GE Infrastructure
Water & Process Technologies

Autotrol 255
Series Control Valves

Product Information

GE Osmonics has taken the proven performance of the industry-standard Autotrol 155 conditioning valve, long the heart of the most reliable and durable residential valve available and made it even stronger, and more economical and efficient than ever. The Autotrol 255 valve features a rugged, robust, re-engineered design that uses less water, runs quieter and lasts longer than ever! The 255 valve also features the unique Autotrol valve-disc technology. This allows the control valve to work independent of water pressure and makes the 255 valve self-cleaning! The Autotrol 255 valve also features a standard 5 year limited warranty.

The Autotrol 255 valve comes with a number of different controller options. For a dependable mechanical timer controller, try the economical Autotrol 440i control or the professional-series 940 timer control. For demand-based convenience, try the Autotrol 460i control or the professional-series 960 timer control. For maximum efficiency, the unique Autotrol Sentinel™ 415 sensor-based control actually senses the state of the resin bed and regenerates only the exhaust portion.

255 Valve Upgraded Features

The Autotrol 255 valve is constantly upgraded to provide the most efficient technology at the most economic price available. Osmonics now offers the rugged Autotrol 256 bypass valve. The 256 bypass allows the control valve to be isolated from water flow, but still provide water to the home. This is helpful during the routine maintenance of the valve. Each 255 valve is available with the 256 bypass valve option. The Autotrol 255 valve also is available with a number of different cover options, each suited for different applications. The I-Lid cover is for use with the 400 series controls, and features a tinted faceplate, so the LED can be read at any time. The L-Lid is the standard 255 cover, covering the control and camshaft, while leaving the air-check visible. The high style cover completely surrounds the entire control valve, and fits together for a tight seal for the ultimate in protection. Finally, for the 900 series controls, the rugged 900 series cover will stand up to the most undesirable elements.

All Autotrol 255 valves come with a wide variety of plumbing connectors and tub adapters for world-wide applications.

The Autotrol turbulator is a convenient solution for high iron problems. Using a high-velocity water stream, the turbulator vigorously cleans resin beds through increased lifting and agitation.

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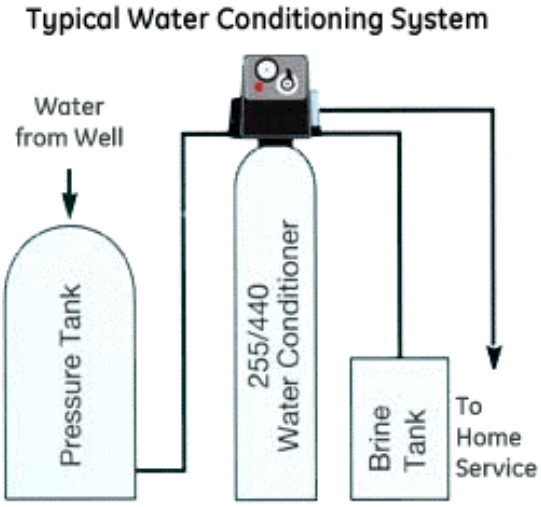

During normal conditioning, raw water enters the system through an inlet at the top of the conditioning tank. As it seeps down through the conditioning bed, foreign particles and minerals are collected on the ion exchange sites of the resin, so that you can enjoy the quality and convenience of conditioned water.
During the regeneration cycle, the 255 valve automatically regenerates the ion exchange resin.

Fast, easy settings for even greater water savings.

With just two simple settings, your 255 Valve with the 440 clock timer control can be programmed to automatically initiate the regeneration of your water conditioning system and save water with each regeneration.

- The redesigned valve uses substantially less water to regenerate the system.
- Larger, stronger injector and screen caps seat positively for better operation.
- Redesigned valve discs ensure positive sealing and last longer.
- New streamlined interior valve sections allow for better flow rates.
- Simple design and rugged construction ensure years of trouble-free performance.
- No moving parts in the water stream helps to prevent fouling, especially in iron-bearing or other types of problem water.
- Valve-disc flappers are held closed by water pressure to ensure a leaktight seal.
- A unique, convenient separation feature allows the control module to be entirely removed from the valve by simply pulling out the locking bar.
- An automatic backwash controller is incorporated right into the system.
- **An internal bypass** automatically provides water while the system is being regenerated.
- The optional 256 bypass valve allows the entire water conditioning system to be bypassed when necessary.

Specification

Hydrostatic test pressure	300 psi (20.69 bar)
Working Pressure	20-127 psi (1.38-8.76 bar)
Pressure tank thread	2-1/2 inch-8NPSM male
Brine line thread	1/4 inch NPT female
Distributor tube diameter required	1.05 inch OD (26.67 mm)
Distributor tube length	1-1/4 inch (31.8 mm) higher than top of resin tank
Manifold connection options	3/4 inch NPT inlet-outlet, 1/2 inch NPT drain (Noryl*); 1 inch NPT inlet-outlet, 1/2 inch NPT drain (Noryl or brass): 3/4 inch NPT inlet-outlet, 3/8 inch NPT drain (brass)
Optional bypass valve	3/4 inch or 1 inch copper tailpiece; 1 inch brass NPT male tailpiece; 3/4 inch CPVC or 1 inch CPVC tube adapter; 1/2 inch NPT male drain
Control module, tank adapter, optional bypass valve	Fiberglass reinforced Noryl Compounded for cold water service
Rubber goods	440 program clock timer available in six- or seven-day English language
Control options	460i microprocessor demand control
Brine control system	Parts group "1" adjustable up to 10 pounds (4.5 kg) of salt Parts group "2" adjustable up to 19 pounds (8.6 kg) of salt
Injector size "A" group	Nozzle 0.042 inch (1.1 mm) diameter, throat-inlet 0.089 inch (2.3mm) diameter
Injector size "B" group	Nozzle 0.052 inch (1.3 mm) diameter, throat-inlet 0.099 inch (2.5 mm) diameter
Injector size "C" group	Nozzle 0.059 inch (1.5 mm) diameter, throat-inlet 0.099 inch (2.5 mm) diameter
Backwash controllers available	For 6, 7, 8, 9, 10 and 12 inch (15.2, 17.8, 20.3, 22.9, 25.4 and 30.5 cm diameter resin tanks; all are sized to flow 5.0 gpm/sq. ft. (18.9 Lpm/m) of bed area

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