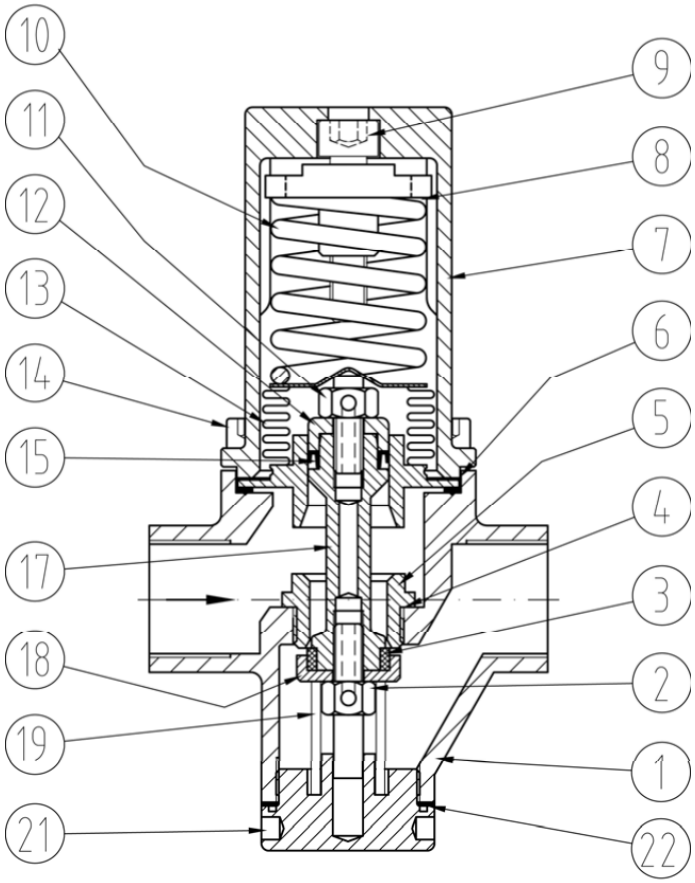
Pressure Reducing Valve - Model **PRV44**

BASIC INFORMATION

Type	Self-operated pressure reducing valve with bellows		**Kv**	2, 2.5 and 3.0 [m3/h]·[bar]
Operation	Valve tends to close when outlet pressure increases		**Cv**	2.3, 2.9 and 3.5 [gpm]·[psi]
Model	PRV44		**Temperature**	-10 to 210º [ºC]
Connections	Flanged (DIN - ANSI) or Threaded (BSP - NPT)			14 to 410 [ºF]
Ends	RF – RF, NPT, BSP		**Inlet max. pressure**	16 [barg]
Ratings	PN16	(150#)	**Outlet pressure**	0,2 - 8 [barg]
Sizes	DN15, DN20 and DN25	(1/2", 3/4'' and 1")	**Suitable for**	Steam, compressed air, water and neutral gases

PARTS



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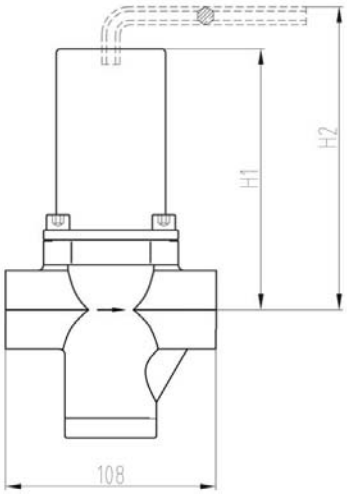
MATERIALS

REF.	PART	MATERIAL	
		ANSI /ASTM	DIN / EN
1	Body	S.S. (AISI 316)	S. S. (1.4408)
2	Seal screw	S.S. (AISI 316)	S. S. (1.4408)
3	Seal	Graphite PTFE	Graphite PTFE
4	Gasket	PTFE (D-792)	PTFE (53749)
5	Seat	S.S. (AISI 316L)	S.S. (1.4404)
6	Gasket (x2)	PTFE (D-792)	PTFE (53749)
7	Spring cover	S.S. (AISI 316L)	S.S. (1.4404)
8	Washer spring	C. S. (AISI 1025)	C.S (1.1158)
9	Regulation screw	S. S. (AISI 304)	S.S (1.4301)
10	Regulation spring	C.S. (52SiCrNi5)	C.S. (1.7117)
11	Bellow screw	S.S. (AISI 316L)	S.S. (1.4404)
12	Gasket cover	S.S. (AISI 316L)	S.S. (1.4404)
13	Bellow kit	S.S. (AISI 316L)	S.S. (1.4404)
14	Allen screw	S. S. (AISI 304)	S.S (1.4301)
15	Gasket	Graphite PTFE	Graphite PTFE
17	Stem	S.S. (AISI 316L)	S.S. (1.4404)
18	Guide steal	S.S. (AISI 316L)	S.S. (1.4404)
19	Seal spring	S.S. (AISI 302)	S.S (1.43)
21	Lower cover	S.S. (AISI 316L)	S.S. (1.4404)
22	Gasket	FKM (D 1418)	FPM (1629)

DIMENSIONS AND K_v

DN [mm]	15	20	25
NPS [inches]	½''	¾''	1''

Kv	2.0	2.5	3.0
Cv	2.3	2.9	3.5
A [mm]	108	108	108
H1 [mm]	135	135	135
H2 [mm] (H1 + ALLEN 8)	185	185	185
Weight [Kg.]	2.5	2.5	2.5

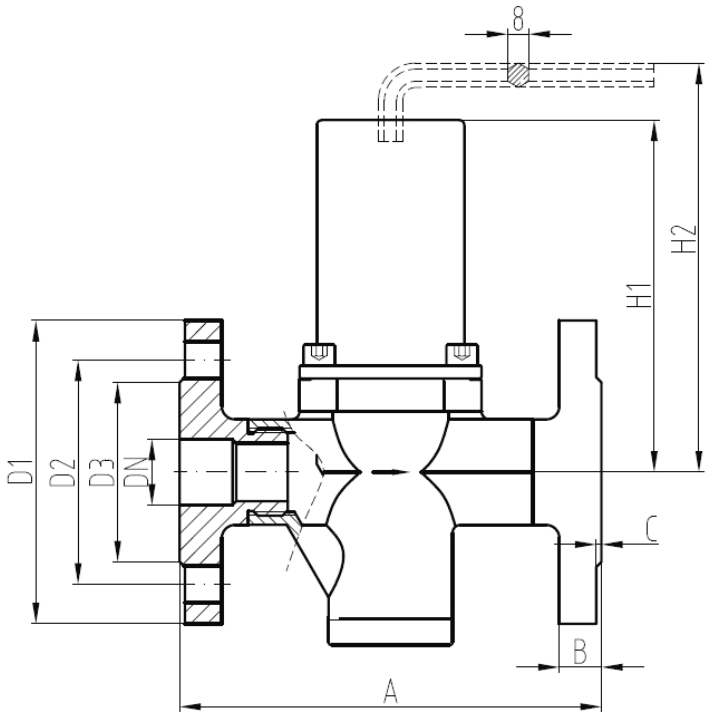


STANDARD CONFIGURATIONS

DN [mm]	15	20	25
Kv [m3/h]·[bar]	2,0	2,5	3,0

NPS [inch]	1/2”	3/4”	1”
Cv [gpm]·[psi]	2,5	3	3,5

A [mm] EN	140	150	160
A [mm] ANSI 150	140	150	160
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
Nº Holes	4	4	4
Ø [mm] EN	14	14	14
Ø [mm] ANSI 150	16	16	16
Weight [Kg]	5	5	5



IMPORTANT NOTE: Kv or CV reduced is available

In red color, sizes out of standards

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.

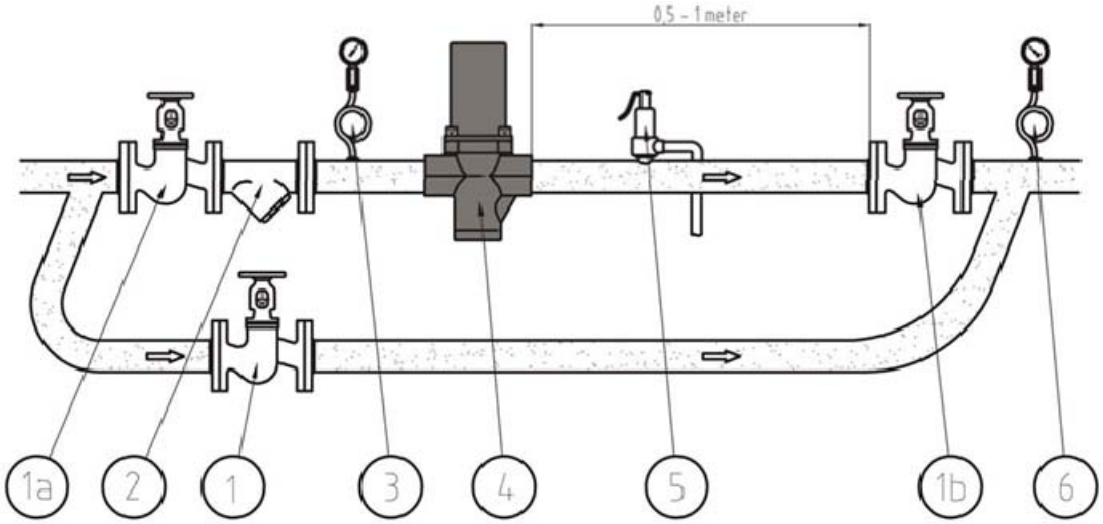
When any downstream valve is closed and flow=0, PRV will absorb the oscillations and keep the outlet pressure according to the regulation.

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 c heck valve, for a better compensation.

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

STANDARD INSTALLATIONS



1. Check Valve
1a. Check Valve
1b. Check Valve
2. Filter
3. Inlet pressure Manometer
4. Pressure reducing valve PRV
5. Safety valve
6. Outlet pressure Manometer

ATEX approved

Disclaimer

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