

FLECK 4650 HOT WATER CONTROL VALVE

**MADE IN THE
USA**
OF FOREIGN & DOMESTIC PARTS



FEATURES/BENEFITS

Lead-free brass valve body for superior strength and durability

Continuous service flow rate of 20 GPM with a backwash of 7 GPM

Backwash capability accommodates softener tanks up to 12" and filters up to 10" in diameter

Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system

Time-tested, hydraulically-balanced piston for service and regeneration

Designed with double backwash for reduced hardness leakage

Rugged-built electromechanical timer designed with heavy duty 3/8" wide plastic gears

OPTIONS

Softener control valves

Brine cam auxiliary switch

Plumbing connections in 3/4" or 1", NPT and sweat

Fiber-reinforced polymer or stainless steel bypass valve

Hot water

Electromechanical 12-day clock regeneration

Electromechanical Timer- Simple to adjust and easy to service with quick access to all internal components

VALVE SPECIFICATIONS

| | |
|----------------|----------------------|
| Valve Material | Lead-free brass* |
| Inlet/Outlet | 3/4" or 1" NPT/Sweat |
| Cycles | 7 |

FLOW RATES (50 PSI INLET) – VALVE ALONE

| | |
|------------------------------|-----------------------------------|
| Continuous 15 psi drop | 20 GPM (4.5 m ³ /h) |
| Peak 25 psi drop | 26 GPM (5.9 m ³ /h) |
| Cv flow at 1 psi drop | 5.2 |
| Max. Backwash 25 psi drop | 7 GPM (1.6 m ³ /h) |

REGENERATION

| | |
|-------------------------------------|--|
| Downflow/Upflow | Downflow only |
| Adjustable Cycles | Brine fill only |
| Time Available Electromechanical | 180 min/regeneration continuous moving piston |

DIMENSIONS

| | |
|----------------------------|------------------------|
| Distributor Pilot | 1.05" O.D. (26.7 mm) |
| Drain Line | 1/2" NPTF |
| Brine Valve 1600: | 3/8" |
| Injector System | 1600 |
| Mounting Base | 2.5"– 8 NPSM |
| Height from Top of Tank | 7" (178 mm) |
| Riser Tube Diameter | 3/4" (19 mm) |
| Riser Height | Flush with top of tank |

TYPICAL APPLICATIONS

| | |
|----------------|---|
| Water Softener | 6 - 12" diameter |
| Filters | 6 - 10" diameter based on 10 GPM/ft ² |

ADDITIONAL INFORMATION

| | |
|---|---------------------------------|
| Electrical Rating | 24/110V 50/60 Hz |
| Max. VA | 3 |
| Estimated Shipping Weight Time Clock: | 7 lbs |
| Pressure | |
| Hydrostatic: | 300 psi (20 bar) |
| Working: | 20 - 125 psi (1.4 - 8.5 bar) |
| Temperature | |
| Hot Water Valve: | 34 - 180° F (1 - 82° C) |
| Softener, Filter, Time Clock, 1600 Brine System | |

*As defined in the U.S. EPA Safe Drinking Water Act; the product also meets California Proposition 65 Standards for lead-free brass.



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