

# FLECK® 2850

## COMMERCIAL CONTROL VALVES

IDEAL FOR SMALL COMMERCIAL AND INDUSTRIAL APPLICATIONS

### FEATURES/BENEFITS

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|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Lead-free brass valve body for superior strength and durability                             | Environmental protective cover for water resistance, corrosion resistance, and UV stability |
| Continuous service flow rate of 46 GPM with a backwash of 47 GPM                            | Time-tested, hydraulically-balanced piston for service and regeneration                     |
| Backwash capability accommodates softener tanks up to 36" and filters up to 24" in diameter | Rugged-built electromechanical timer designed with heavy duty 3/8" wide plastic gears       |
| Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system    |                                                                                             |
| Designed for single or multiple tank systems                                                |                                                                                             |

### OPTIONS

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- Filter or softener control valves
- No hard water bypass2t, 1g3 bos

## VALVE SPECIFICATIONS

|                |                  |
|----------------|------------------|
| Valve Material | Lead-free brass* |
| Inlet/Outlet   | 1-1/2" NPTF/BSPF |
| Cycles         | 3 or 5           |

## FLOW RATES (50 PSI INLET) – VALVE ALONE

|                              |                                    |
|------------------------------|------------------------------------|
| Continuous<br>15 psi drop    | 46 GPM<br>(10.4 m <sup>3</sup> /h) |
| Peak<br>25 psi drop          | 60 GPM<br>(13.6 m <sup>3</sup> /h) |
| Cv<br>flow at 1 psi drop     | 12                                 |
| Max. Backwash<br>25 psi drop | 47 GPM (10.7 m <sup>3</sup> /h)    |

## REGENERATION

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

## METER INFORMATION

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Meter Accuracy       |                                                         |
| 1" Paddle:           | 0.7 - 40 GPM ± 5%<br>(0.16 - 9 m <sup>3</sup> /h)       |
| 1-1/2" Paddle:       | 1.5 - 75 GPM ± 5%<br>(0.34 - 17 m <sup>3</sup> /h)      |
| 1-1/2" Turbine:      | 2 - 40 GPM +5/-8%<br>(0.45 - 9 m <sup>3</sup> /h)       |
| Meter Capacity Range |                                                         |
| 1" Standard:         | 310 - 5,270 gal<br>(1.2 - 20 m <sup>3</sup> )           |
| 1" Extended:         | 1,550 - 26,350 gal<br>(6 - 100 m <sup>3</sup> )         |
| 1-1/2" Standard:     | 625 - 10,625 gal<br>(2.5 - 40 m <sup>3</sup> )          |
| 1-1/2" Extended:     | 3,125 - 53,125 gal<br>(12 - 200 m <sup>3</sup> )        |
| SXT:                 | 1 - 999,900 gal<br>(0 - 3,785 m <sup>3</sup> )          |
| NXT:                 | 1 - 9,900,000 gal<br>(0 - 37,476 m <sup>3</sup> )       |
| XT:                  | 1,000 - 9,900,000 gal<br>(3.8 - 37,476 m <sup>3</sup> ) |

## DIMENSIONS

|                            |                        |
|----------------------------|------------------------|
| Distributor Pilot          | 1.9" O.D. (50 mm)      |
| Drain Line                 | 1" NPTM                |
| Brine Valve                |                        |
| 1600 or 1650:              | 3/8"                   |
| 1700 or 1710:              | 1/2"                   |
| Injector System            | 1600 or 1700           |
| Mounting Base              | 4" - 8 UN              |
| Height from<br>Top of Tank | 6.5" (165 mm)          |
| Riser Tube Diameter        | 1-1/2" (38 mm)         |
| Riser Height               | 1/4" Below top of tank |

## TYPICAL APPLICATIONS

|                |                                                      |
|----------------|------------------------------------------------------|
| Water Softener | 14 - 36" diameter                                    |
| Filters        | 14 - 30" diameter<br>based on 10 GPM/ft <sup>2</sup> |

## ADDITIONAL INFORMATION

|                           |                         |
|---------------------------|-------------------------|
| Electrical Rating         | 24/110/220V<br>50/60 Hz |
| Estimated Shipping Weight |                         |
| Time Clock:               | 7 lbs                   |
| Metered Valve:            | 10 lbs                  |
| Pressure                  |                         |
| Hydrostatic:              | 300 psi                 |



## FILTRATION & PROCESS

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