## Pump Control Valves

# **Product Features**

- Separately controllable opening and closing speed
- Manual operated electromagnetic control switch available.
- Excellent and reliable sealing performance
- Easy operation and maintenance
- Built-in strainer, to prevent the guide piping system from blocking

The pump control valve is installed at the pump outlet, controlled by the guide pipe to eliminate the impact of the fluid on the pipelines during pump start-up or power-off.

At pump start-up, the control valve is in closed state. After the start-up, the electromagnetic control switch is powered on; the valve will open gradually; the pressure in the pipeline rises slowly until the working head of the pump is reached.

When the pump receives the shutdown signal, the electromagnetic control switch will power off; the valve will start to close gradually; the flow in the pipeline gradually reduces while the water pump is still working. When the valve is fully closed, the limit switch installed on the valve will form an electronic interlocking relationship with the pump to cancel the pump start-up command, the pump stops.

#### **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

#### **Solenoid Valve Parameters**

Voltage Range: 110 V, 50~60 Hz, AC or 220 V, 50-60Hz, AC Body Material: Brass/Stainless Steel

#### Please Provide the Following Data When Ordering

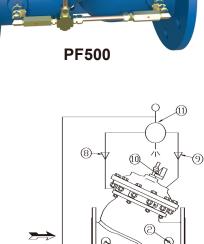
Valve figure number/size/pressure grade/ connecting end type/voltage range/other optional accessories

\* 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.

#### List of Accessories

1) Strainer

- ② Strainer③ Ball Valve
- ④ Ball Valve
- Check Valve
- 6 Check Valve
- ⑦ Three-Way Pilot Valve
- ⑧ Needle Type Regulating Valve⑨ Needle Type Regulating Valve
- 10 Limit Switch



Pump Side

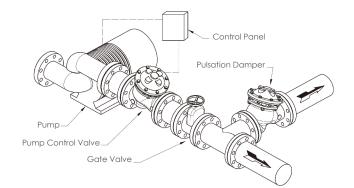
Piping Diagram

(5)

(1) Electromagnetic Control Switch

### **Typical Applications**

The installation of PF500 pump control valve is as shown in the diagram. The control circuits of the electromagnetic control switch and the limit switch must be sealed with flexible conduits.



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