

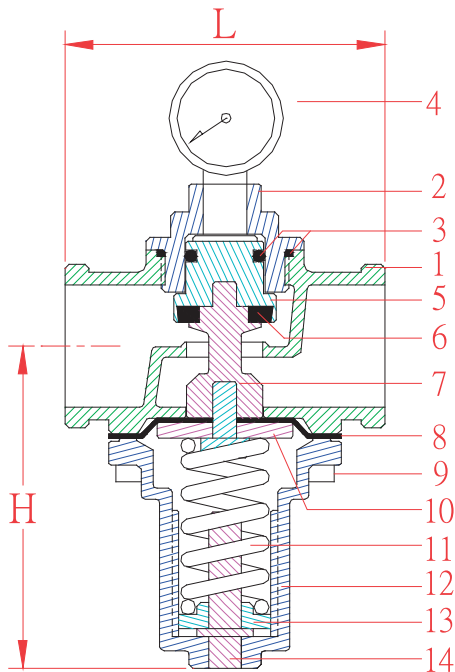


# DIRECT-ACTIVATED PRESSURE REDUCING VALVE

- ▶ The gate is designed for opening status, which will not influence the water supply function under unstable inlet pressure condition.
- ▶ When the outlet pressure responds directly to the pressure control chamber and adjusts the setting pressure, it responds quickly and adjusts the pressure accurately.



- ▶ Pressure Adjusting Range : 1~5 kgf/cm<sup>2</sup>  
4~9 kgf/cm<sup>2</sup>  
(special order is needed for other range)
- ▶ Valve Body Testing Pressure : 21 kgf/cm<sup>2</sup>
- ▶ Maximum Applied Pressure : 12 kgf/cm<sup>2</sup>
- ▶ Pressure needed from fully-closed gate to fully-opened gate : 1 kgf/cm<sup>2</sup> (1 kgf/cm<sup>2</sup>=14.2 psi)
- ▶ Applied Temperature : -15~80°C
- ▶ Applied Condition : Fluid & Air



| No | Part Name        | Material           |       |
|----|------------------|--------------------|-------|
| 1  | Body             | Bronze             | SS304 |
| 2  | Upper Cover      | Bronze             | SS304 |
| 3  | O-ring           | NBR                | NBR   |
| 4  | Gauge            | Iron               | SS304 |
| 5  | Piston           | Brass              | SS304 |
| 6  | Sealing          | NBR                | NBR   |
| 7  | Shaft            | Brass              | SS304 |
| 8  | Diaphragm        | NBR                |       |
| 9  | Fixed Bolt       | SS304              |       |
| 10 | Diaphragm Washer | SS304              |       |
| 11 | Spring           | Spring Steel       |       |
| 12 | Spring Cover     | Polyamide 66       |       |
| 13 | Spring Washer    | Electroplated Iron |       |
| 14 | Adjusting Bolt   | Brass              |       |

(Thread End)

| Item No | Size  | H(mm) | L(mm) | Weight(kg) | CV   |
|---------|-------|-------|-------|------------|------|
| RDT-15  | 1/2"  | 70    | 60    | 0.4        | 2.2  |
| RDT-20  | 3/4"  | 70    | 70    | 0.5        | 3.8  |
| RDT-25  | 1"    | 80    | 80    | 0.8        | 6.4  |
| RDT-32  | 1.25" | 85    | 90    | 1.5        | 10.3 |
| RDT-40  | 1.5"  | 110   | 110   | 2.5        | 12.6 |
| RDT-50  | 2"    | 115   | 115   | 3          | 17.2 |

$$CV = \frac{Q}{\sqrt{\Delta P/S}}$$

Q=GPM ( gallon/min )

$\Delta P = P1 - P2$  ( p.s.i )

P1=Inlet absolute pressure

P2=Outlet absolute pressure

S=Fluid Density ( Water=1 )

1 gallon=3.785 liter

