



## DIRECT-ACTIVATED PRESSURE REDUCING VALVE ( Stainless Steel 316 )

- ▶ Valve Body is made by Stainless Steel #316, suitable for fluid, air and steam.
- ▶ The gate is balanced-pressure designed, which will not influence the outlet pressure caused by unstable inlet pressure. Pressure needed from fully-closed gate to fully-opened gate : 1.5 kgf/cm<sup>2</sup>.
- ▶ When the outlet pressure responds directly to the pressure control chamber and adjusts the setting pressure, it responds quickly and adjusts the pressure accurately.
- ▶ Design of piston and diaphragm improves the inability of sustaining pressure and leakage.



▶ Pressure Adjusting Range : 1 ~ 6 kgf/cm<sup>2</sup>  
( 1 kgf/cm<sup>2</sup> = 14.2 psi)      4 ~ 10 kgf/cm<sup>2</sup>  
8 ~ 13 kgf/cm<sup>2</sup>

▶ Applied Temperature : -15 ~ 85 °C

▶ Valve Body Testing Pressure : 35 kgf/cm<sup>2</sup>

▶ Maximum Applied Pressure : 25 kgf/cm<sup>2</sup>

▶ Please cover steam pipelines with thermal materials

◎ Special order can be arranged for higher pressure adjustment range.

| No | Part Name      | Material            |
|----|----------------|---------------------|
| 1  | Pressure Gauge | Stainless Steel     |
| 2  | Upper Cover    | Stainless Steel 316 |
| 3  | O-ring         | NBR/Viton/Teflon    |
| 4  | U-ring         | NBR/Viton           |
| 5  | Piston         | Stainless Steel 316 |
| 6  | Sealing Spacer | NBR/Viton/Teflon    |
| 7  | Shaft          | Stainless Steel 316 |
| 8  | Diaphragm      | NBR/Viton           |
| 9  | Main Body      | Stainless Steel 316 |
| 10 | UH-ring        | NBR/Viton           |
| 11 | Fixed Bolt     | Stainless Steel 304 |
| 12 | Spring         | Spring Steel        |
| 13 | Lower Cover    | Stainless Steel 316 |
| 14 | Washer         | Brass               |
| 15 | Adjusting Stem | Stainless Steel 304 |

(Thread End)

| Item No | Size | H(mm) | L(mm) | Weight(kg) | CV   |
|---------|------|-------|-------|------------|------|
| RET15-S | 1/2" | 75    | 71    | 0.9        | 2.4  |
| RET20-S | 3/4" | 75    | 86    | 1.3        | 4.0  |
| RET25-S | 1"   | 81    | 90    | 1.6        | 6.5  |
| RET40-S | 1.5" | 115   | 115   | 2.9        | 13.0 |
| RET50-S | 2"   | 115   | 120   | 3.0        | 17.0 |

(PN16 Flange)

| Item No  | Size | H(mm) | L(mm) | Weight(kg) | CV    |
|----------|------|-------|-------|------------|-------|
| REF15-S  | 1/2" | 75    | 154   | 2.5        | 2.4   |
| REF20-S  | 3/4" | 82    | 154   | 3.3        | 4.0   |
| REF25-S  | 1"   | 82    | 154   | 3.5        | 6.5   |
| REF40-S  | 1.5" | 115   | 190   | 5.5        | 13.0  |
| REF50-S  | 2"   | 115   | 196   | 7.5        | 17.0  |
| REF65-S  | 2.5" | 185   | 210   | 14.5       | 30.0  |
| REF80-S  | 3"   | 185   | 229   | 15.5       | 42.0  |
| REF100-S | 4"   | 230   | 254   | 21.5       | 75.0  |
| REF150-S | 6"   | 290   | 310   | 45.0       | 170.0 |

