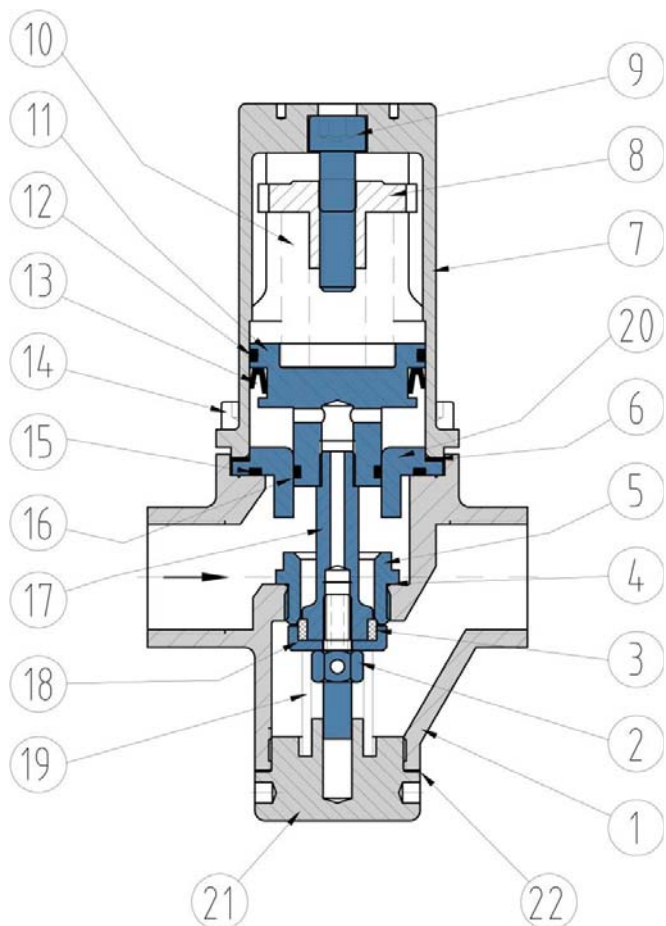


Pressure Reducing Valve - Model PRV30

BASIC INFORMATION

Type	Self-operated pressure reducing valve with piston	Kv	0,25 / 0,6 / 1 / 2 m ³ /h
Operation	Valve tends to close when outlet pressure increases		
Model	PRV30	Temperature	-30 to 80° [°C] (NBR seals) -10 to 125 °C (EPDM seals) -10 to 150 °C (VITON seals)
Connections	Flanged (DIN - ANSI) or Threaded (BSP - NPT)		
Ends	RF – RF, NPT, BSP	Inlet max. pressure	25 [barg]
Ratings	PN16 (150#)	Pressure ranges:	0,5 – 3 1 – 8 4 – 12 barg Liquids and gases, group 2.
Sizes	DN15, DN20 and DN25 (1/2", 3/4" and 1")	Suitable for	Compressed air, water, neutral gases

PARTS



MATERIALS

REF.	PART	MATERIAL
1	Body	1.4404 - SS 316L
2	Seal screw	1.4404 - SS 316L
3	Seal	NBR
5	Seat	1.4404 - SS 316L
6	Gasket	PTFE
7	Spring cover	1.4404 - SS 316L
8	Washer spring	Galvanized steel 1.1191
9	Regulation screw	Stainless steel A2-70
10	Regulation spring	Spring steel 52SiCrNi5 (epoxy painting 60-100 micras)
11	Piston	1.4404 - SS 316L
12	O-ring	NBR
13	Gasket	NBR
14	Screw (x4)	Stainless steel A2-70
15	O-ring	NBR
16	O-ring	NBR
17	Stem	1.4404 - SS 316L
18	Guide steal	1.4404 - SS 316L
19	Seal spring	Stainless steel 302
20	Guide bush	1.4404 - SS 316L
21	Lower cover	1.4404 - SS 316L
22	Gasket	NBR

Special gaskets for special fluid on demand

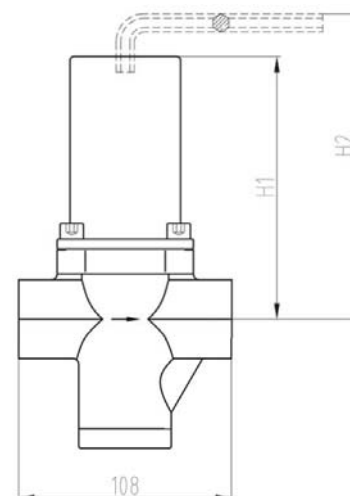
DIMENSIONS AND K_v

Threaded

DN [mm]	½"	¾"	1"
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K _v value	2.0	2.5	3.5
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A [mm]	108	108	108
H1 [mm]	135	135	135
H2 [mm] (H1 + ALLEN 8)	185	185	185
Weight [Kg.]	3,5	3,5	3,5

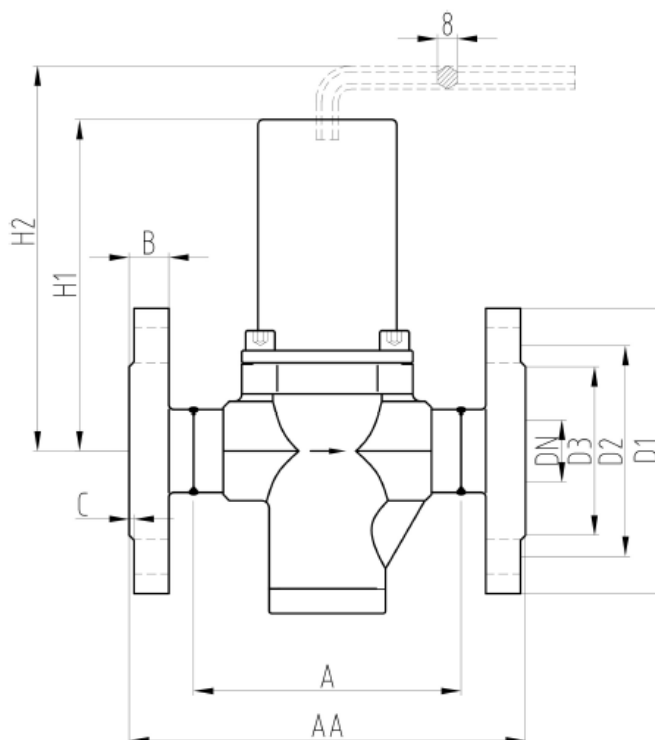


STANDARD CONFIGURATIONS

Flanged EN PN16/25 Flanged ANSI CL150

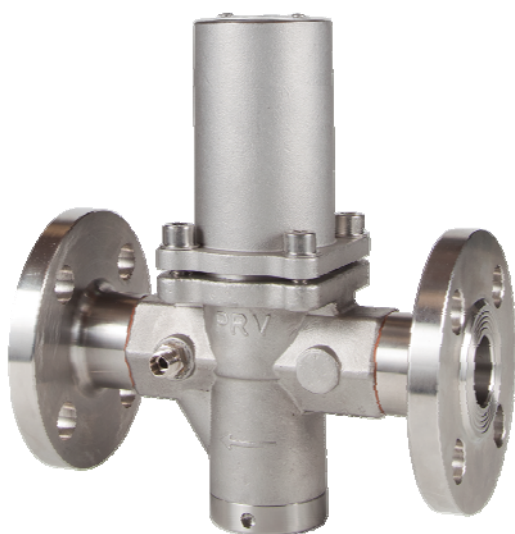
DN [mm]	15	20	25
Kv [m ³ /h]·[bar]	2,0	2,5	3,5

AA EN	130	150	160
AA [mm] ANSI 150	184	184	184
H1 [mm]	135	135	135
H2 [mm]	185	185	185
D1 [mm] EN	95	105	115
D1 [mm] ANSI 150	89	98	108
D2 [mm] EN	65	75	85
D2 [mm] ANSI 150	60,5	70	79.5
D3 [mm] EN	45	58	68
D3 [mm] ANSI 150	35	43	51
B [mm] EN	16	16	16
B [mm] ANSI 150	12	12	12
C [mm]	2	2	2
N° Holes	4	4	4
Ø [mm] EN	14	14	14
Ø [mm] ANSI 150	16	16	16
Weight [Kg]	5	5	5



Classification according pressure equipment Directive, PED 2014/68/UE

All sizes in millimeters.

IMPORTANT NOTE: Kv or CV reduced is available

Recommended spare part:

Reference	Description	Item
PRV30.SP1	Seal Kit	3 + 6 + 12 + 13 + 15 + 16 + 22
PRV30.SP2	Gasket kit	6 + 22
PRV30.SP3	Springs	10 + 19

OPERATION

PRV concept is direct action. Inlet pressure comes into the valve and closes it **because of the sections difference**.

When we compress the spring (10) through the regulating screw (9), the stem-seal (11, 17 and 3) opens the valve and allows the regulation.

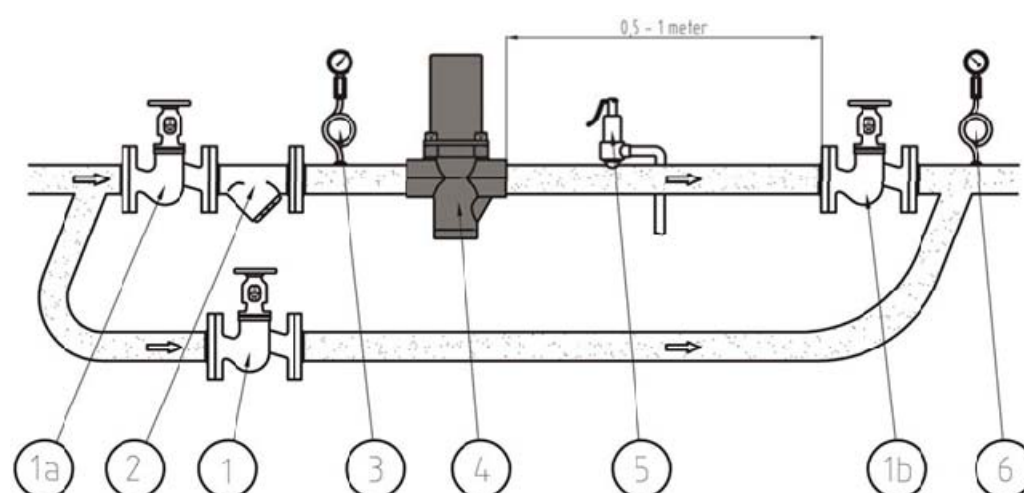
When any downstream valve is closed and flow=0, PRV will absorb the oscillations and keep the outlet pressure according to the regulation.

The valve closes when the downstream pressure exceeds the regulating set pressure.

It is recommended to leave a space (between 0,5 and 1 meter) until the check valve, for a better compensation.

To increase outlet pressure, the regulating screw (9) should be turned anticlockwise.

STANDARD INSTALLATIONS



- 1. Isolation valves
- 1a. Isolation valves
- 1b. Isolation valves
- 2. Filter
- 3. Inlet pressure Manometer
- 4. Pressure reducing valve PRV
- 5. Safety valve
- 6. Outlet pressure Manometer



ATEX approved

Classification according pressure equipment Directive, PED 2014/68/UE

Fluid	PN	Size	Category	CE marked	Chart
Gases and liquids of group 2	PN25	DN15 – DN25	Apar 3-art 3	No requerido / <i>Not required</i>	7

Disclaimer

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