

## Pressure Reducing Valve

Fig. A200

### Function

Regardless of fluctuating flow rates and/or variations in inlet pressure, the WARCO pressure reducing valve automatically decreases higher inlet pressure to maintain a stable lower downstream pressure.

Operational Mechanism: As a precision pilot-controlled regulating valve, it maintains downstream pressure at a preset limit.

### Adjustment Range

0.35 ~ 5.60 Bar

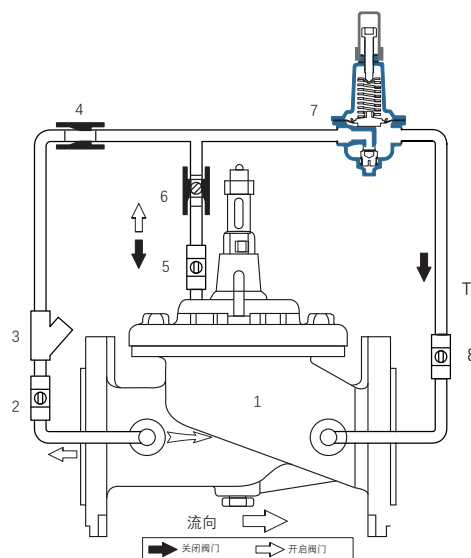
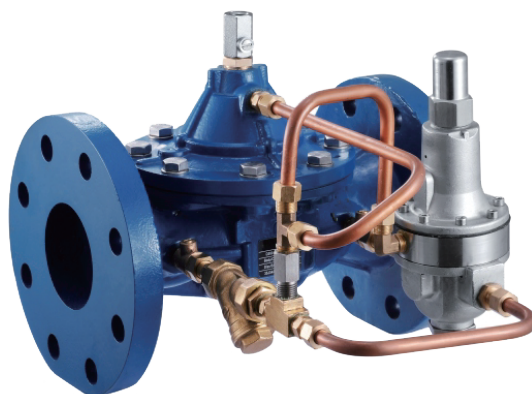
1.75 ~ 12.25 Bar (Default)

2.10 ~ 21.00 Bar

### Material

| No.                            | Part           | Material                   | Standard               |
|--------------------------------|----------------|----------------------------|------------------------|
| 1                              | Main valve     | Cast Steel<br>Ductile Iron | WCB A216<br>EN-JS 1050 |
| 2                              | Ball valve     | Brass                      | EN 12165 W603N         |
| 3                              | Strainer       | Brass                      | EN 12165 W603N         |
| 4                              | Orifice        | Brass                      | EN 12165 W603N         |
| 5                              | Ball valve     | Brass                      | EN 12165 W603N         |
| 6                              | Throttle valve | Brass                      | EN 12165 W603N         |
| 7                              | Pilot valve    | SS                         | BS970 304 S15          |
| 8                              | Ball valve     | Brass                      | EN 12165 W603N         |
| Verticle installation optional | Spring         | SS                         | BS970 304 S15          |

### Schema

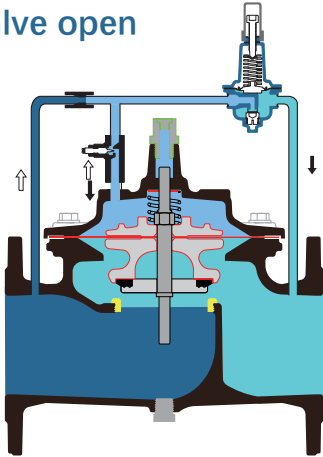


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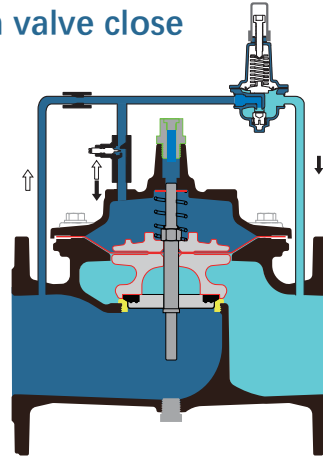
Fig. A200

### Working Principle

Main valve open



Main valve close

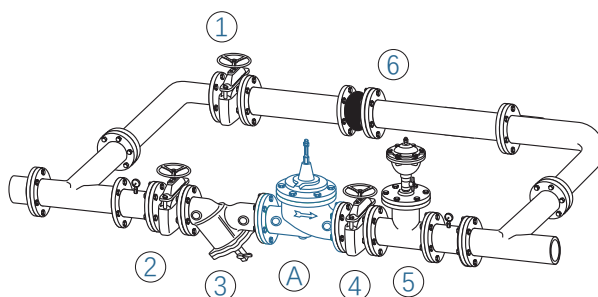


When the upstream pressure drops below the pilot valve's set pressure, the pilot valve closes, allowing water to enter the upper bonnet chamber of the main valve and forcing the main valve to shut.

When the upstream pressure exceeds the pilot valve's set pressure, the pilot valve opens, allowing the upper bonnet chamber of the main valve to drain and enabling the main valve to open.

1. Install a strainer upstream of the valve to effectively protect the main valve.
2. A front shut-off valve facilitates maintenance.
3. When the control valve is installed horizontally, the maximum allowable tilt angle must not exceed 45°.
4. For vertical installation, corresponding spring accessories (optional components) must be procured

### Typical Application



1、2、4: Cut-off Valve 3: Strainer 5: Air Vent 6: Connector A: Pressure Reducing Valve