

PRESSURE REDUCING VALVE

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

MATERIALS

Body	1/2" ~ 4" (15-100MM) 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	SS.304
Ends	Screwed / Flanged

Pressure / Temperature :-

- ❖ Temperature : 80 °C (For Water)
- ❖ Temperature : 180°C (For Steam)
- ❖ Max. Working Pr. : 21Kg/Cm², Inlet
- ❖ Pres. Adjusting Range : 0.5 ~ 6Kg/Cm², 4 ~ 10 Kg/Cm²
: 8 ~ 13 Kg/Cm², 12 ~ 2 Kg/Cm², 20 ~ 35 Kg/Cm²

Standard

1/2" ~ 4" Meet Requirements of
ASSE Standard 1103. (ANST 112.26)
CSA Standard B356
(ASSE-American Society of Sanitary Engineering)
(CSA - Canadian Standard Association)

Options

Available Different Models for Air, Water, Oil, Gas, Steam & Chemical
LP - Low Pressure Range 10~35Psi
HP - High Pressure Range Max Inlet 40Kg/cm ² Outlet 12~25 Kg/Cm ² 20 ~ 35Kg/Cm ²

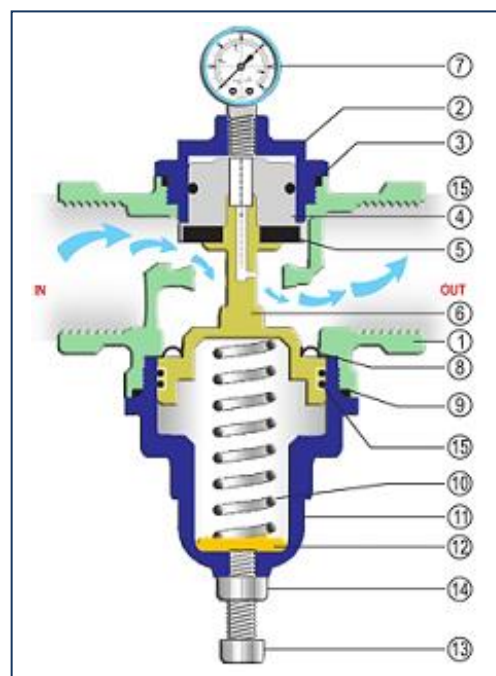
PRESSURE SETTING AND FLOW RATE OF DIRECT - ACTIVATED PRESSURE REDUCING VALVE

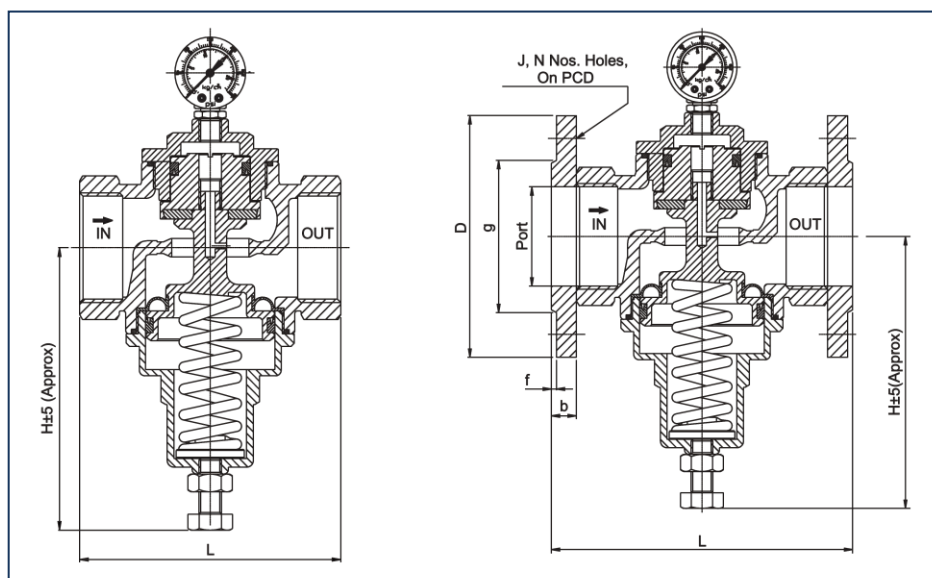
- Direct-activated pressure reducing valve directly opens and close valve gate by the outlet pressure
- When Outlet pressure is under setting pressure, valve gate automatically opens, To make valve gate fully open, adjustable pressure range and setting pressure are relative points.
- A: Pressure drop needed for fully-opened valve gate=B/4,B=Adjustable Pressure Range Maximum-Maximum
- B: Adjustable Pressure Range(=Maximum Maximum 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 kgf/cm², of direct activated pressure reducing valve.
- A=B/4=9 - 3 = 1.5 kgf/cm².
- If the setting pressure of outlet 6 kgf/cm², pressure of fully-opened valve gate will be P=6-1.5 = 4.5
- kgf/cm² (Outlet Pressure should go down under 4.5kgf/cm² to make valve gate fully open)

No.	Part Name	Material
1	Main body	ASTM A351 Gr. CF8 / CF8M / C.I. Aluminium
2	Cover	Stainless Steel 304 / 316 / C. I./Aluminium
3	U-ring	NBR/Viton
4	Piston	Stainless Steel 304/316
5	Sealin9 spacer (seat)	NBR / Viton / PTFE
6	Shaft	Stainless Steel 304/316
7	Pressure Gauge	Stainless Steel Case *
8	Diaphragm	NBR/Viton/PTFE
9	O-ring	NBR/Viton
10	Sprin9	Spring Steel
11	Spring Cover	Stainless Steel 304 / 316 / C. I./Aluminium
12	Washer	Brass
13	Adjusting stem	Stainless Steel 304 / 316
14	Adjusting check nut	Stainless Steel 304 / 316
15	O- ring	NBR/Viton





Dimensions : (Screwed)

(All imensions are in mm)

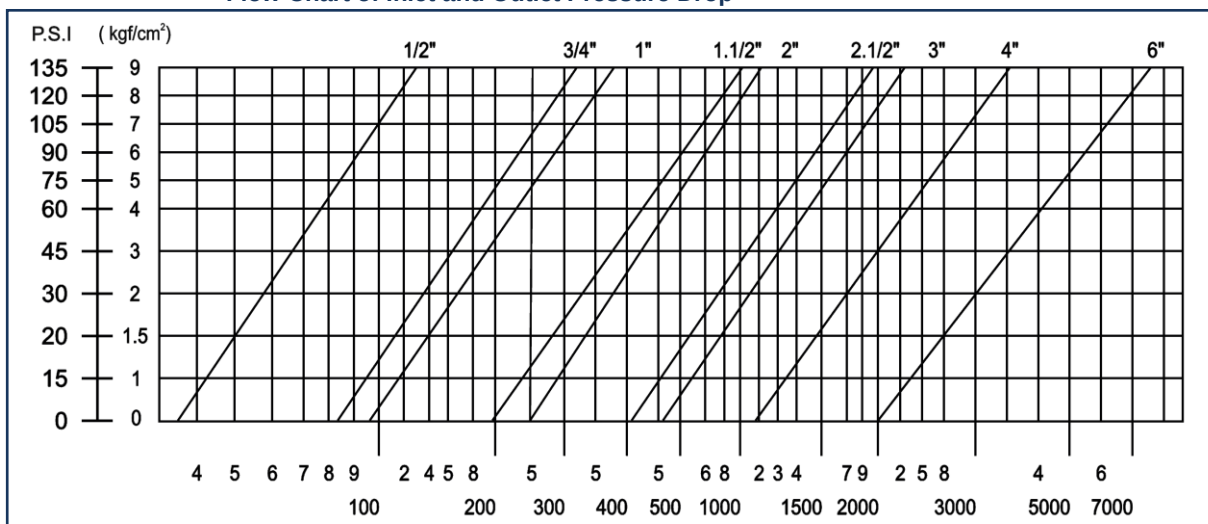
Model No.	Valve Size		H	L	CV	Weight
	MM	Inch				
WGS-15 SD	15	1/2"	95	72	2.4	0.950
WGS-20 SD	20	3/4"	112.7	87	9	1.150
WGS-25 SD	25	1"	113.7	91	11	1.150
WGS-32 SD	32	1.1/4"	110.1	100	12.15	1.400
WGS-40 SD	40	1.1/2"	112	116	21	2.500
WGS-50 SD	50	2"	139.8	120	25	2.600
WGS-65 SD	65	2.1/2"	176.8	147	75	7.800
WGS-80 SD	80	3"	181.7	176	80	8.550
WGS-100 SD	100	4"	222.5	190	120	12.450

Dimensions : (Flanged)

(All Dimensions are in mm)

Valve Model	Valve Size		Port	ØD	b	ØG	f	ØJ	N	PCD	L	H	Weight Approx
	MM	Inch											
WGF-15	15	1/2"	12.00	90	8.00	34.9	2	15.90	4	60.30	146	100.8	1.700
WGF-20	20	3/4"	22	100	8.90	42.9	2	15.90	4	69.90	152	111.1	2.150
WGF-25	25	1"	24	110	9.60	50.8	2	15.90	4	79.40	127	87.7	2.450
WGF-32	32	1.1/4"	30	115	11.20	63.5	2	15.90	4	88.90	172	108.8	3.250
WGF-40	40	1.1/2"	37	125	12.70	73.0	2	15.90	4	98.40	197	137.5	4.750
WGF-50	50	2"	49	150	14.30	92.1	2	19.05	4	120.70	210	138.5	6.500
WGF-65	65	2.1/2"	64	180	15.90	104.8	2	19.05	4	139.70	214	---	13.450
WGF-80	80	3"	79	190	17.50	127.0	2	19.05	4	152.40	229	---	14.455
WGF-100	100	4"	98	230	22.30	157.2	2	19.05	8	190.50	260	---	24.600

Flow Chart of Inlet and Outlet Pressure Drop



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