

Catalogue No.  
AEA / 1032

## "PRV" Pressure Reducing Valve

**aira**  
VALVE AUTOMATION  
ISO 9001 CO.

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

Size Range : 1/2" to 4" Screwed / Flanged

### Standard

- 1/2" to 4" Meet requirements of
- ASSE Standard 1003. (ANST 112.26)
- CSA Standard B356
- (ASSE - American Society of Sanitary Engineering)
- (CSA - Canadian Standard Association)

### Pressure / Temperature

- Temperature : 80 °C (For Water)
- Temperature : 180 °C (For Steam)
- Maximum Working Pressure : 21 Kg/cm<sup>2</sup>, Inlet
- Pressure Adjusting Range : 1 ~ 6 Kg/cm<sup>2</sup>, 4 ~ 10 Kg/cm<sup>2</sup>  
8 ~ 13 Kg/cm<sup>2</sup>, 12 ~ 20 Kg/cm<sup>2</sup> 20 ~ 35 Kg/cm<sup>2</sup>

### 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
- Pressure drop needed for fully-opened valve gate for Adjusting Pressure range 3~9 kgf/cm<sup>2</sup> of direct activated pressure reducing valve.
- A=B/4=9 - 3 = 1.5 kgf/cm<sup>2</sup>.
- If the setting pressure of outlet 6 kgf/cm<sup>2</sup>, Pressure of fully opened valve gate will be P=6-1.5 = 4.5 kgf/cm<sup>2</sup> (Outlet Pressure should go down under 4.5kgf/cm<sup>2</sup> to make valve gate fully open)

### Options

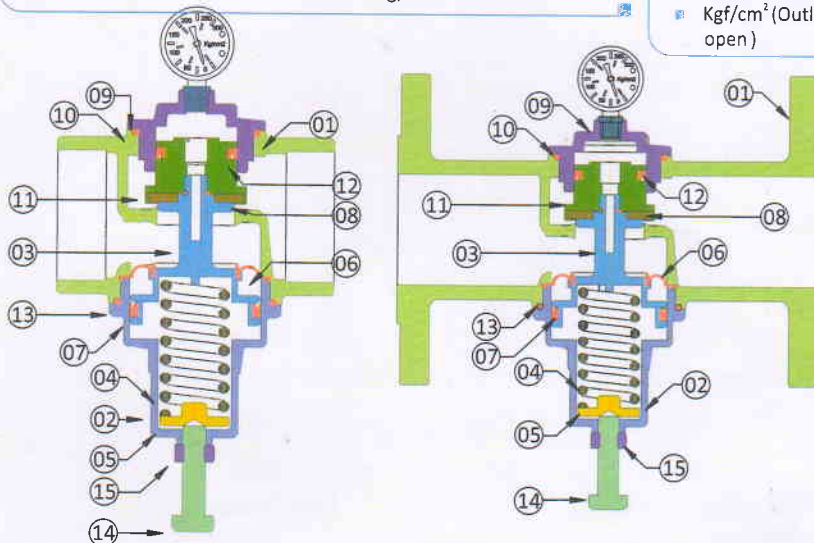
- Available different Models for Air, Wtare, Oil, Gas, Steam & Chemical
- LP - Low Pressure Range : 10 - 35 PSI
- HP - High Pressure Range : Max. Inlet 40 Kg/cm<sup>2</sup>  
Outlet 12 ~ 25 Kg/cm<sup>2</sup>  
20 ~ 35 Kg/cm<sup>2</sup>

### Example

- Pressure drop needed for fully - opened valve. gate for adjustable Pressure range 3 ~ 9 Kg/cm<sup>2</sup> of direct activated pressure reducing valve
- A = B / 4 = 9 - 3 = 1.5 Kg/cm<sup>2</sup>
- If the setting pressure of outlet 6 Kg/cm<sup>2</sup>, Pressure of fully - opened valve gate will be P = 6 - 1.5 = 4.5
- Kgf/cm<sup>2</sup> (Outlet Pressure should go down under 4.5 Kg/cm<sup>2</sup> to make valve gate fully open)



**Suzhik**



No.	Description	Material	Qty.
01	Body	CF8 / CF8M	01
02	Bonnet	CF8 / CF8M	01
03	Piston	CF8 / CF8M	01
04	Spring	S. S. 302	01
05	Spring Guide	Brass / S. S. 410	01
06	Diaphragm	NBR / Viton	01
07	Piston V - Seal	NBR / Viton	01
08	Washer	NBR / Viton	01
09	End Cover	CF8 / CF8M	01
10	End Cover 'O' - Ring	NBR / Viton	01
11	Plug	CF8 / CF8M	01
12	Plug V - Seal	NBR / Viton	01
13	Bonnet 'O' - Ring	NBR / Viton	01
14	Adjusting Bolts	S. S. 304 / 316	01
15	Adjusting Nut	S. S. 304 / 316	01