



# 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,

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## ALPINE/AFC – ACTUATOR OPERATED PRV

### Functions and Advantages:



- Ω It's a Pressure reducing valve with a small actuator coupled on the PRV Pilot. The actuator is a very small and easy to fix. It can run on a very nominal power like 24 vDC/Solar. It also has AC option.
- Ω The changes in the pressure are done by a PLC/RTU with a web- based monitoring system. The pressure set points can be changed remotely/locally. The actuator works on the 4-20mA feedback. So, the increase/decrease in pressure set points is hands on.
- Ω The system saves on over-all cost and recurring power costs of the bulky 3 phase rotary actuators.
- Ω The valve is ideal for controlling as irrespective of fluctuations, the PRV can still maintain desired set point pressure.
- Ω The valve does all the functions of a mechanical PRV

## ALPINE/AFC TIME BASED PRESSURE REDUCING VALVE

### Function & Advantages:



Reducing Pressure has a direct co-relation with saving water. 1% reduction in pressure effects in 1.1% or more water saving. So, the water saving is greater that compared to the % reduction.

- Ω TB-PRV is a fantastic valve with option of 2 or more PR Pilots. The valve has 2 or more set-points, one for the High pressure that is required during the Day or to meet the morning and evening peak factors and one low pressure set-point for the night-time when the water demand is not high.
- Ω The valve has a timer and a latching solenoid, during high demand, the supply to the low-pressure pilot is disconnected by the solenoid and during low demand the vice versa. The valve is cost effective as it can operate on 9v batteries.
- Ω The valve helps in day and night-time pressure management. During night-time the pipeline burst frequencies are very high also the water loss is high due to background leakages in the pressurized pipeline going static. This valve helps in reducing high night-time pressure and thus helping in reducing NRW, Burst frequencies.
- Ω The valve is best suited for continuous water system and for DMA management. The valve can save a lot of money to the operators as they can add a lot of service connections by the water saved with this valve during night-time and non-peak hours.



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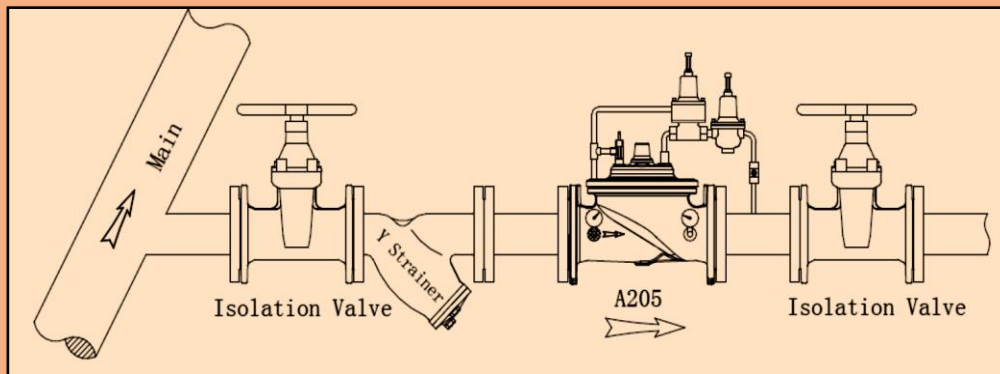
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## ALPINE/AFC – PRESSURE SUSTAINING & REDUCING VALVE

### Functions and Advantages:

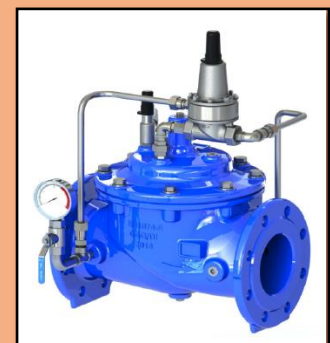
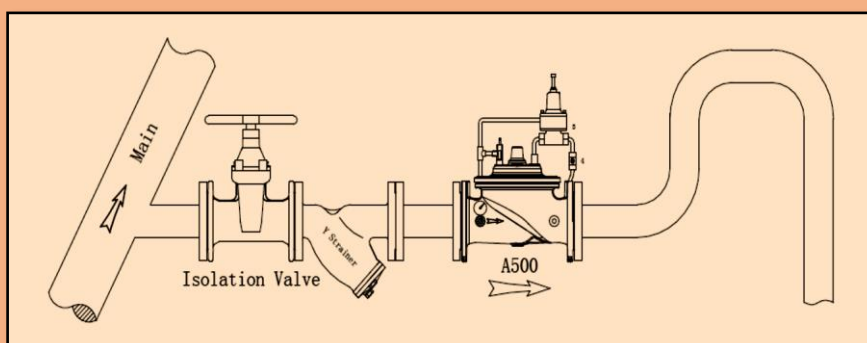
- The valve maintains the upstream HGL. The sustaining pilot maintains the required upstream pressure and the pressure reducing pilot is activated only when the downstream pressure exceeds the upstream pressure.
- Under normal pressure conditions, the PRV pilot reduces the higher upstream pressure and keeps the downstream pressure as per the adjustable pilot setting, regardless of variation of upstream pressure or downstream flow.
- The Sustaining function is ideal for critical users, tail end users, tank feeders, bulk transmissions line with branches.
- The sustaining function can save substantial cost to the utilities and save power as efficient pressure management can be achieved by sustaining function.



## ALPINE/AFC PRESSURE RELIEF & SUSTAINING VALVE

### Function & Advantages:

- The valve is typically installed near the main header/rising main and is set above the working pressure. If the system pressure exceeds the set pressure, the valves opens and relieves the excess pressure into the atmosphere/suction tank/river/lake/reservoir. Once the system pressure stabilizes, the valves gets shut until the next pressure spike.
- The valve also acts as a sustaining valve and prevents the pressure drop in the main line at the set point of the sustaining pilot. The Sustaining function is ideal for critical users, end users, tank feeders, bulk transmissions line with branches.



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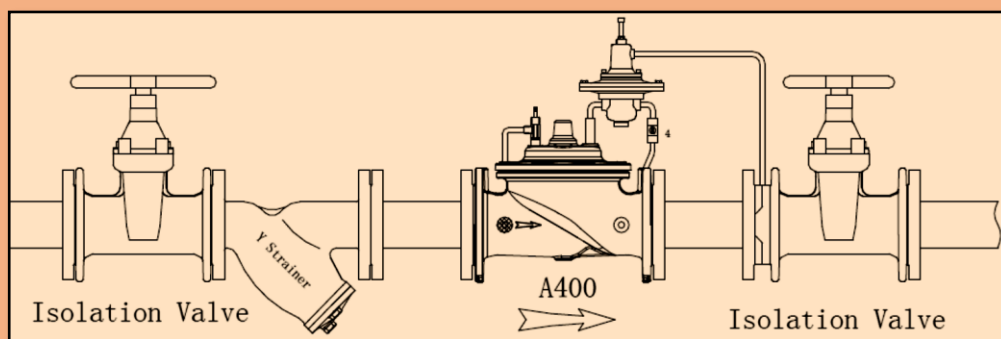
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## ALPINE/AFC – FLOW LIMITING CONTROL VALVE

### Functions and Advantages:

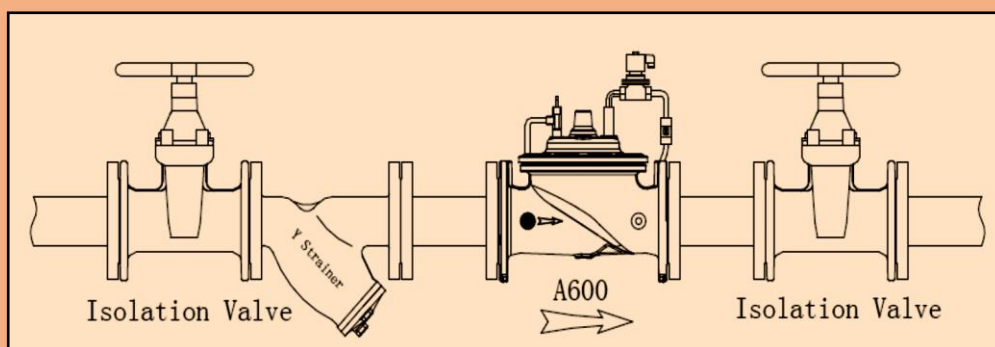
- Maintains a constant flow, regardless of fluctuations of system pressure. The adjustable rate of flow pilot senses the pressure differential across an orifice plate mounted at the valve outlet flange. Whenever the system pressure changes, the flow pilot responds and modulates the main valve to maintain the desired fixed flow. The valve operates with an accuracy of +/- 2-3%.
- The valve is ideal for feeding tanks, branches from feeders, specialized operations where fixed flow is needed, tapping management systems, distribution outlets of tanks, supplying areas where cost recovery is not possible for some reasons.
- The Valve can be automated by adding a solenoid, so when the solenoid will be energized the valve will supply at a fixed flow rate



## ALPINE/AFC SOLENOID ON-OFF VALVE

### Functions & Advantages:

- The Valve has a 2-way solenoid to energize to open the main valve and vice versa to close the valve. The needle valve can regulate the opening and closing speed.
- The valve can be remotely commanded to open and shut.
- The Valve is ideal for applications like filter beds on-off, distribution on-off, Tank feed on-off, and many single function applications where simple on-off is needed with Linearity of flow.





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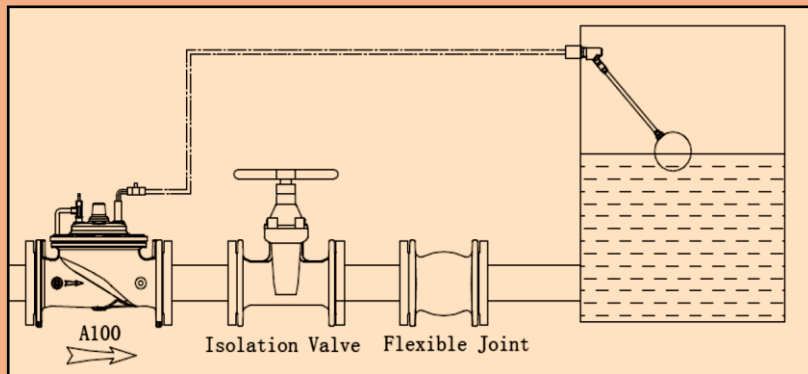
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## ALPINE/AFC - FLOAT CONTROL VALVE

### Functions and Advantages:

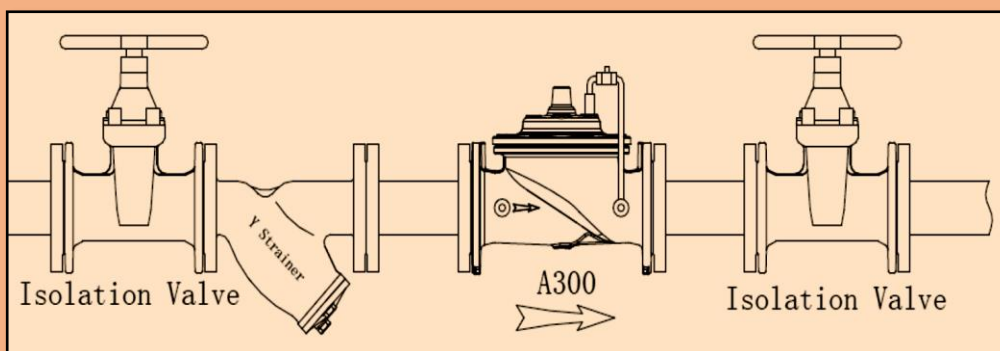
- When water level reaches FSL mark, the float pilot will shut and close the main valve.
- Whenever the water level drops, the float pilot will open, and main valve will start filling the tank.
- Fully Mechanical, helps in reducing NRW and water and energy loss due to overflow. Ideal for small and Rural schemes where cost and technical manpower is a major concern.
- Manpower not needed at site.
- Can be automated for on-off by a remote command.
- Upgradable to meet SCADA and PLC/RTU based operation.



## ALPINE/AFC SLOW CONTROL CHECK VALVE

### Functions & Advantages:

- Functions as the check valve and can control the closing speed to mitigate water hammer.
- Prevents back water in a loop or DMA.
- Can be triggered to close by adding a solenoid in a pump delivery or rising main.
- A ball valve is used to close the valve manually and the closing speed is determined by the adjustment of the Needle Valve, thus even at a high shut off head, this valve can be easily operated by one person without any effort.







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## MATERIALS OF CONSTRUCTION, OPTIONALS & TECHNICAL DATA

Sr. No.	Description	Grade, Details
1	Body, Bonnet, Disc Holder, Diaphragm Upper Plate	DI Grade GJS/SGI 500/7/GGG 50
2	Double guided Shaft/Stem	AISI SS 304/optional in SS 316 for balanced stroke & control
3	Body Seat and Retainer	AISI SS 304/optional in SS 316
4	High Performance Diaphragm	Reinforced nylon fabric EPDM/NBR-food grade. WRAS approved.
5	Resilient Seat and O rings	EPDM/NBR. WRAS approved
6	Spring	AISI SS 304/optional in SS 316
7	Bushing in Brass	CZ 122
8	Hex Bolt, Washer, Nut	A2 AISI SS:304, corrosion resistant
9	Tubings, Plugs and connecting fittings	Rigid AISI SS 304
10	Extra tapping plugs for SCADA modifications and adding other features/pressure gauge	AISI SS 304
11	Strainer, Needle Valves for speed control, Ball Valves for isolation	AISI SS 304
12	Various Pilots	AISI SS 304
13	Fusion Bonded Epoxy Coating with a Minimum 250-Micron Coating.	RAL Blue/Similar. WRAS approved.
14	Pressure Rating and Flange Drilling Options	PN 10, 16, 25
15	Optional Accessories: Air Vent Valve, Glass Position Indicator, Emergency Valve opening barrel with ball valve, Latching solenoid and battery-operated timer, Pressure Gauges, Surge Anticipating Panel, FCV Controller, Pressure Transmitter, Pressure Switch, On-Off 9vDC battery switch system. 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.	
The valve can be serviced in line as the valve is Straight Body.		Globe design for superior linear characteristics. Best suited for controlling operations
Tight shut off due to internal weight of the disc		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



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## HEAD LOSS & CAVITATION DATA CONTROL VALVES

