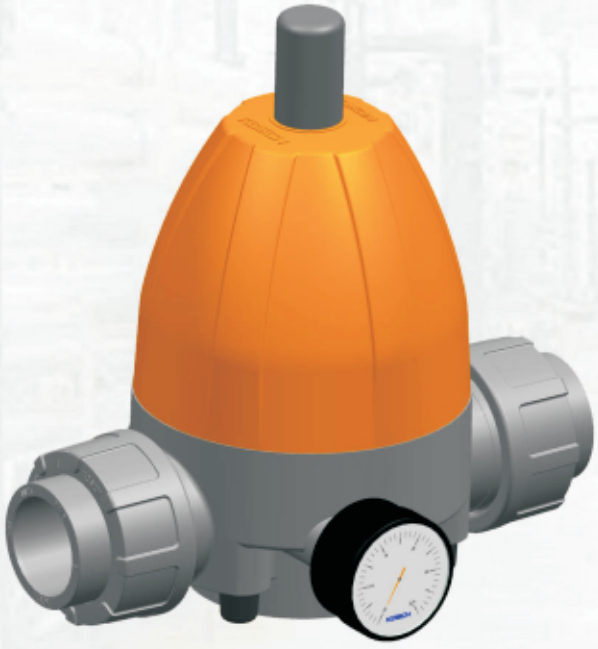
KOSCN Instruments

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

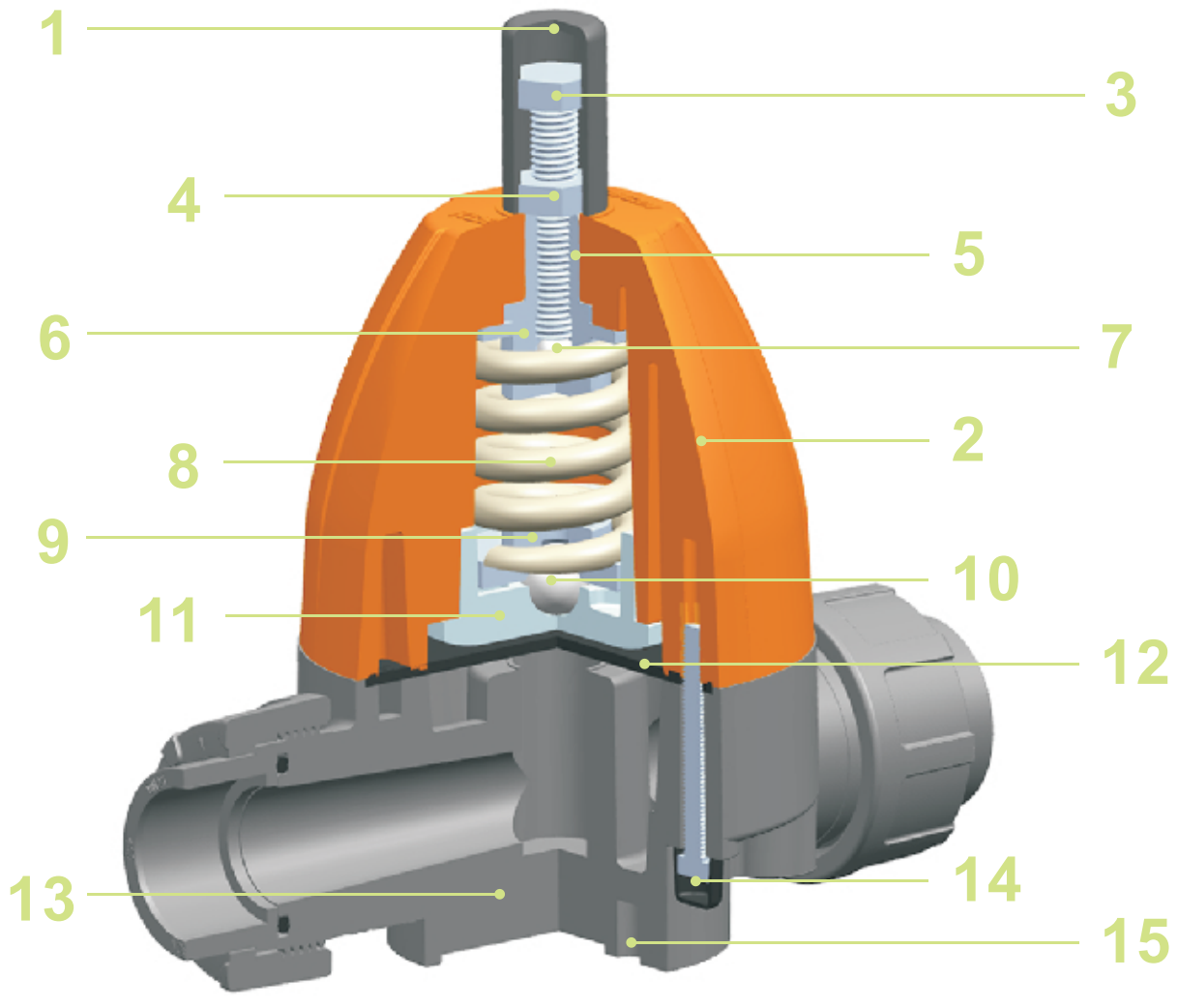
* All-plastic appearance structure, beautiful and corrosion-resistant
* Easy to install, no maintenance required
* The connector implements the international DIN 8063 standard
* Adjustable at any time, including during work

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



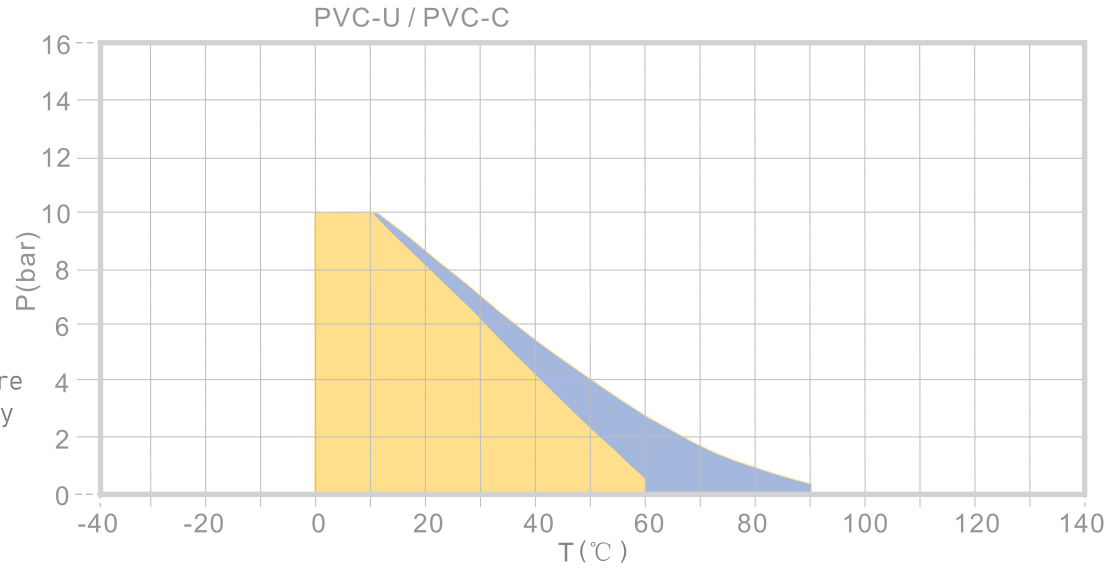
1 Protection cap	6 Pressure plate	11 Compressor
2 Upper part	7 Steel ball	12 Diaphragm
3 Adjustment screw	8 Spring	13 Valve body
4 Counter nut	9 Spring plate	14 Anticorrosive plug
5 Lead screw nut	10 Steel ball	15 Fixed mounting hole

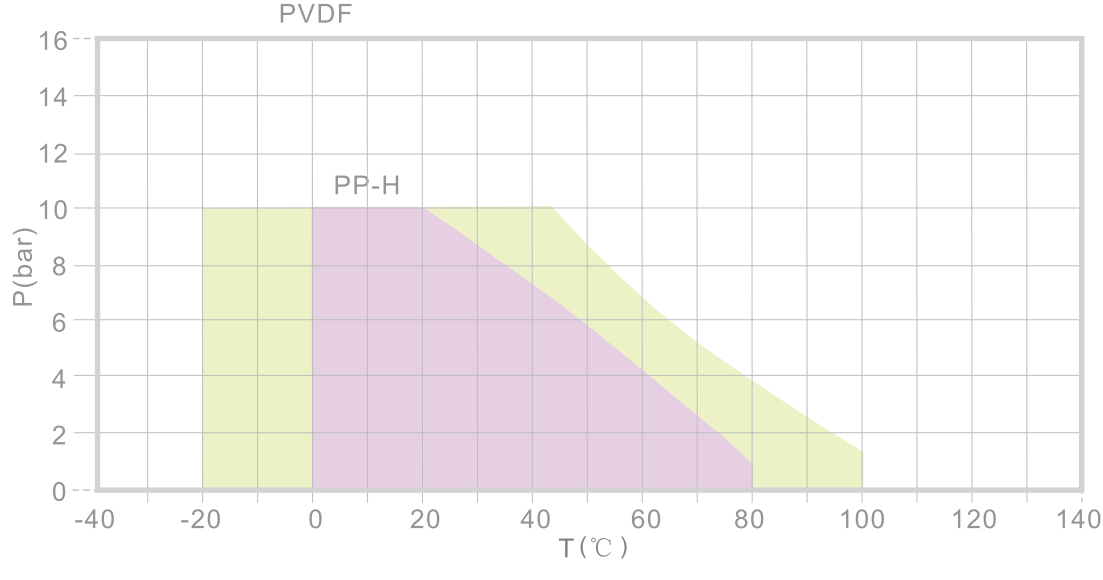
Technical characteristics

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

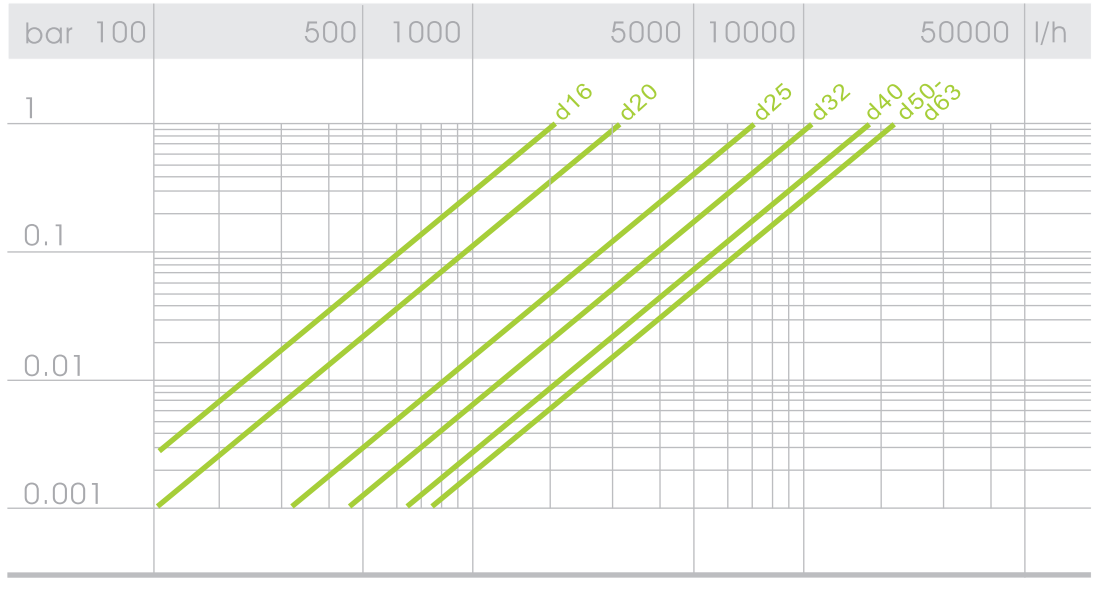




Flow capacity

All data are for 20℃ water with 1 bar pressure difference

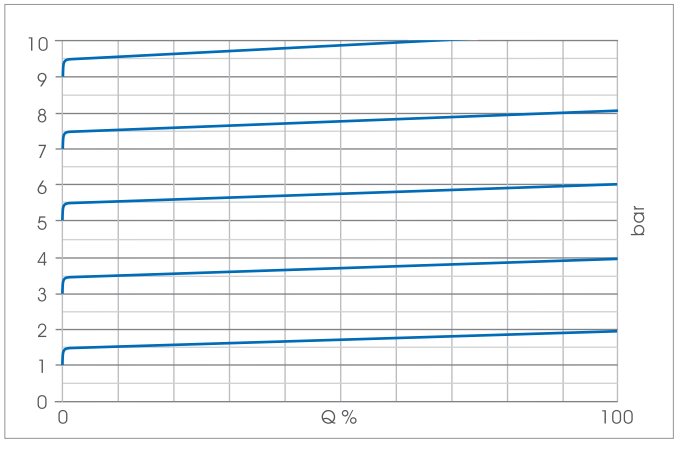
Cv = kv×0,07
Fv = kv×0,0585
Kv (l/min)
Cv (gal/min) US
Fv (gal/min) GB



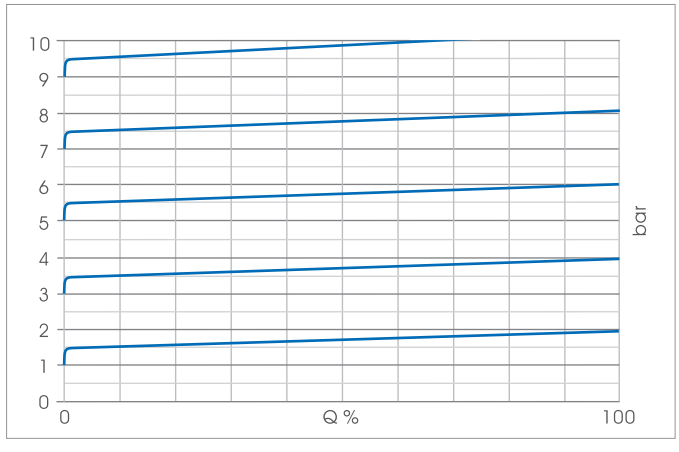
Technical Data

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.

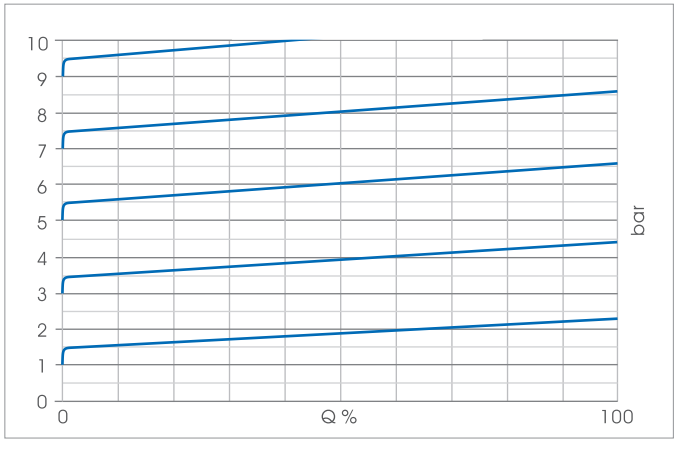
DN 10



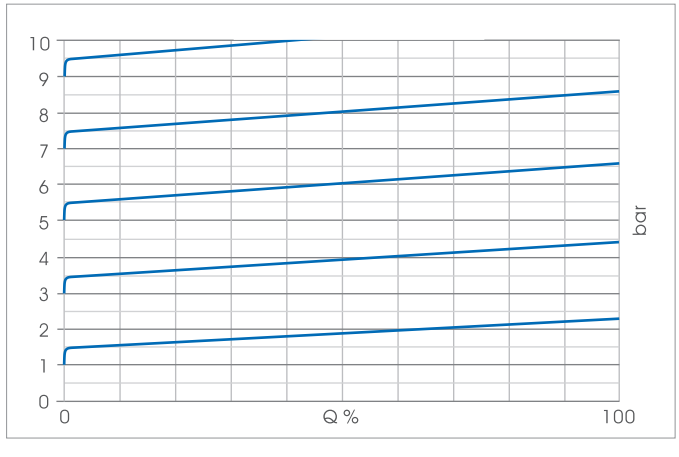
DN 15



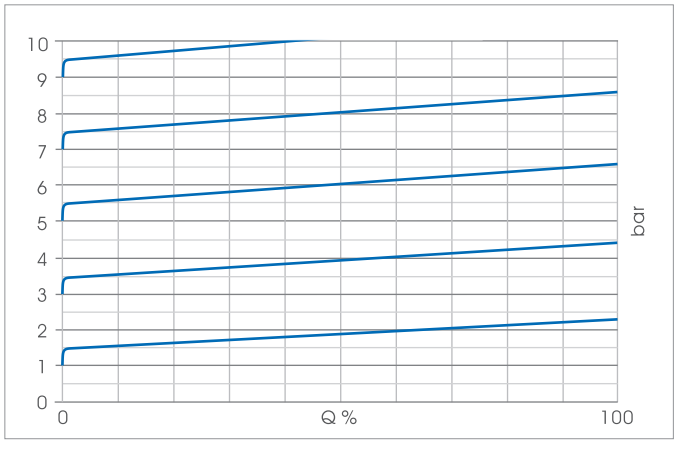
DN 20



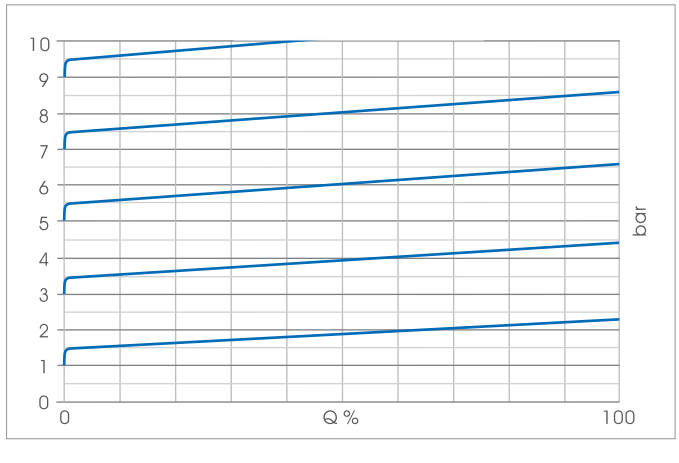
DN 25



DN 32



DN 40-50



Order code

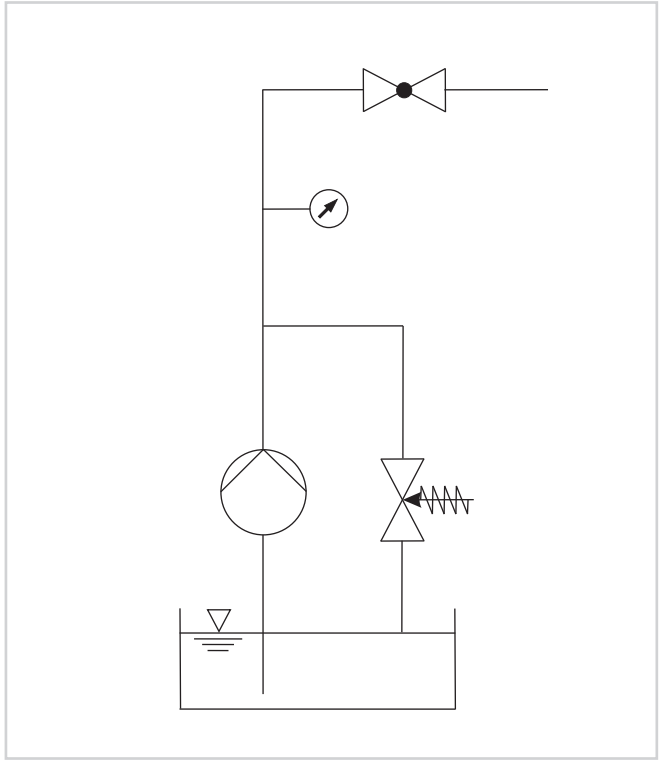
PV Pressure relief valves □□□ □□□ □□□□ □□□

Series	
	710
Valve body material	
PVC-U	0
PVC-C	2
PP	4
PVDF	6
SS316	9
Sealing material	
PTFE-EPDM	1
PTFE-FPM	3
PTFE	7
Adjustment mode	
Manual	0
Connection mode	
Union Socket-end	1
Union Spigot Butt-IR	3
Spigot fix	5
Flange	7
Thread	9
Connection standard	
DIN	0
JIS	2
ANSI	4
BSP/G	6
Interface size	
d16, DN10	16
d20, DN15	20
d25, DN20	25
d32, DN25	32
d40, DN32	40
d50, DN40	50
d63, DN50	63
Preset pressure *	
0.5 bar	005
1.0 bar	010
1.5 bar	015
2.0 bar	020
2.5 bar	025
3.0 bar	030
3.5 bar	035
4.0 bar	040
... ...	... ...
10 bar	100

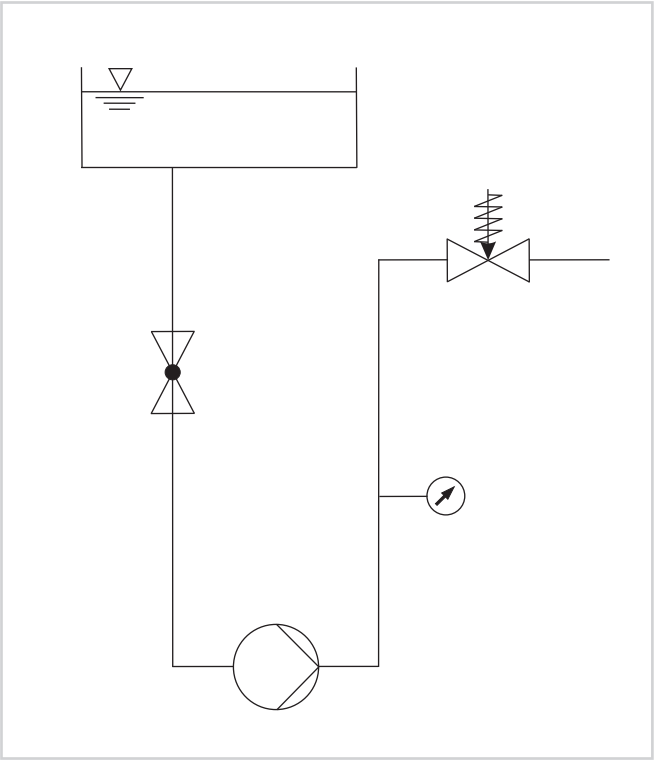
* Blank: No preset pressure requirements

Installation examples

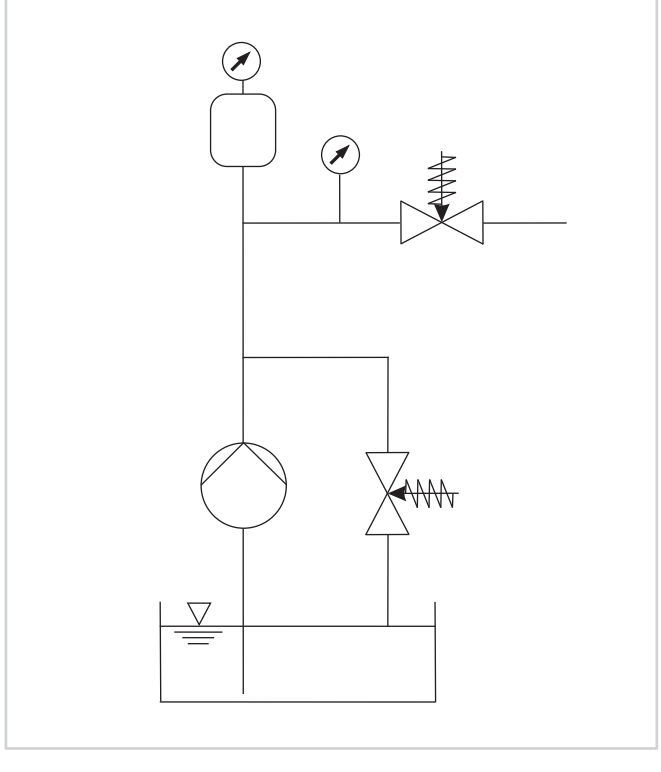
Pressure relief to ensure system safety



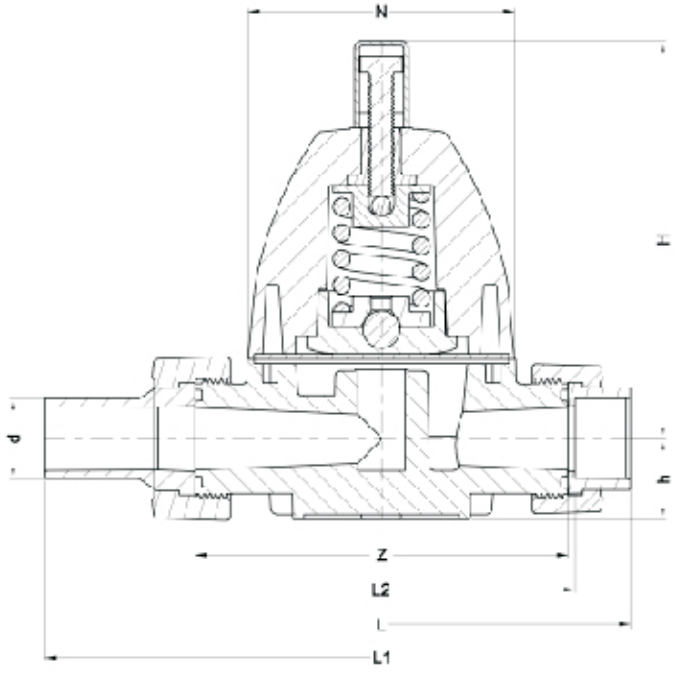
Use at high inlet pressure or
Generation of a constant working pressure

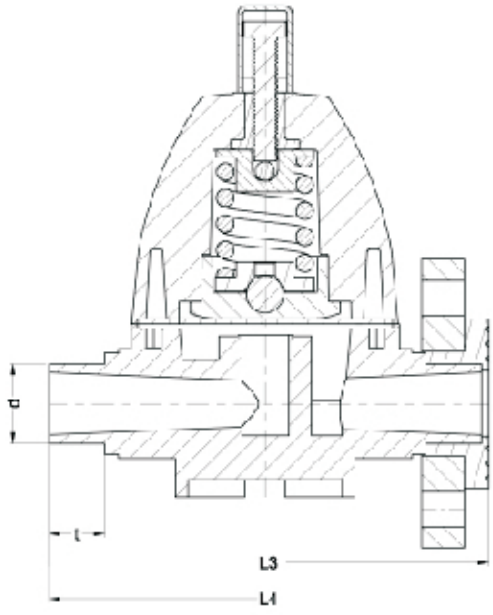


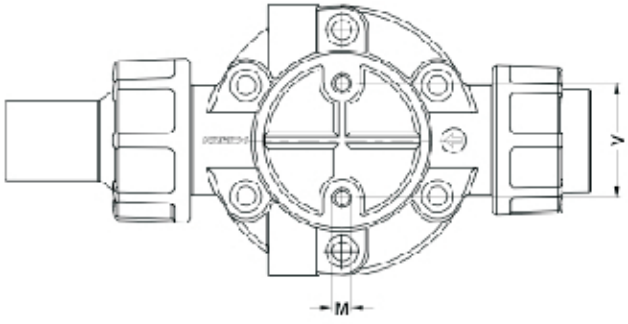
Optimal solution for the reduction of pressure
surges with overflow valve to protect the system



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
www.koscn.cn

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