

Suzhik Offer Pressure Reducing Valve Investment Cast Stainless Steel Material for Air, Water, Oil, Gas, Steam & Chemicals.

Materials

Body	1/2" ~ 6" (15-50mm) ASTM A351 Gr. CF8/CF8M/CF3M
Seat	Buna-N(Water) / PTFE (Steam)
Diaphragm	Buna-N(Water) / PTFE (Steam)
O-ring	Buna-N
Spring	Spring steel
Adjusting stem	S.S. 304
Ends	Screwed / Flanged

Pressure Temperature

Temperature range	80 °C (for water)
Temperature range	200 °C (for steam)
Maximum working press.	21 kg/cm ² inlet
Pressure adjusting range	1~6 kg/cm ² , 4~10 kg/cm ² , 8~13 kg/cm ²

Options

Available different Models for Air, Water, Oil, Gas, Steam & Chemical

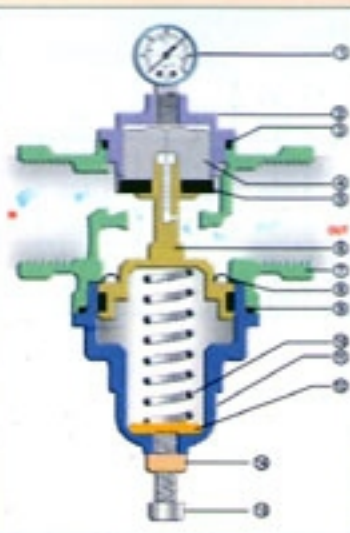
LP - Low pressure range	3~20 PSI
HP - High pressure range	Max Inlet 40 kg/cm ² Outlet 20 ~ 35 kg/cm ²

Standard

1/2"~6" meet requirements of
 ASSE standard 1003. (ANST 112.26)
 CSA Standard B356,
 (ASSE-American Society of Sanitary Engineering)
 (CSA - Canadian Standard Association)

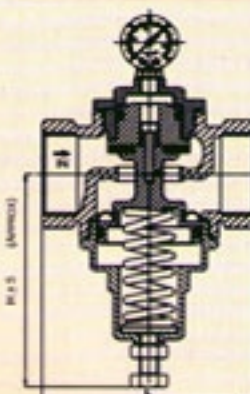
No.	Part Name	Material
1	Gauge*	Stainless Steel Case
2	Cover	Stainless Steel 304 / 316
3	U - ring	NBR/Viton
4	Piston	Stainless Steel 304 / 316
5	Sealing spacer (seat)	NBR / Viton / PTFE
6	Shaft	Stainless Steel 304 / 316
7	Main body	ASTM A351 Gr. CF8/CF8M
8	Diaphragm	NBR/Viton/PTFE
9	O - ring	NBR/Viton
10	Spring	Spring Steel
11	Spring cover	Stainless Steel 304 / 316
12	Washer	Brass
13	Adjusting stem	Stainless Steel 304 / 316
14	Adjusting Check Nut	Stainless Steel 304 / 316

*Optional Accessory



**IBR
APPROVED**

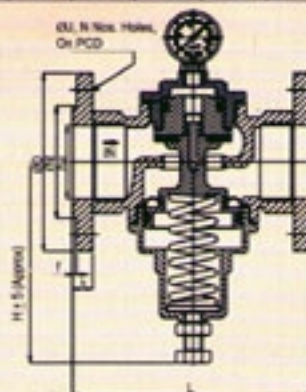
Suzhik
PRESSURE REDUCING VALVE



DIMENSIONS - SCREWED END

(All dimensions are in mm)

Model no.	PRV-1/2 SD	PRV-3/4 SD	PRV-1" SD	PRV-1 1/4 SD	PRV-1 1/2 SD	PRV-2" SD	PRV-2 1/2 SD	PRV-3" SD	PRV-4" SD	PRV-6" SD
Size	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)	2 1/2" (65)	3" (80)	4" (100)	6" (150)
H	82.00	89.00	90.00	90.00	112.00	115.00	179.00	179.00	222	222
L	70.00	85.00	92.00	98.50	115.00	126.00	148.00	177.00	190	190
CV	2.4	9	11	12.15	21	25	75	80	120	120
Weight(Kg)	0.825	0.994	1.030	1.200	2.200	2.400	7.600	8.500	12.250	12.250



DIMENSIONS - FLANGED END

(All dimensions are in mm)

Model no.	PRV-1/2 FD	PRV-3/4 FD	PRV-1" FD	PRV-1 1/4 FD	PRV-1 1/2 FD	PRV-2" FD	PRV-2 1/2 FD	PRV-3" FD	PRV-4" FD	PRV-6" FD
Size	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)	1 1/2" (40)	2" (50)	2 1/2" (65)	3" (80)	4" (100)	6" (150)
H	82	89	90	90	112	115	179	179	222	222
Port	13	19	24.3	32	38	51	78	78	103	103
L	108	147	127	170	195	208	210	225.5	251	251
Ø D	88.90	98.55	107.95	117.35	127	152.4	177.8	190.5	228.6	228.6
b	9.55	10.41	11.17	12.7	14.22	15.75	17.73	17.3	20.25	20.25
Ø g	35.05	42.95	50.8	63.5	73	91.95	104.65	127	157.23	157.23
f	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
Ø j	15.75	15.75	15.75	15.75	15.75	19.05	19.05	19.05	19.05	19.05
N	4	4	4	4	4	4	4	4	8	8
PCD	60.45	69.85	79.25	88.90	98.55	120.65	139.79	152.4	190.5	190.5
Weight(Kg)	1.657	1.980	2.300	3.995	4.800	5.200	13.400	14.150	23.300	23.300

PRESSURE SETTING AND FLOW RATE OF DIRECT-ACTIVATED PRESSURE REDUCING VALVE:

Direct-activated pressure reducing valve directly opens and closes the valve gate by the outlet pressure.

When Outlet pressure is under setting pressure, valve gate automatically opens. To make valve gate fully open, adjustable pressure range and setting pressure are relative points.

A : Pressure drop needed for fully-opened valve gate = B/A, B = Adjustable Pressure Range Maximum-Minimum

B : Adjustable Pressure Range (= Maximum-Minimum Adjustable Pressure Range)

C : Setting Pressure of Outlet

P : Pressure of fully-opened outlet valve gate, P=C-A

Example:

Pressure drop needed for fully-opened valve gate for adjusting pressure range 3~9 kg/cm² of direct-activated pressure reducing valve. A=B/4=9-3=1.5 kg/cm².

If the setting pressure of outlet is 6 kg/cm², pressure of fully-opened valve gate will be P=6-1.5=4.5 kg/cm² (Outlet pressure should go down under 4.5 kg/cm² to make valve gate fully open)

Flow Chart of Inlet and Outlet Pressure Drop

