



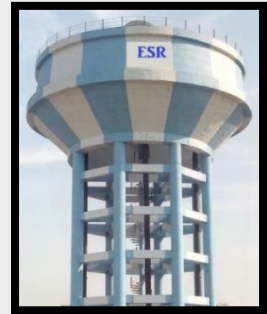
Alpine Flowtech

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.

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ALPINE/AFC – ONE WAY ALTITUDE LEVEL CONTROL VALVE. A-900 MODEL



Alpine/AFC brand, Ductile Iron, Straight Body, Double Flanged, Hydraulically operated, Altitude Valve for level control. The valve shuts when the tank water level reaches the adjustable full supply level and opens when the water level in tank falls below the setting. The valve helps in stopping the overflow as well as reducing NRW and helps in maintaining minimum head in the reservoir. It also helps in utilizing full reservoir capacity unlike the conventional float valve. The valve is fully mechanical and has an option to be electronically operated by a latching solenoid and battery timer. The valve can be upgraded to be modified to a fully SCADA operated valve by a PLC/RTU command. The valve is installed at the inlet of the tank at the ground level and a sensing line is connected from the tank washout/scour line to the Altitude Pilot. The connections are simple to be done at site. The settings can be done at site with the help of altitude gauge/pressure gauge. The valve has an adjustable minimum level control considering hydraulic modelling. The valve once fully open has a very negligible head loss. The valve is very easy to maintain and has a very long service life of more than 20 years. All the major internals are interchangeable. The seat ring, stem, springs all are corrosion resistant SS grade.

Advantages:

- ✓ No overflow
- ✓ Optimization of reservoir capacity.
- ✓ Range 3 meters to 40 meters height
- ✓ Minimum head loss
- ✓ Differential level control for DMA management and tail end service delivery
- ✓ Energy saving of electro-mechanical equipments
- ✓ Equitable distribution of water and balancing of reservoirs.
- ✓ No contamination as the valve is installed at the Ground Level

❖ Mumbai | Hyderabad | Ahmedabad

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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 in AISI SS 304/optional in SS 316 for balanced stroke and 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. Altitude Pilot MoC SS 304.
13. Fusion bonded epoxy coating with a minimum 250-micron coating. 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, Latching solenoid and battery-operated timer, On-Off 9vDC battery switch system. Flow Limiting pilot and Kit. SS 304/316 cavitation arrangement.
16. Direct Membrane sealing Valve option also available upto 150 mm for optimizing the cost of Rural Water Supply Projects.

Applications: Elevated Reservoir (ESR, OHT), Ground Level Reservoir, Master Balancing Reservoir

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.