

FLECK® 4650 HOT WATER CONTROL VALVE

SEVERAL OPTIONS PERMIT A WIDE VARIETY OF CUSTOM SOLUTIONS

**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 filter 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

Filter or softener control valves

Brine cam auxiliary switch

Plumbing connections in 3/4" to 1-1/4" NPT, BSP, and sweat

Fiber-reinforced polymer or stainless steel bypass valve

Hot water

Electromechanical 7- to 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", 1", or 1-1/4" NPT/ BSP/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	24/110/220V 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 Cold Water Valve:	34 - 110°F (1 - 43°C)
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.



FILTRATION & PROCESS

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