





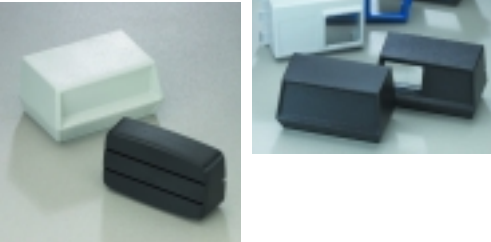






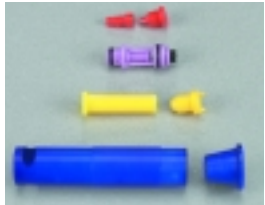

Options & Accessories Definitions

Option / Accessory	Description
Adapter Base	<p>Top Mount Threaded – Valve threaded on top of a tank adapter to allow the tank to be plumbed.</p> <p>Side Mount – Valve threaded on the side of a tank adapter.</p> <p>Rotating Side Mount – Adjustable adapter to allow the valve to be plumbed on the side of a tank.</p> <p>Flange Mount – Valve mounted on a tank that is not threaded to the tank.</p>
	
	Side mount adapter
Air Check	<p>Prevents air from being drawn into the valve. Located at the bottom of the brine tank.</p>
	
Angle Fittings	<p>90° angle fittings reduce installation costs and minimize space requirements. Available in Noryl® and lead-free brass. Used on residential valves between valve body and yoke or bypass.</p>
	
Auxiliary Switch	<p>Signal after Rapid Rinse or Brine Tank Fill. Refers to when the auxiliary switch is activated.</p> <p>Aux Switch – An extra (auxiliary) micro switch that is not automatically included as part of a control valve or system.</p> <p>Aux Switch Signal After Brine Tank Fill – The switch “makes” contact at the beginning of the regeneration cycle, and “breaks” contact at the end of the Brine Tank Fill cycle.</p> <p>Aux Switch Signal After Rapid Rinse – The switch “makes” contact at the beginning of the Regeneration cycle, and “breaks” contact at the end of the Rapid Rinse cycle.</p> <p>Aux Switch Signal At Home (Service) – The switch “makes” contact at the beginning of the Regeneration cycle, and “breaks” contact at the end of the Regeneration cycle (when the timer “homes out”).</p> <p>Aux Switch Timer, Includes Aux Switch – An extra (auxiliary) micro switch that is not automatically included as part of a timer. A single auxiliary switch is mounted under the timer program wheel.</p> <p>Aux Switch Timer, Includes Second Aux Switch – A second extra (auxiliary) micro switch that is not automatically included as part of a timer. When needed, a second auxiliary switch is mounted next to the two standard (program & home) switches.</p>

Options & Accessories Definitions

Option / Accessory	Description	
Backwash Filter	Valve without injector or brine system for filter systems.	
Brine Line Flow Control (BLFC)	Accurate flow controls from .125 gpm to 10 gpm to regulate brine refill rates.	
Brine Valves	<p>Timed Brine (Mounted) – System is controlled by a flow control and timer and fills for a predetermined amount of time.</p> <p>Sizing – The size of the brine system on a control valve.</p> <ul style="list-style-type: none"> • 1600 – 3/8" brass and is generally used on tank sizes up to 16" in diameter. • 1650 – 3/8" Noryl®. • 1700 – 1/2", and is generally used on tank sizes from 18" to 30" in diameter. • 1705 – 1/2" for 2930 and 3130 valve. • 1800 – 3/4" (1" plumbing connection), and is generally used on tank sizes from 30" to 60" in diameter. <p>See also Safety Brine Valve.</p>	
Bypass Valve	Solid lead-free brass, stainless steel or Noryl® construction. Simple operation for long life, dependability for ease of operation. Quick connect attachment to most residential Fleck valve bodies makes installation and removal fast and easy.	
Cams	<p>Drive Cam – Determines the order of regeneration steps a valve goes through. Cams are usually color coded on each valve model.</p> <p>Brine Side Cam – Determines when the brine valve opens or closes for filling or drawing brine.</p> <p>Double Backwash Cam – Allows a second backwash after brining (see Valve Overview Chart for which valve models this option is available).</p> <p><small>*Exception for 3150/3900 where Drive Cam and Brine Side Cam are combined</small></p>	
Continuous Velocity (CV)	<p>Valve/flow coefficient at 15 psi pressure drop.</p> <p>CV = Flow rate divided by square root of pressure drop.</p>	
Covers	A wide variety of cover designs and colors are available for Fleck controls. Primary color choices are shown here and two tone combinations can also be provided in some instances.	
Distributor	Distributes flow evenly at the bottom of the resin tank. Available in coarse, fine mesh, standard and hot water.	

Options & Accessories Definitions

Option / Accessory	Description	
Drain Line Flow Control (DLFC)	Accurate flow controls from .6 gpm to 100 gpm to regulate backwash rates.	
Environmental Covers and Backplates	Equivalent to a NEMA 3R rating.	
Hot Water Option	Refers to the materials within a control valve that are substituted so that the valve can withstand water temperatures up to 150° F (metered valves with brass meters), or 180° F (most time clock valves made of brass).	
Injectors	We produce a wide variety of injectors. The injector creates a vacuum to draw the brine out of the brine tank. The 1600 injector comes in stainless steel, PVC. Regulated injectors come with a regulated injector cap to maintain consistent pressure.	
Manual Control	For applications where conditioned water is only required on an intermittent basis, such as cabins, RVs, or when AC power is not available. Allows you to manually control regeneration times and frequencies.	
No Hard Water Bypass Piston (NHWBP)	Internally prevents raw water from getting into service lines during regeneration.	
Parts Kits	Easy-to-follow manuals and service kits containing tools and high usage parts simplify trouble-shooting and servicing. Included with standard Fleck valves: a service manual, or a bag containing a service manual and any small parts included with a control valve. (Examples are brine line nuts, ferrules, brass inserts, and screens).	

Options, Accessories & Definitions

Option / Accessory	Description
Quick Connect (QC)	Parts like drain lines and adapter bases that connect or disconnect without being threaded.

Regeneration Flow Regenerate flow during brine draw.



Downflow (cocurrent)
Flow of brine from the top to the bottom of the tank.



Upflow (countercurrent)
Flow of brine from the bottom to the top of the tank.

Remote Signal Start Refers to how the regeneration cycle is initiated on a control valve. An electric signal is sent by a remote meter or pressure differential switch, etc., accepted by an immediate timer on a control valve.

Safety Brine Valve For proper filling or precaution against brine tank overflow.

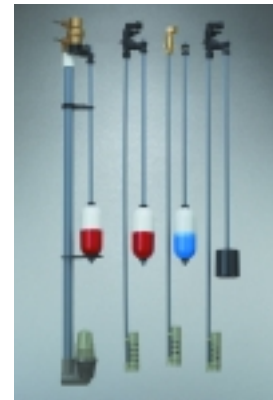
Float Fill System – When water gets to a preset height, the valve will shut off filling.

Brass Elbow – FFA and FFS describe in what direction the elbow points.

FFA – Fitting Faces the float Arm

FFS – Fitting Faces the mounting Stud

Noryl® elbow has a swivel that is adjustable in both directions.



Seal and O-Ring Materials The material that the piston seals are made of. An exception is “560CD” which refers to the material that all rubber seals and o-rings (that come in contact with water) are made of, within a control valve (required in many European countries).

Silicone – Excellent chemical compatibility. Used in troubled water applications and for water with chloramines.

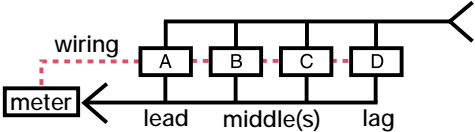
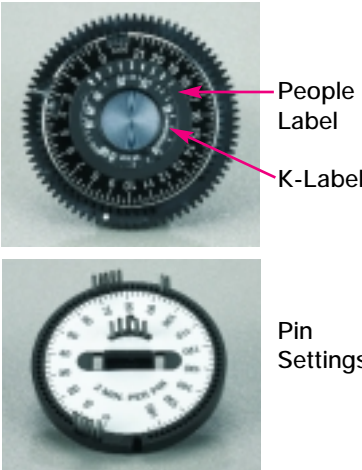
Viton (Fluorocarbon) – Excellent chemical resistance and high temperature stability. Also resists attacks by hydrocarbons (petroleum oils, gas, alcohol).

EPDM (Ethylene Propylene) – Recommended for use in water. Excellent chemical resistance (except hydrocarbons).

560CD (Standard) – A proprietary EPDM compound with enhanced properties over standard EPDM. Also used for hot water applications (except hydrocarbons).

Separate Time Fill (STF) Describes an optional 4-step regeneration cycle: 1) backwash, 2) brine draw & slow rinse, 3) rapid rinse, 4) brine tank fill (separate from the rapid rinse cycle).

Options, Accessories & Definitions

Option / Accessory	Description
Service Valve Operator (SVO)	A cam operated Fleck device, similar in appearance to a brine valve, that directs water to externally mounted, hydraulic service valves.
System Type: Valve Position	<p>The position (lead, lag or middle) that a control valve occupies in any multi-valve system. A control valve that is not part of a multi-valve system will have a valve position of "single".</p> 
Powerhead System Wiring	<p>Single = One wired valve. Duplex = Two valve system wiring. Multiple = Three or more valve system wiring.</p>
Terminal Strip	<p>The wiring block on a control valve.</p> <p>Terminal Strip Option – A wiring block that can be added to a control valve to facilitate the wiring of ancillary devices or equipment.</p> <p>Terminal Strip Standard – A wiring block that comes automatically as part of the control valve/system wiring.</p>
Test Port (commercial only)	Used for pressure gauges, test cocks, or to provide inlet water pressure to SVO (See SVO option).
Thread Type	<p>Refers to the plumbing connection threads.</p> <p>NPT – National Pipe Threads (ie; U.S. threads). Others are NPTF and NPTM (F = Female, M = Male).</p> <p>BSP/Metric – British Standard Pipe threads and the fastening hardware threads on a control valve. Others are BSPF and BSPM (F = Female, M = Male).</p>
Timer Options	<p>Timer Type – Manual, Time Clock, SE, ET or Systemax.</p> <p>Regeneration Time – Time when regeneration is set to start; midnight or 2 a.m., is adjustable.</p> <p>K-Label – Label that shows capacity in kilograins.</p> <p>People Label – Meter label showing people per household (calculated at average water usage per person).</p> <p>Pin Settings – Refers to how the timer program pins are set, and how many minutes of cycle time each pin/hole is worth. <i>Separate Time Fill (softener) pin setting</i> = 5 pins, 30 holes, 5 pins, 10 holes, 2 pins. <i>1/30 rpm</i> = 2 minutes per pin/hole. <i>1/15 rpm</i> = 1 minute per pin/hole.</p> 

Options, Accessories & Definitions

Option / Accessory

Description

Top Collector

Prevents mineral loss on units with high backwash rates.
Available for 3/4", 1" and 1 1/2" distributors.
Available in standard, wide slot, narrow slot and hot water.



Valve Body Materials

Noryl® (PPO, Polyphenylene Oxide) – Provides excellent stability in water, superior chemical resistance and exceptional mechanical properties. Noryl is a registered trademark of General Electric Company.

Brass – Provides exceptional service life, strength and durability.

Brass, nickel plating – Provides attractive and long lasting protection against oxidation for any brass part.



Yoke

Connection between valve and plumbing.

