



Back (without cover)

Features

- Simple mechanical design is easy to use
- Two valve body designs: one for downflow regeneration and one for upflow (covers every valve in the 5600 family - quick access to all internal components)
- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly-built timer is designed with heavy-duty 3/8" wide plastic gears
- 5600 controls are user-friendly
- Non-corrosive, UV-resistant, fiber-reinforced polymer valve body
- Economical - small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

Options

- Bypass valve (Fiber-reinforced polymer or stainless steel)
- Low water use piston (uses as little as 29 gal./regeneration)
- Choice of 7 or 12 day clock timers
- Filter or softener control valve
- Upflow or downflow regeneration control valve

Valve Specifications

Valve material	Fiber-reinforced polymer
Inlet/Outlet	3/4", 1", 1-1/4"
Cycles	7

Flow Rates (50 psi Inlet) - Valve Alone

Continuous (15 psi drop)	20 GPM
Peak (25 psi drop)	26 GPM
Cv (flow at 1 psi drop)	5
Max. backwash (25 psi drop)	7 GPM

Regeneration

Downflow/Upflow	Both
Adjustable cycles	Brine fill only
Time available	180 minutes per cycle

Meter Information

Meter accuracy	.25 - 15 GPM +/- 5%
Meter capacity range (gal.)	Standard: 125 - 2,125 Extended: 625 - 10,625

Dimensions

Distributor pilot	13/16" or 1.05" O.D.
Drain line	1/2" NPTF
Injector brine system	1600
Brine line	3/8"
Mounting base	2-1/2" - 8 NPSM
Height from top of tank	7"

Typical Applications

Water softener	6" - 12" diameter
Filters	8" - 10" diameter

Electrical rating

24 v, 110 v, 220 v - 50 Hz, 60 Hz *

Additional Information

Estimated shipping weight	Time clock: 5 lbs Metered valve: 6 lbs.
Pressure	Hydrostatic: 300 psi Working: 20 - 125 psi
Temperature	34° - 110° F

Approvals

NSF Standard 44 Certified
UL registered components

* 24 VAC Pentair Transformers:
115 VAC +/- 20% Input, 24 VAC Output
230 VAC +/- 20% Input, 24 VAC Output

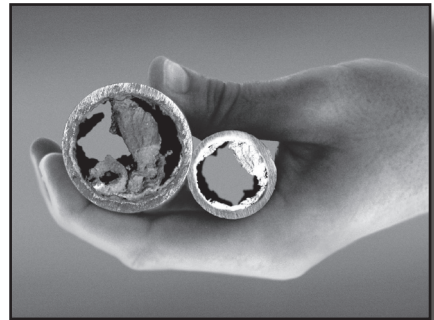


5600 / 5600 Econominder Owner's Manual



For questions or in case of emergency, please call your local service technician (preferably the one who installed the system).

Product Features, Benefits, & Job Specification Sheet



Congratulations on the purchase of your new water treatment system with the 5600 control valve. You will have peace of mind knowing your system will bring you years of treated water use and enjoyment.

Product Features & Benefits

- Rugged, simple design
- Non-corrosive, UV-resistant valve body
- Economical (small annual power consumption)

Eliminate:

- Stains
- Scale Deposits
- Soap Scum
- Clogged Plumbing
- Dissolved Minerals

Enjoy:

- Longer Lasting Appliances (up to 30% longer)
- Less Detergent/Soap/Cleanser Use
- Greater Lathering of Soap
- Cleaner Dishes, Towels, Linens
- Softer Hands

Job No. _____

Model No. _____

Water Test _____

Capacity Per Unit _____ Maximum _____ Per Regeneration

Mineral Tank Size _____ Diameter _____ Height

Brine Tank Size & Salt Setting per Regeneration _____

Control Valve Specifications

Type of Timer: _____ Std. _____ "L" _____ 7-Day _____ 12-Day _____ Meter, Std. _____ Meter, Ext.

Day/Time of Regeneration: _____

Drain Line Flow Control: _____ gpm

Brine Refill Rate: _____ gpm

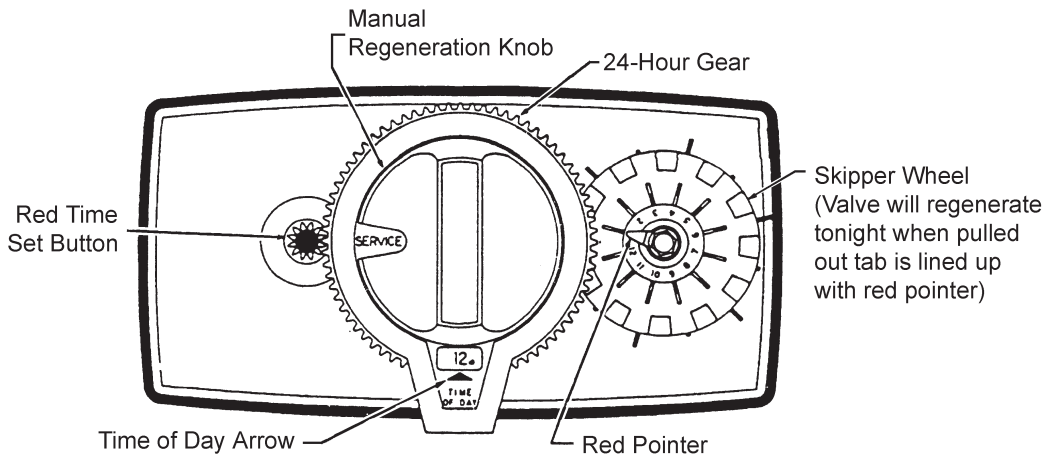
Injector Size: _____ gpm

Meter Gallon Setting _____ Gallons

IMPORTANT: The information, specifications and illustrations in this manual are based on the latest information available at the time of printing. The manufacturer reserves the right to make changes at any time without notice.

Setting Time of Day & Initiating a Manual Regeneration

5600 Model



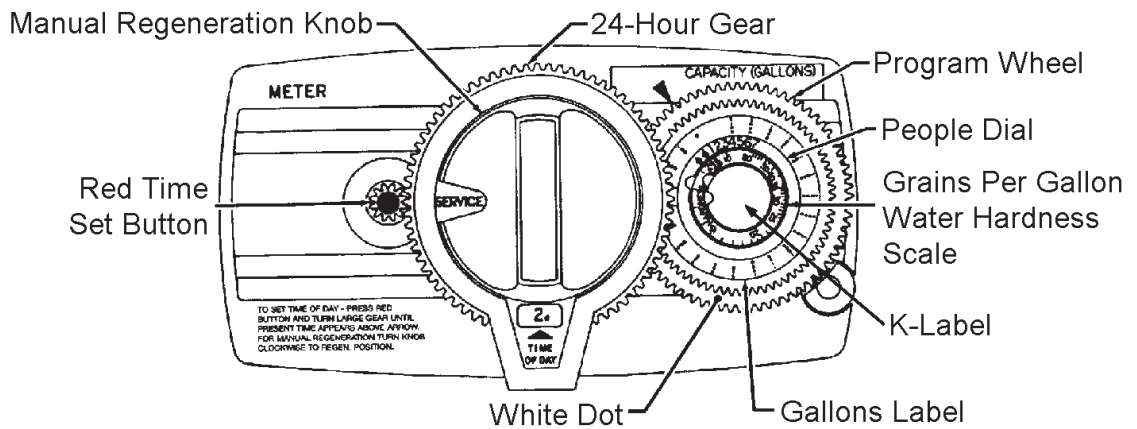
Setting the Time of Day:

To set the time of day, push the red button and spin the 24-hour gear until the present time of day is visible above the time of day arrow.

Forcing a Manual Regeneration:

To manually regenerate the valve, turn the manual regeneration knob clockwise until it reads "REGEN."

5600 Econominder Model



Setting the Time of Day:

To set the time of day, push the red button and spin the 24-hour gear until the present time of day is visible above the time of day arrow.

Setting the Program Wheel:

To set the program wheel, lift the "people" dial and rotate it so that the number of people in the household is aligned with the household grains per gallon water hardness. Release the dial and check for firm alignment at the setting. This provides reserve capacity based on 75 gallons per person.

Forcing a Manual Regeneration:

To manually regenerate valve, turn the manual regeneration knob clockwise until it reads "REGEN."

NOTE: Unit will regenerate tonight when the gallon capacity reaches zero.

Descriptions of Softener & Filter Control Valve Positions

Service:

Hard water enters unit at valve inlet and flows down through the mineral in the mineral tank. Conditioned water enters center tube through the bottom distributor, then flows up through the center tube, around the piston, and out the outlet of the valve.

Preliminary Rinse:

Slow rinse of the resin bed. Water flows down through the resin bed up the bottom distributor and out the drain.

Backwash:

Hard water enters unit at valve inlet, flows through piston, down center tube, through bottom distributor, and up through the mineral, around the piston and out the drain line.

Water is passed through the resin bed in the opposite direction of normal flow, which flushes suspended matter out of the resin tank. Backwashing also loosens the resin bed which becomes compacted during the softening (in service) cycle.

Brine/Slow Rinse (Softener Only):

Hard water enters unit at valve inlet, flows up into injector housing and down through nozzle and throat to draw brine from the brine tank, brine flows down through mineral and enters the center tube through bottom distributor and out through the drain line.

The resin beads are washed with the strong solution of salt water which is called the brine solution. Since the resin beads prefer calcium and magnesium ions, the slow rinse allows an overwhelming concentration of sodium ions to overpower and force the calcium and magnesium ions off of the resin beads and are then discharged down the drain.

Rapid Rinse:

The resin bed is rinsed to remove excess brine solution from the tank and the resin beads are then ready to produce soft water again.

Hard water enters unit at valve inlet, flows through piston, down center tube, through bottom distributor, and up through the mineral, around the piston and out the drain line.

Settling Rinse:

Slow rinse of the resin bed. Water flows down through the resin bed up the bottom distributor and out the drain.

Brine Tank Refill (Softener Only):

Hard water enters unit at valve inlet, flows up through the injector housing, through the brine valve to refill the brine tank. Valve is now delivering soft water to the home. Raw water is refilling the brine tank to make a brine solution for the next regeneration.

Regeneration:

When the valve is in Regeneration, raw water is being passed to service until rapid rinse is complete.



Illustration of Water Flowing Through a System

General Residential Checklist & Troubleshooting

Adding Salt

Ensure that the salt level in the brine tank is always above the water line.

Water Pressure

Water pressure range of 20-125 psi is required for regeneration valve to operate effectively.

Electrical Facilities

An uninterrupted alternating current (A/C) supply is required. Please make sure voltage supply is compatible with unit before installation.

Existing Plumbing

Condition of existing plumbing should be free from lime and iron buildup. Replace piping that has heavy lime and/or iron build-up. If piping is clogged with iron, install a separate iron filter unit ahead of the water softener.

Location of Softener, Drain & Brine Tank

Locate the softener close to a clean working drain and connect according to local plumbing codes. The brine tank should be located within 20 feet of the water softener. Drain cannot be elevated more than 36 inches or exceed 20 feet in length.

Bypass Valves

Always provide for the installation of a bypass valve if unit is not equipped with one. If valve is leaking, turn bypass from In Service to the Bypass Position.

NOTE: If the valve continues to leak after turning the bypass to bypass position, shut off the main water line and call your local service technician (preferably the one who installed the system) IMMEDIATELY.



CAUTION

- Do Not Exceed Water Pressure of 125 psi.
- Do Not Exceed 110° F.
- Do Not Subject Unit to Freezing Conditions.

Problem	Solution
Control valve fails to regenerate	Check for power outage and verify unit is plugged in. If this does not work, contact your local water service technician (preferably the one who installed the system).
Water does not feel or appear soft	Check salt level in brine tank & maintain salt level above water level. If problem still exists, contact your local water service technician.
Unit uses too much salt	Contact your local water service technician.
Loss of water pressure	
Iron in conditioned water	
Excessive water in brine tank	
Other problems with the water softener	
Power Outage	Reset the Time of Day in the event of a power outage/failure. See "Setting the Time of Day" page.

5600 Time Clock & Econominder Models

5600 Time Clock



5600 Econominder



5600 L-Style Econominder & Time Clock Models

5600 L-Style Econominder



5600 L-Style Time Clock



**To Download the Service Manual
for this Valve, please visit:**

www.fleckcontrols.com