Pump and Controller Accessories

Walchem is a leading manufacturer of metering pumps and analytical controllers for a wide variety of water treatment applications. To complete your system, Walchem provides high quality accessories that are required for cooling tower, boiler, potable water, and wastewater applications. All of Walchem's accessories are carefully designed and selected for compatibility with our pumps and controllers to enable our customers to provide a complete system solution.

Summary of Key Benefits

- Flow and Feed sensors to verify metering pump performance
- Mounting brackets for metering pumps
- Polyethylene storage tanks
- Multi-function/Tri-purpose valves to provide anti-syphon, back pressure and pressure relief for metering pumps
- Paddlewheel/Multi-jet in-line flowmeters for proportional chemical feed
- Calibration columns to verify metering pump output
- Valves for cooling tower and boiler applications
- Point level sensors to monitor tank levels

PosiFlow Sensor

The PosiFlow sensor verifies that your metering pump is pumping and has not lost prime or had the discharge line cut. There are no moving parts in the sensor, which ensures long life and eliminates concerns of plugging or leaking.

- FCP-1VC   PosiFlow Sensor, VC
- FCP-1VE   PosiFlow Sensor, VE
- FCP-1PC   PosiFlow Sensor, PC
- FCP-1PE   PosiFlow Sensor, PE

FCM Suction Side Flow Sensor

FCM Sensors provide low cost flow verification on the suction side of the E-Series pumps. Installation on the suction side insulates it from varying discharge parameters such as high or inconsistent pressures. Moving liquid during the suction stroke senses that the pump is metering chemical and provides a pulse output for each verified flow pulse. The FCM can be used with a controller to totalize chemical and will sense when there is an air-lock condition (no output pulses).

- FCM-VC-7 Flow Verification Sensor, Suction, VC
- FCM-VH-7 Flow Verification Sensor, Suction, VE

EFS Flow Sensor

The EWN-Y Series pump combined with EFS flow sensor provides accurate real-time control and display of the dosing rate. Set point control allows the desired flow rate to be simply programmed into the pump. The pump will change rate to achieve the target flow rate - ALL WITHOUT ANY TIME-CONSUMING CALIBRATION. The EFS is easily mounted directly to the pump discharge, connects to the control unit with supplied connector, and self recognizes and initializes the sensor.

- EFS-05-FF PVDF/FKM/HC, 11/16/21-Y
- EFS-05-FH PVDF/EPDM/HC, 11/16/21-Y
- EFS-05-FT PVDF/FKM/Ti, 11/16/21-Y
- EFS-10-FF PVDF/FKM/HC, 31/36-Y
- EFS-10-FH PVDF/EPDM/HC, 31/36-Y
- EFS-10-FT PVDF/FKM/Ti, 31/36-Y

W A L C H E M

IWAKI America Inc.

Anti-Syphon/Back Pressure and Pressure Relief Valves

These rugged valves are constructed from PVC, PP, PVDF, or SS components to ensure long life and reliability. The spring loaded PTFE faced diaphragms provide positive discharge pressure to stabilize pump output and prevent syphoning. All valves are screw adjustable from 0 to 150 psi. These valves are ideal for IX, LK and E Series metering pumps.

- BPR-3-PVC-N   BP/PR Valve, PVC, 1/4" NPT
- BPR-3-PVC-U   BP/PR Valve, PVC, 1/4" Union (NPT)
- BPR-3-PP-N   BP/PR Valve, PP, 1/4" NPT
- BPR-3-PVDF-N   BP/PR Valve, PVDF, 1/4" NPT
- BPR-3-SS-N   BP/PR Valve, SS, 1/4" NPT

- BPR-5-PVC-N   BP/PR Valve, PVC, 1/2" NPT
- BPR-5-PVC-U   BP/PR Valve, PVC, 1/2" Union (NPT)
- BPR-5-PP-N   BP/PR Valve, PP, 1/2" NPT
- BPR-5-PVDF-N   BP/PR Valve, PVDF, 1/2" NPT
- BPR-5-SS-N   BP/PR Valve, SS, 1/2" NPT

- BPR-7-PVC-N   BP/PR Valve, PVC, 3/4" NPT
- BPR-7-PVC-U   BP/PR Valve, PVC, 3/4" Union (NPT)
- BPR-7-PVDF-N   BP/PR Valve, PVDF, 3/4" NPT
- BPR-7-SS-N   BP/PR Valve, SS, 3/4" NPT

- BPR-1-PVC-N   BP/PR Valve, PVC, 1" NPT
- BPR-1-PVC-U   BP/PR Valve, PVC, 1" Union (NPT)
- BPR-1-PVDF-N   BP/PR Valve, PVDF, 1" NPT
- BPR-1-SS-N   BP/PR Valve, SS, 1" NPT

Multi-Function Valves

Walchem's Multi-function valves provide anti-syphon, bleed, drain and pressure relief protection in addition to standard venting functions for your 11, 16 and 21 size E Series metering pumps. These valves will prevent syphoning when pumping downhill and will increase accuracy and repeatability in applications with little or no system pressure.

- MFV-HTC-7   Multi-function Valve, B09-B16/C16-C21, 150/105 PSI
- MFV-MTC-7   Multi-function Valve, B21, 60 PSI
- MFV-MTC-8   Multi-function Valve, C31, 50 PSI
- MFV-LTC-8   Multi-function Valve, B31/C36, 50 PSI

Tri-Purpose Valves

Walchem's economical Tri-Purpose Valves are three valves in one. Installed in one direction, the spring loaded PTFE faced diaphragm provides 30 psi of back pressure and anti-syphon protection. Installed in the opposite direction, it provides pressure relief that is adjustable from 30-125 psi.

- 8011-C   Valve Asm, PVC/PTFE, ½"
- 8011-CP   Valve Asm, PP/PTFE , ½"

Flowmeters - Multi-Jet In-line

WFM Flowmeters utilize the multi-jet principle to provide dependable, accurate performance. They are available in ¾, 1, 1½ and 2" NPT pipe sizes. A pulse output provides a signal to a controller or to a metering pump for proportional chemical feed. A two-wire reed switch or three-wire Hall effect sensor may be specified.

- WFM071 Water Meter Contactor, ¾"
- WFM101 Water Meter Contactor, 1"
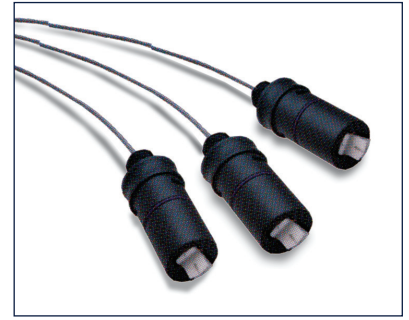- WFM151 Water Meter Contactor, 1½"
- WFM201 Water Meter Contactor, 2"

Flowmeters - Paddlewheel

Walchem's WFP Flowmeters are impeller-type insertion meters designed for use in pipe sizes from ½" to 6". High quality jewel bearings provide accurate performance across the entire flow range. Hall effect sensor output can be connected directly to your controller or metering pump.

- WFP050   Sensor, w/½" Mounting Tee, PVC
- WFP075   Sensor, w/¾" Mounting Tee, PVC
- WFP100   Sensor, w/1" Mounting Tee, PVC
- WFP150   Sensor, w/1½" Mounting Tee, PVC
- WFP200   Sensor, w/2" Mounting Tee, PVC
- WFP300   Sensor, w/3" Saddle, PVC
- WFP400   Sensor, w/4" Saddle, PVC
- WFP600   Sensor, w/6" Saddle, PVC

Calibration Columns

Walchem's calibration columns provide verification of metering pump output. Constructed from Polypro, clear PVC, or glass, they have graduations in milliliters and GPH. Available in easy clean versions with vented (npt) removable top, and in sealed versions with vented (npt) non-removable top.

- CC-PVC-250-T   Cal Column, PVC, 250ML, 1/2"NPT
- CC-PVC-250-D   Cal Column, PVC, 250ML, 1/2"NPT w/Dust Cap
- CC-GF-250-T   Cal Column, Glass/PVDF/Viton®, 250ML, 1/2"NPT
- CC-GS-250-T   Cal Column, Glass/SS/EPDM, 250ML, 1/2"NPT
- CC-PP-250-T   Cal Column, PP, 250ML, 1/2"NPT

- CC-PVC-500-T   Cal Column, PVC, 500ML, 1/2"NPT
- CC-PVC-500-D   Cal Column, PVC, 500ML, 1/2"NPT w/Dust Cap
- CC-GF-500-T   Cal Column, Glass/PVDF/Viton®, 500ML, 1/2"NPT
- CC-GS-500-T   Cal Column, Glass/SS/EPDM, 500ML, 1/2"NPT
- CC-PP-500-T   Cal Column, PP, 500ML, 1/2"NPT

- CC-PVC-1000-T   Cal Column, PVC, 1000ML, 1/2"NPT
- CC-PVC-1000-D   Cal Column, PVC, 1000ML, 1/2"NPT w/Dust Cap
- CC-GF-1000-T   Cal Column, Glass/PVDF/Viton®, 1000ML, 1/2"NPT
- CC-GS-1000-T   Cal Column, Glass/SS/EPDM, 1000ML, 1/2"NPT
- CC-PP-1000-T   Cal Column, PP, 1000ML, 1/2"NPT

- CC-PVC-4000-T   Cal Column, PVC, 4000ML, 1"NPT
- CC-PVC-4000-D   Cal Column, PVC, 4000ML, 1"NPT w /DUST CAP
- CC-GF-4000-T   Cal Column, Glass/PVDF/Viton®, 4000ML, 1"NPT
- CC-GS-4000-T   Cal Column, Glass/SS/EPDM, 4000ML, 1"NPT
- CC-PP-4000-T   Cal Column, PP, 4000ML, 1"NPT

Mounting Brackets for Metering Pumps

Wall mount brackets position your E-class metering pumps above your chemical drum. Also available is a mounting base for the LK Series pump that simplifies installation and service.

- E00070 Wall Bracket (E Series Pumps - shown)
- E00099 Mounting Base (LK Pumps)

BOILER ACCESSORIES

Flow Control Valves

Flow control valves are used to control the blowdown rate of your boiler to prevent flashing across the conductivity probe.
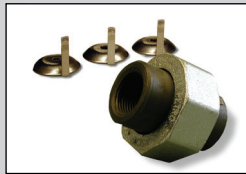
- 190831 ¾" 0 - 150 psi
- 190832 ¾" 0 - 300 psi
- 190833 ½" 0 - 150 psi
- 190834 ½" 0 - 300 psi

Orifice Unions

Orifice unions with drilled plates may also be used to control the blowdown rate of your boiler. Four plates are provided with pre-drilled 1/8", 3/16", 1/4" and 5/16" holes.

- 102224 ½" with 4 Plates, 0 - 1000 psi
- 102225 ¾" with 4 Plates, 0 - 1000 psi
- 102226 1" with 4 Plates, 0 - 1000 psi

Motorized Ball Valves

Worcester Series 36 motorized blowdown valves are opened and closed by your Walchem boiler controller to maintain your conductivity set point. 115VAC only.

- 102448 ½" 0 - 300 psi
- 102449 ¾" 0 - 300 psi
- 102450 1" 0 - 300 psi

Boiler Solenoid Valves

These valves open when the coil is energized, and close when de-energized. When the coil is energized, the pilot valve opens, relieving the pressure above the piston, which is lifted from its seat by the laminar plunger. When de-energized, a spring closes the pilot valve and opens a bleed passageway to permit pressure to build above the piston and seat it. No differential pressure is required to open the valve.

- 102219 ½" 100 - 300 psi
- 102220 ¾" 100 - 300 psi
- 102571 ½" 0 - 100 psi
- 102572 ¾" 0 - 100 psi

Polyethylene Storage Tanks

Constructed from white NSF61 certified, UV resistant polyethylene with molded-in graduations in gallons and liters. Rigid covers are polyethylene with molded recesses for pump, mixer and level switch. Available pre-drilled for mixers.

- 934-2C   Tank with Drilled Cover, 30 Gallon
- 944-2C   Tank with Drilled Cover, 50 Gallon

Solenoid Valves

Epoxy encapsulated solenoid valves for cooling tower applications. These normally closed valves may be mounted in any position and are available in ½", ¾" and 1" sizes. 115VAC only.

- 102014 ½" NPTF
- 102013 ¾" NPTF
- 102012 1" NPTF

Level Switches - Point Level

Point Level sensors provide simple low tank level input for controllers and solenoid metering pumps. They can be used to stop your metering pump when chemical level is low or for direct input to your Walchem WebMaster® or WebAlert™ for remote low level indication.

- 190964-3 Switch with 3' Tube
- 190964-5 Switch with 5' Tube

ABOUT US

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market. Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: www.walchem.com