

FLECK® 9100 VALVE

LIGHT COMMERCIAL/RESIDENTIAL TWIN TANK VALVE

PRECISION CONTROL AND IMMEDIATE REGENERATION



FEATURES/BENEFITS

Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant

Continuous service flow rate of 20.1 GPM with a backwash of 8.5 GPM

Backwash capability accommodates softener tanks up to 16"

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

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

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

Salt and water savings by using 100% capacity of the tank in service before switching to the second tank

Regenerates immediately when needed for continuous soft water

Regenerates with soft water keeping system clean for optimum operating efficiency and minimum maintenance

OPTIONS

Brine cam auxiliary switch

Electromechanical timer auxiliary switch

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

Fiber-reinforced polymer or stainless steel bypass valve

SXT-Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems

XT- Offers a two-line, 16 character LCD backlit display for easy entering of master and user programming as well as view of diagnostics

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



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 44 for Water Softener Performance.



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 372 for Lead Free Compliance.



UL recognized to 979



Restriction of Hazardous Substance Compliant

VALVE SPECIFICATIONS

| | |
|----------------|--------------------------------------|
| Valve Material | Fiber-reinforced polymer |
| Inlet/Outlet | 3/4", 1", or 1-1/4" NPT/BSP/Sweat |
| Cycles | 5 |

FLOW RATES (50 PSI INLET) – VALVE ALONE

| | | |
|------------------------------|--|--|
| Continuous 15 psi drop | 3/4" Meter: 18 GPM (4.1 m ³ /h) | 1" Meter: 20 GPM (4.5 m ³ /h) |
| Peak 25 psi drop | 3/4" Meter: 24 GPM (5.5 m ³ /h) | 1" Meter: 26 GPM (5.9 m ³ /h) |
| Cv flow at 1 psi drop | 3/4" Meter: 4.7 | 1" Meter: 5.5 |
| Max. Backwash 25 psi drop | 3/4" Meter: 9 GPM (2 m ³ /h) | 1" Meter: 9 GPM (2 m ³ /h) |

REGENERATION

| | |
|--------------------|--------------------------|
| Downflow/Upflow | Downflow only |
| Adjustable Cycles | Yes |
| Time Available | |
| Electromechanical: | 0 - 164 min/regeneration |
| SXT: | 0 - 199 min/cycle |
| XT: | 0 - 240 min/cycle |

METER INFORMATION

| | |
|----------------|--|
| Meter Accuracy | |
| 3/4" Paddle: | 0.25 - 15 GPM ± 5% (0.06 - 3 m ³ /h) |
| 1" Paddle: | 0.7 - 40 GPM ± 5% (0.16 - 9 m ³ /h) |

METER INFORMATION (CONTINUED)

| | |
|----------------------|---|
| Meter Capacity Range | |
| 3/4" Standard: | 125 - 2,125 gal (0.5 - 8 m ³) |
| 3/4" Extended: | 625 - 10,625 gal (2.5 - 40 m ³) |
| 1" Standard: | 310 - 5,270 gal (1.2 - 20 m ³) |
| 1" Extended: | 1,550 - 26,350 gal (6 - 100 m ³) |
| SXT: | 1 - 999,900 gal (0 - 3,785 m ³) |
| XT: | 1,000 - 9,900,000 gal (3.8 - 37,476 m ³) |

DIMENSIONS

| | |
|----------------------------|------------------------|
| Distributor Pilot | 1.05" O.D. (32 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 | 7.3" (185 mm) |
| Riser Tube Diameter | 3/4" (19 mm) |
| Riser Height | 1/4" Below top of tank |

TYPICAL APPLICATIONS

| | |
|----------------|------------------|
| Water Softener | 6 - 16" diameter |
|----------------|------------------|

ADDITIONAL INFORMATION

| | |
|---------------------------|---------------------------------|
| Electrical Rating | 24/110/220V 50/60 Hz |
| Max VA | 8.9 |
| Estimated Shipping Weight | |
| Mechanical Valve: | 14-1/2 lbs |
| SXT and XT Valve: | 12 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) |



FILTRATION & PROCESS

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