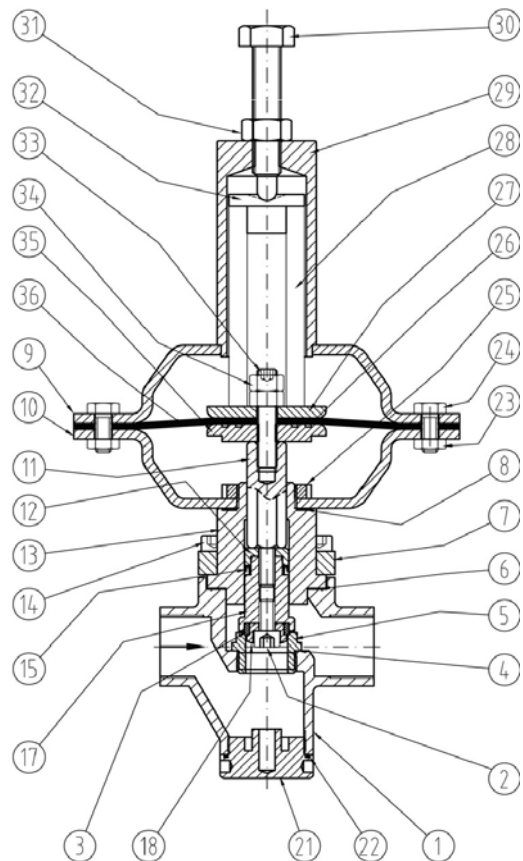


Pressure Reducing Valve - Model PRV55

BASIC INFORMATION

Type	Self-operated pressure reducing valve with diaphragm	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	PRV55	Temperature	-10 to 180° [°C] 14 to 356 [°F]
Connections	Flanged (DIN - ANSI) or Threaded (BSP - NPT)	Inlet max. pressure	16 [barg]
Ends	RF – RF, NPT, BSP	Outlet pressure	0,01- 8 [barg]
Ratings	PN16 (150#)	Suitable for	Steam, compressed air, water and neutral gases
Sizes	DN15, DN20 and DN25 (1/2", 3/4" and 1")		

PARTS



MATERIALS

REF.	PART	MATERIAL	
		ANSI / ASTM	DIN / EN
1	Body	S.S. (AISI 316L)	S. S. (1.4404)
2	Seal screw	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
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	PTFE	PTFE
7	Valve cover	S.S. (AISI 1015)	S. S. (1.1141)
8	Gasket	PTFE (D-792)	PTFE (53749)
9	Upper actuator	C.S. ((A1011) painted in epoxy))	C.S. ((1.0335) painted in epoxy))
10	Lower actuator	C.S. ((A1011) painted in epoxy))	C.S. ((1.0335) painted in epoxy))
11	Stem	S.S. (AISI 316L)	S.S. (1.4404)
12	Bushing guide	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
13	Guide stem	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
14	Allen screw	S. S. (AISI 304)	S.S (1.4301)
15	Gasket	Graphite PTFE	Graphite PTFE
17	Stem and guide seal	S.S. (AISI 316L)	S.S. (1.4404)
18	Seal washer	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
21	Lower cover	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
22	Gasket	FKM (D 1418)	FKM (1629)
23	Nut	S. S. (AISI 304)	S.S (1.4301)
24	M8 screw	S. S. (AISI 304)	S.S (1.4301)
25	Nut KM-6	S. S. (AISI 304)	S.S (1.4301)
26	O-ring	NBR (D-1418) FKM (D 1418)	NBR (1629) FKM (1629)
27	Support spring	C.S. ((A1011) painted in epoxy))	C.S. ((1.0335) painted in epoxy))
28	Regulation spring	C.S. (52SiCrNi5)	C.S. (1.7117)
29	Spring cover	(S.S. (AISI 304) epoxy painted)	(S.S. (1.1191) epoxy painted)
30	Regulation screw	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
31	Regulation nut	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
32	Spring guide	S.S. (AISI 304)	S.S. (1.1191)
33	Screw	S. S. (AISI 304)	S.S (1.4301)
34	Nut	S. S. (AISI 304)	S.S (1.4301)
35	Lower support dia.	S.S. (AISI 304L) S.S. (AISI 316L)	S. S.(1.4307) S. S. (1.4404)
36	Diaphragm	EPDM (D-1418) EPDM + PTFE (D-1418 + D-792)	EPDM ((1629) EPDM + PTFE (1620 + 53749)

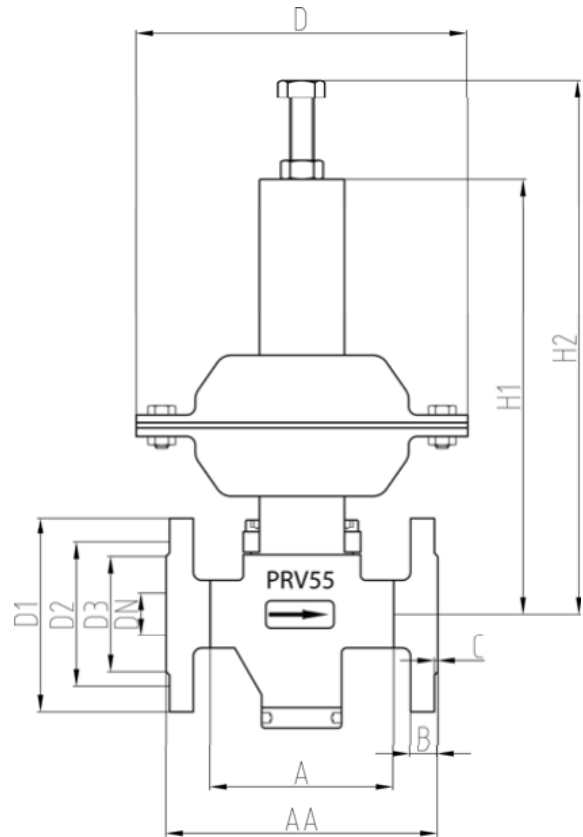
Recommended spare parts

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

AA [mm] EN	140	150	160
AA [mm] ANSI 150	140	150	160
H1 [mm]	258	258	258
H2 [mm]	320	320	320
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] EN	2.5	2.5	2.5
Weight [Kg] ANSI150	5	5	5



IMPORTANT NOTE: Kv or CV reduced is available

In red color, sizes out of standards

THREADED BSP OR NPT (FEMALE)

DN [mm]	15	20	25
[m3/h]-[bar]	2.0	2.5	3.0
Cv [gpm]-[psi]	2.5	3.0	3.5
A [mm]	108	108	108
Weight [Kg]	2,5	2,5	2,5

OPERATION

PRV55 valve should be installed in horizontal pipe and respecting the fluid flow direction must match the arrow on the valve body.

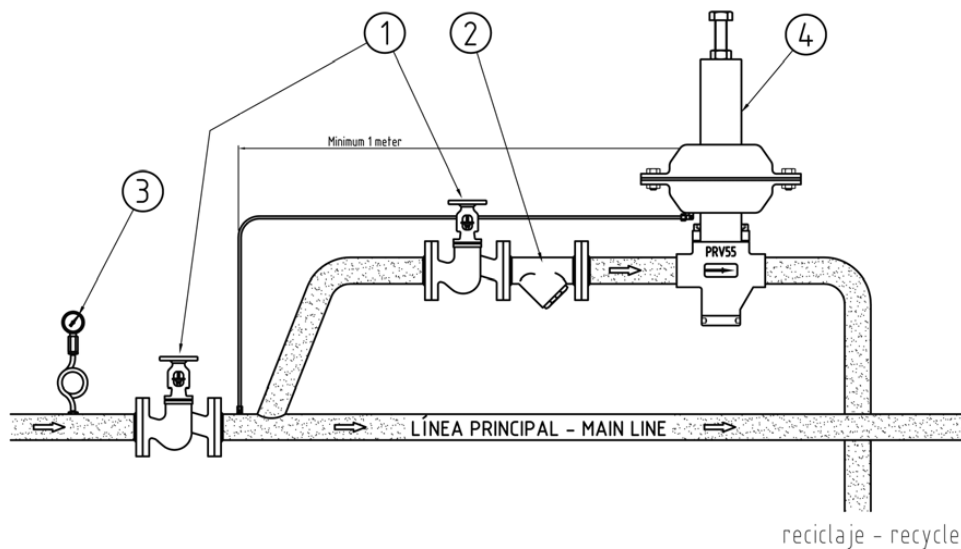
Steam installations, the actuator must be installed in low position. Condensating tank is essential when temperatures above 120°C to protect the diaphragm from overheating. The tank is always placed in the highest point of the pipe.

The strainer (item 2) must be installed upstream of the regulator to protect seal and diaphragm and avoid excessive maintenance. Remember to leave enough space to remove and clean it.

The distance between connection control line and valve would be, at least, 6xDN.

External control line it's necessary for liquids with temperatures above 125°C and steam, and recommended for liquids below 125°C. For gases isn't necessary because valve mounts the internal control line.

STANDARD INSTALLATIONS



TYPICAL INSTALLATION FOR LIQUIDS AND NEUTRAL GASES

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



ATEX approved

Disclaimer

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