



Alpine Flowtech

Control Valves, Sewage Air Valves, Controllers, Pressure, Flow, Level & Leakage Management.

Unit No. 1, B Wing, Swarajya Complex, Rajlaxmi Compound, Opp. Bewakoof Textile Factory Outlet, Kasheli, Kalher,

Tal. Bhiwandi, Dist. Thane Pin 421302. Contact: 8850001856/9867025324/8978558585.

Email: alpineflowtech@gmail.com. GSTIN - 27ABOFA0019J1Z1

Pump Control Valve - Series-A7XD - A Noble Soft Starter

Alpine/AFC brand, Ductile Iron, Straight Body, Double Flanged, Hydraulically operated, model A7XD double chamber pump control valve. The pump control valve (PCV) is a phenomenal product that acts as a soft starter. The whole objective is to achieve a soft and controlled opening of the valve during pump startup and achieving a soft and controlled closure during pump stop. This function provides a controlled opening and closing to prevent and mitigate the surges associated with opening and closing of the valve. The valve helps in optimizing the power run of the motor and surge protection aids in adding life to the costly Electro-Mechanical infrastructure. When the pump stops or goes out of electricity, the valve acts like a check valve. It blocks the 80% of the flow area quickly and closes slowly for the last 20% valve stroke. This prevents water hammer and water slamming. The seat ring, stem, springs all are corrosion resistant SS grade.

There are two types of pump control valves supplied by ALPINE/AFC:

1. Fully mechanical with adjustable opening and closing speed control.
2. Electrically Solenoid actuated with AC/DC solenoids for opening and closing the valve. The speed control is again achieved with opening and closing needle valves. These valves need a special panel for sequence. The sequence can either be pressure driven or timer driven.

Model A7MD-PCV Mechanically operated with manual speed control of valve opening and closing



Model A76D-PCV Solenoid Actuated. A special Pump Control panel is needed to actuate the on-off sequence of the valve.





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MATERIALS OF CONSTRUCTION:

1. Body, Bonnet, Disc Holder, Diaphragm, Upper plate in DI Grade GJS/SGI 500/7/GGG 50
2. Double guided Shaft/Stem for balanced stroke & control - in AISI SS 304/optional in SS 316
3. Body seat and retainer in AISI SS 304/optional in SS 316
4. High Performance Long Service Life Diaphragm in reinforced nylon fabric EPDM/NBR-food grade & WRAS approved.
5. Resilient seat and O rings in EPDM/NBR
6. Spring – AISI SS 304/optional in SS 316
7. High performance 24vDC/230-240 vAC solenoids in SS/Brass/Bronze.
8. Bushing in Brass – CZ 122
9. Hex Bolt, Washer, Nut in A2 AISI SS:304, corrosion resistant.
10. Tubings, Plugs and connecting fittings in rigid AISI SS 304
11. Extra tapping plugs for SCADA modifications and adding other features/pressure gauge.
12. Strainer, Needle Valves for speed control, Ball Valves for isolation in AISI SS 304.
13. Fusion bonded epoxy coating with a minimum 250-micron coating food grade WRAS approved.
14. PN 10, 16, 25 pressure rating and flange drilling options.
15. Optional Accessories: Air Vent Valve, Emergency Valve opening barrel with ball valve, Limit switch, Pump Control Panel with necessary sequence and relays and timers.

Special Features:

- A7XD is a double chamber pump control valve series which minimizes the head loss.
- The valve can be serviced in line
- Tight shut off
- Globe design for superior linear characteristics.
- Working Temperature: -10°C- 80°C
- Suitable for Raw as well as Pure Water.
- Meets standard BS EN 1074-5, ISO 5208, BS EN 12266-1, BS EN 558-1, BS EN 1092-2.