Optional 3" Meter Side Mount Adapter

• 3" top mount or side mount control valve suited for commercial and industrial applications
• Epoxy coated lead free brass valve body
• Economical stainless steel optional meter assembly
• Service flow rate 250 gpm (946 lpm) (56.8 m³/h), Backwash flow rate 220 gpm (833 lpm) (50.0 m³/h)
• Solid state microprocessor with easy access front removable POD
• Modbus TCP/IP capability to communicate with building automation systems
• Front panel display for Time of Day, Current Flow Rate, Totalizer and Volume/Days until Regeneration (now with blue backlight)
• Four methods to initiate the down flow regeneration; meter delayed, meter immediate, time clock delayed, and pressure differential
• Fully programmable regeneration cycle sequences (maximum 9)
• Fully programmable regeneration cycle times
• Pre or Post treated water regenerant refill
• Days override feature; 1-28 days available
• Lithium coin cell battery for keeping time of day, limited to life of battery
• Level VI 24-volt DC output power supply provides safe and easy installation
• Reliable and proven DC drive
• One piece expanding seal spacer stack assembly
• Linearly reciprocating piston operation

WS3
WATER SPECIALIST CONTROL VALVE

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372.
Water Specialist 3” Control Specifications

Inlet/Outlet (1) ................................................................. 3” Female NPT or BSPT
Cycles ................................................................................ up to 9
Valve Material ...................................................................... Lead free brass
Regeneration ....................................................................... Downflow

CONTROL VALVE FLOW RATES
Service @ 15 psi/1 bar drop ........................................... 250 gpm (946 lpm) (56.8 m³/h)
Backwash @ 25 psi/1.7 bar drop ......................... 220 gpm (833 lpm) (50.0 m³/h)
Cv Service ......................................................................... 64.6
Cv Backwash ..................................................................... 44.0

OPERATING PRESSURES
Minimum/Maximum .......................................................... 20 - 125 psi (1.4 - 8.6 bar)

OPERATING TEMPERATURES
Minimum/Maximum .......................................................... 40º - 110º F (4º - 43º C)

METER SPECIFICATIONS
Accuracy ............................................................................ ± 5%
Flow Rate Range .......................................................... 3.5 - 350 gpm (13.3 - 1325 lpm)
Volume Range ................................................................ 10 - 999,000 gallons
(38 - 3,796.2 liters x1000)
Totalizer ........................................................................... 1,000 - 999,999,000 gallons
(3,786 - 3,785,407.9 liters x1000)

DIMENSIONS & WEIGHT
Distributor Pilot
Valve Bodies with 3” Female NPT Inlet & Outlet .......... 3.5” OD (3” NPS)
Valve Bodies with 3” Female BSPT Inlet & Outlet ...... 90mm OD
Drain Line Connection .............................................. 3” Female NPT/BSPT "No Groove Lock"
Brine Line Adapters Included .................................. 1” Male NPT elbow and
¾” x 1” solvent weld elbow
Mounting Base ......................................................... 6” Flange or Side Mount
Height From Top Of Tank with 6” Flange QC Base ...... 12.5” (318mm)
Shipping Weight Without Optional Meter ................. 57 lbs (25.9 Kg)

ELECTRICAL SPECIFICATIONS
Supply Voltage ............................................................ 120VAC .............. 240VAC
Supply Frequency ...................................................... 60 Hz ............... 60 Hz
Output Voltage ........................................................ 24VDC .............. 24VDC
Output Current .......................................................... 800 mA .......... 800 mA

TANK APPLICATIONS
Water Softener ......................................................... 18” - 63” Diameter
with standard injectors, to 96”
with Brine Pump
Water Filter (2) ........................................................... 18” - 63” Diameter

CYCLES OF OPERATION
Choose up to nine regeneration cycles, in any order, with a wide range of available values:
Cycle Range of values
Backwash ............................................................... 1 - 95 minutes
Brine (draw) ........................................................... 1 - 180 minutes
Slow Rinse .............................................................. 1 - 95 minutes
Fast Rinse .............................................................. 1 - 95 minutes
Refill ............................................................. 0.1 - 99 minutes
Hold (service) ...................................................... 1 - 480 minutes

Options: Backwash Filter
Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. See Distributor Pilot.
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area/407 lpm per m² of bed area