



Alpine Flowtech

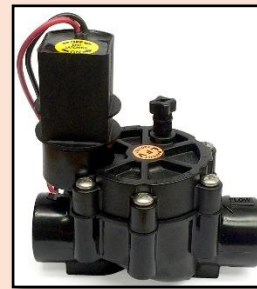
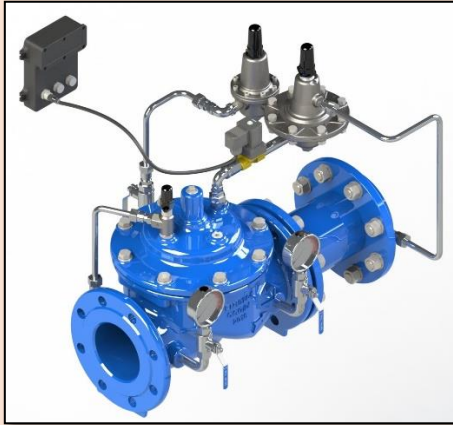
Control Valves, Sewage Air Valves, Controllers, Pressure, Flow, Level & Leakage Management.

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 - 27ABOFA0019J1ZI

ALPINE/AFC 5 in One VALVE



Alpine/AFC brand, Ductile Iron, Double Flanged, Straight body, Hydraulically Pilot operated **5 IN ONE Valve**. The valve is fully men-less and works automatically with a pre-set pressure and flow settings. It does not require AC supply and is fully mechanical. The on and off function is achieved by 9v batteries. **The valve runs on a very low operational cost and once installed the pay back can be monitored within 3-9 months of functionality.** The Valve is a boon for operating in tough, extreme, remote & critical locations. The seat ring, stem, springs all are corrosion resistant SS grade. The Valve performs the following functions:

5 IN ONE:

1. Pressure Reduction and maintaining a constant outlet pressure.
2. Maintaining a Fixed Flow Rate into the outlet side
3. Automatic On-Off with a 9 vDC battery actuator or a controller, PLC/RTU
4. Day Skip function for non-water supply days.
5. Anti-Cavitation option for a very high differential pressure.
6. Multi time zone water supply settings in one valve.
7. Multi zone water supply capability with add-on pilots
8. Emergency override switch for manual actuation.
9. Adjustable pressure and upto 15% adjustable flow range



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Advantages:

- ✓ Pressure management of remote locations or for locations where manpower is not easily available.
- ✓ DMA management and NRW reduction and helps in containing water loss due to excess pressure
- ✓ Pipeline Burst Control
- ✓ Controlled and Rationed water supply to areas with a very poor/nil cost recovery
- ✓ Very negligible operational cost. The cost of 2 9v batteries is just under Rs. 500 and needs to be replaced every 12-18 months.
- ✓ Energy saving of the electro-mechanical equipment
- ✓ Tapping management of Branch, Feeder
- ✓ Pressure sustaining of the main pipeline or HGL sustaining.
- ✓ Balancing of the Reservoirs
- ✓ Distribution efficiency from the Elevated reservoirs and automatic on-off with fixed pressure/flow to the distribution area.

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 in AISI SS 304/optional in SS 316 for balanced stroke & control
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. Bushing in Brass – CZ 122
8. Hex Bolt, Washer, Nut in A2 AISI SS:304, corrosion resistant.
9. Tubings, Plugs and connecting fittings in rigid AISI SS 304
10. Extra tapping plugs for SCADA modifications and adding other features/pressure gauge.
11. Strainer, Needle Valves for speed control, Ball Valves for isolation in AISI SS 304.
12. Pressure Reducing Pilot MoC SS 304.
13. Rate of Flow Control Pilot MoC SS 304
14. Latching solenoid and battery-operated timer, On-Off 9vDC battery switch system.
15. Optional Anti-Cavitation arrangement for very high differential pressure.



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16. Fusion bonded epoxy coating with a minimum 250-micron coating. WRAS approved.
17. PN 10, 16, 25 pressure rating and flange drilling options.
18. Optional Accessories: Air Vent Valve, Emergency Valve opening barrel with ball valve
19. Direct Membrane sealing Valve option also available upto 150 mm for optimizing the cost of Rural Water Supply Projects.

ADD-ON Features

- The valve can be serviced in line
- Tight shut off
- Globe design for superior linear characteristics.
- Sizes available 50 mm to 800 mm
- Temperature rating – 10 Deg.C to 80 Deg.C
- Meets standard BS EN 1074-5, ISO 5208, BS EN 12266-1, BS EN 558-1, BS EN 1092-2.