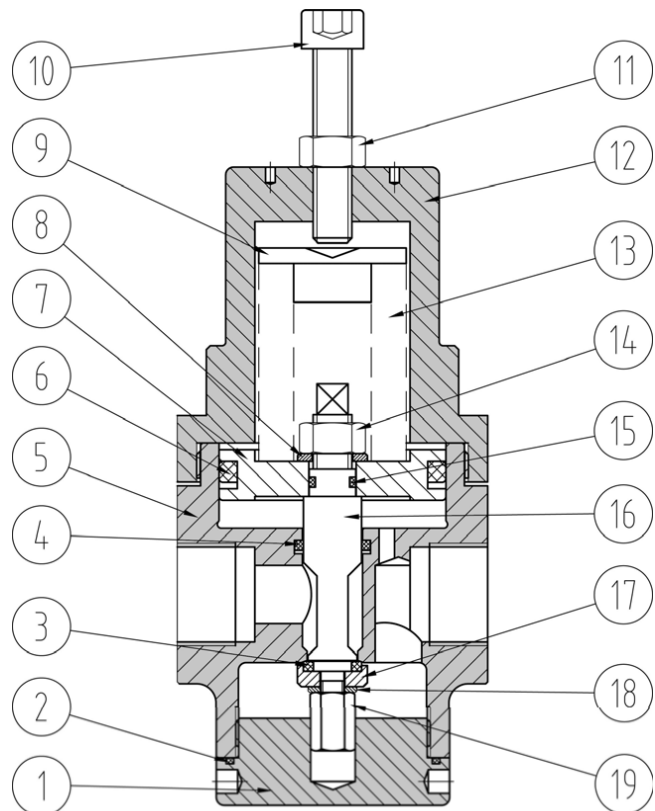


Pressure Reducing Valve - Model PRV20

BASIC INFORMATION

Type	Self-operated pressure reducing valve with piston	Kv	2, 2.5 and 3.0 [m ³ /h]-[bar]
Operation	Valve tends to close when outlet pressure increases	Cv	2.3, 2.9 and 3.5 [gpm]-[psi]
Model	PRV20	Temperature	-20 to 80° [°C] -4 to 428 [°F]
Connections	Threaded (BSP - NPT)	Inlet max. pressure	40 [barg]
Ends	NPT, BSP	Outlet pressure	0,2 - 5 [barg]
Ratings	PN40	Suitable for	Liquids, compressed air, neutral gases and steam
Sizes	1/4", 3/8", 1/2" and 3/4"		

PARTS



MATERIALS

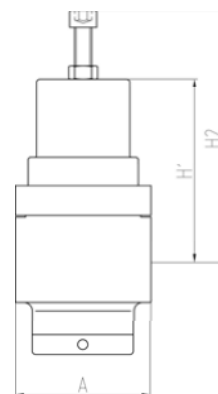
REF.	PART	MATERIAL	
		ANSI /ASTM	DIN / EN
1	Lower cover	S.S. (AISI 316L)	S. S. (1.4404)
2	O-ring	NBR (D-1418)	NBR (1629)
3	Seal	NBR (D-1418)	NBR (1629)
4	O-ring	NBR (D-1418)	NBR (1629)
5	Body	S.S. (AISI 316L)	S. S. (1.4404)
6	Seat	S. S. (AISI 304)	S.S (1.4301)
6	O-ring	NBR (D-1418)	NBR (1629)
7	Piston	S.S. (AISI 316L)	S. S. (1.4404)
8	Washer	S. S. (AISI 304)	S.S (1.4301)
9	Washer spring	S.S. (AISI 316L)	S. S. (1.4404)
10	Regulation screw	S. S. (AISI 304)	S.S (1.4301)
11	Nut	S. S. (AISI 304)	S.S (1.4301)
12	Spring cover	S.S. (AISI 316L)	S. S. (1.4404)
13	Regulation spring	C.S. (52SiCrNi5)	C.S. (1.7117)
14	Nut	S. S. (AISI 304)	S.S (1.4301)
15	O-ring	NBR (D-1418)	NBR (1629)
16	Stem	S. S. (AISI 304)	S.S (1.4301)
17	Guide seal	S.S. (AISI 316L)	S. S. (1.4404)
18	Washer	S. S. (AISI 304)	S.S (1.4301)
19	Nut	S.S. (AISI 316L)	S. S. (1.4404)

DIMENSIONS AND K_v

DN [mm]	6	9	12,5	19
NPS [inches]	1/4"	3/8"	1/2"	3/4"

K _v	1.2	1.8	2.1	2.4
C _v	1.4	2.1	2.4	2.8

A [mm]	80
H1 [mm]	110
H2 [mm]	150-180
Weight [Kg]	3.5



OPERATION

PRV20 concept is direct action. Inlet pressure comes into the valve and closes it because of the sections difference. When we compress the spring (13) through the regulating screw (10), the stem-seal (16, 3, and 17) 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 distance (between 0,5 and 1 meter) until the check valve, for a better compensation.

To increase outlet pressure, the regulating screw should be turned clockwise.



Disclaimer

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