

Product Features

- Precise pressure control
- Optional check feature
- Fast opening, to guarantee pipeline pressure
- Non-slam design, to prevent fluid impact
- Excellent and reliable sealing performance
- Built-in strainer, to prevent the piping system from blocking

RS500 pressure relief valve/pressure holding/back pressure valve is a fluid controlled valve. It can maintain pressure of the upstream pipe by regulating the diaphragm of the pressure regulator. The valve can be used in pressure relief, pressure holding and back pressure impact occasions.

During operation, the valve senses inlet pressure of the valve by the pressure regulator to control the valve to open or to close. When inlet pressure exceeds the set value, the valve will open quickly to maintain pressure in the pipelines. After pressure release, the valve will close slowly to prevent water hammer impact. If the optional check feature is selected, when the back pressure is generated, the return fluid will enter the air chamber to close the valve to prevent the fluid from back flow.

Material Specifications

Body/Bonnet: Ductile Iron/Stainless Steel
Disc & Stem: Stainless Steel
Piping: Bronze/Stainless Steel/Rubber Hose
Diaphragm: NBR
Fasteners and Springs: Stainless steel

Working Pressure Range

175PSI/235PSI/350PSI
 10Bar/16Bar/25Bar

Flange Standards

ANSI / BSEN / ISO / DIN

Temperature/Medium

0°C~100°C normal temperature water

Pressure Regulator Parameters

Pressure Regulating Range: 0.1~5 kgf/cm²,
 2~9 kgf/cm², 7~17 kgf/cm²

Pressure Regulator Material: Stainless Steel

Please Provide the Following Data When Ordering

Valve figure number/size/pressure grade/
 connecting end type/pressure regulating
 range/other optional accessories

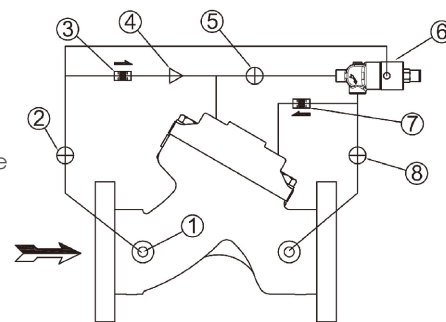
* Note: In valve installation, it is strongly suggested that sufficient space should be left for easy maintenance in the future. A strainer shall be mounted in front of the valve to prevent foreign matters from blocking the valve.



RS500

List of Accessories

- ① Strainer
- ② Ball Valve
- ③ Check Valve (Optional)
- ④ Needle Type Regulating Valve
- ⑤ Ball Valve
- ⑥ Pressure Regulator
- ⑦ Check Valve (Optional)
- ⑧ Ball Valve

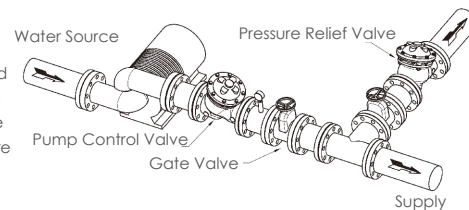


Piping Diagram

Typical Applications

● As a Pressure Relief Valve

To prevent high-pressure impact generated during pump shutdown, the quick opening and slow closing of the pressure relief valve can be used to release excess high pressure to protect the system.



● As a Pressure Holding Valve

When the valve is installed between the high-pressure supply at upstream and large-flow demand at downstream, it can be used as a pressure holding valve to maintain high pressure at upstream, also to prevent continuous pressure dropping in the main pipe due to excessive flow demand at downstream to maintain pressure in the main pipe.

