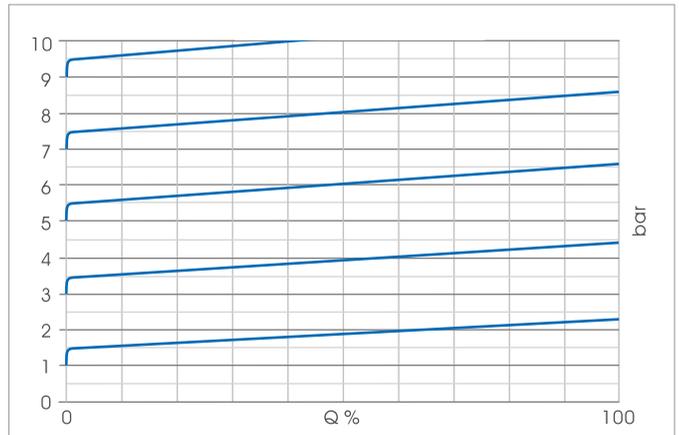
DN 15



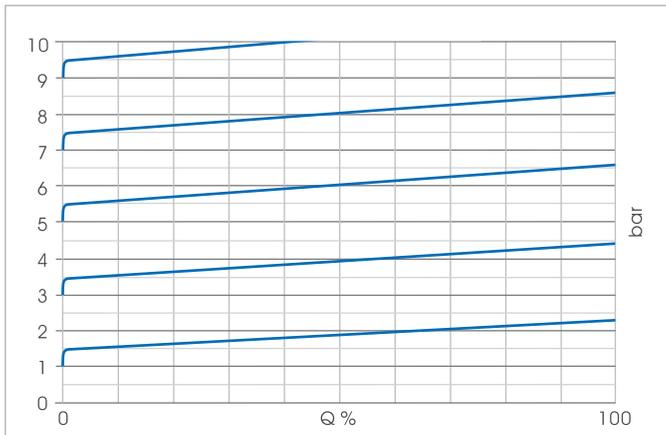
DN 20



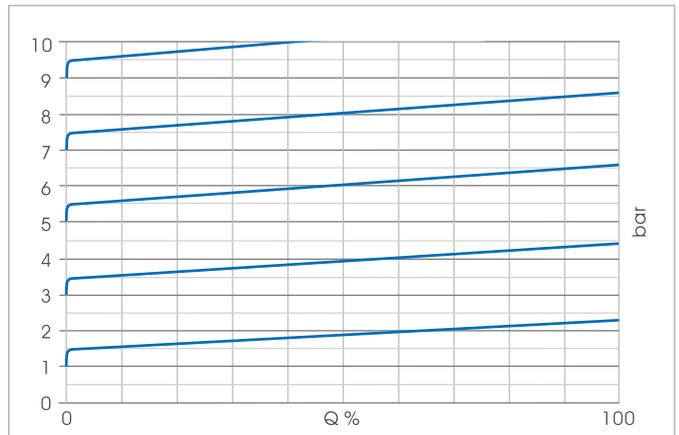
DN 25



DN 32

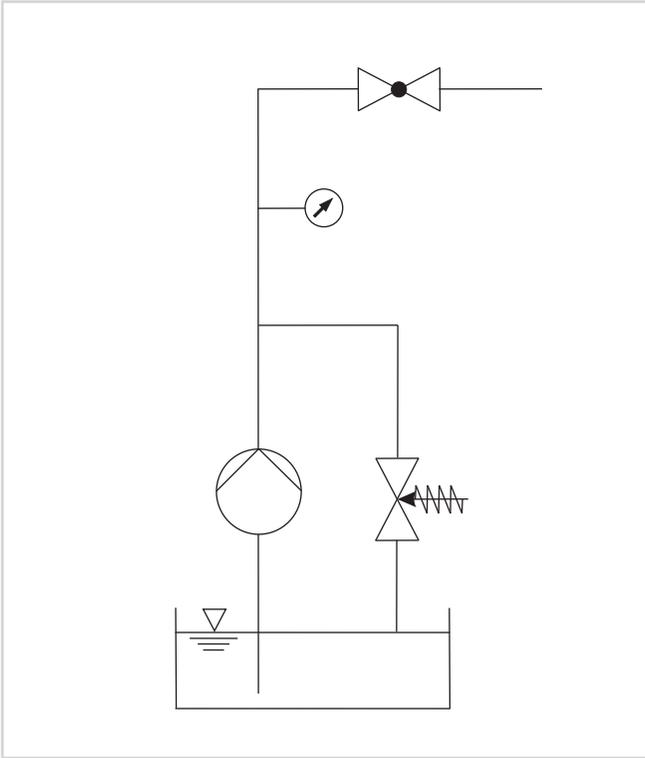


DN 40-50

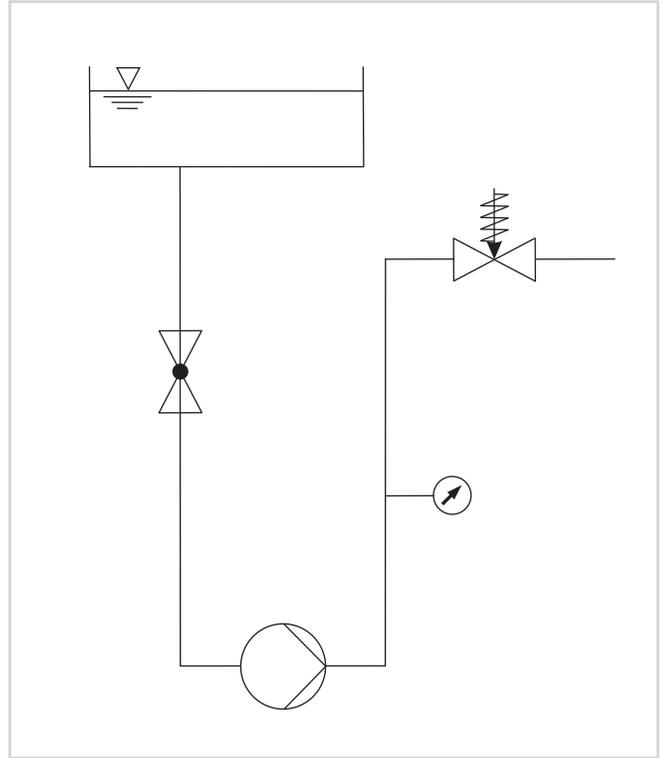


+ Installation examples

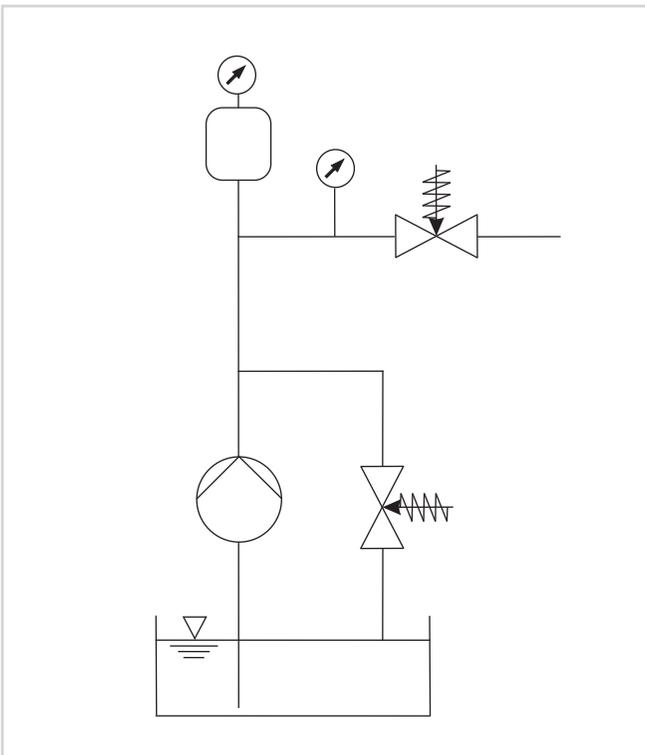
Pressure relief to ensure system safety



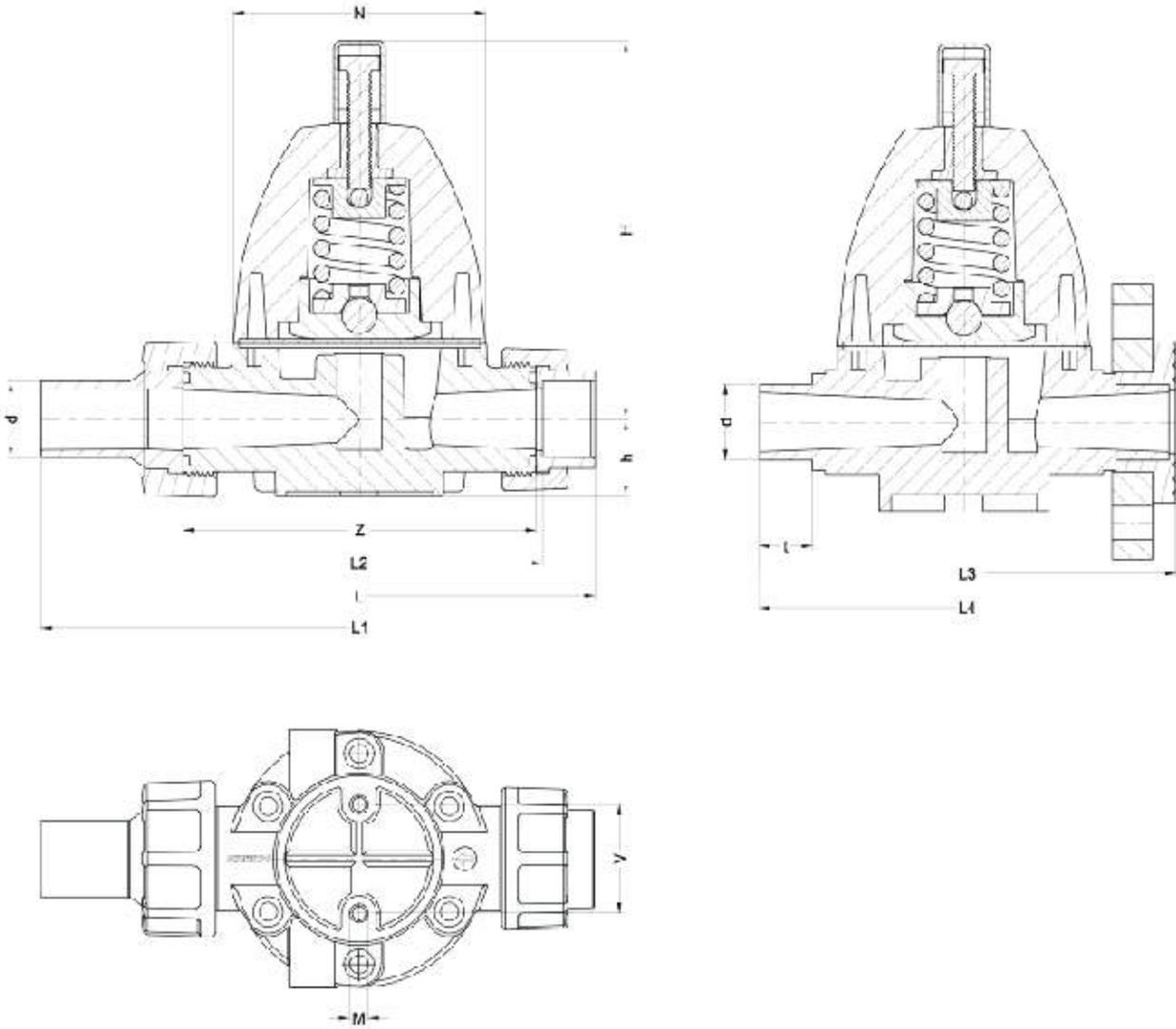
Use at high inlet pressure or
Generation of a constant working pressure



Optimal solution for the reduction of pressure surges with overflow valve to protect the system



+ Size



Unit: mm

d	DN	N	H	h	L	L1	L2	L3	L4	t	V	M
16	10	80	147	25	120	-	126	-	144	14	40	6
20	15	80	147	25	120	228	126	150	144	16	40	6
25	20	107	207	32	150	264	156	180	174	19	46	6
32	25	107	207	32	150	270	156	180	174	22	46	6
40	32	146	272	53	204	331	211	230	224	26	65	8
50	40	146	272	53	204	338	211	230	224	31	65	8
63	50	146	272	53	204	343	211	250	244	38	65	8



 **contact**
customer center
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