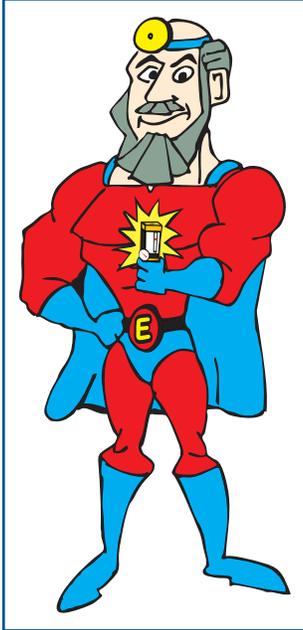




DR. EDDY™

Featuring Fluid Characteristic Indication (FCI) Technology

Dr. Eddy diagnoses flow condition.



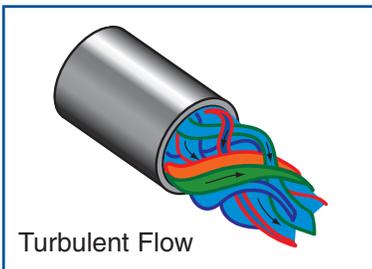
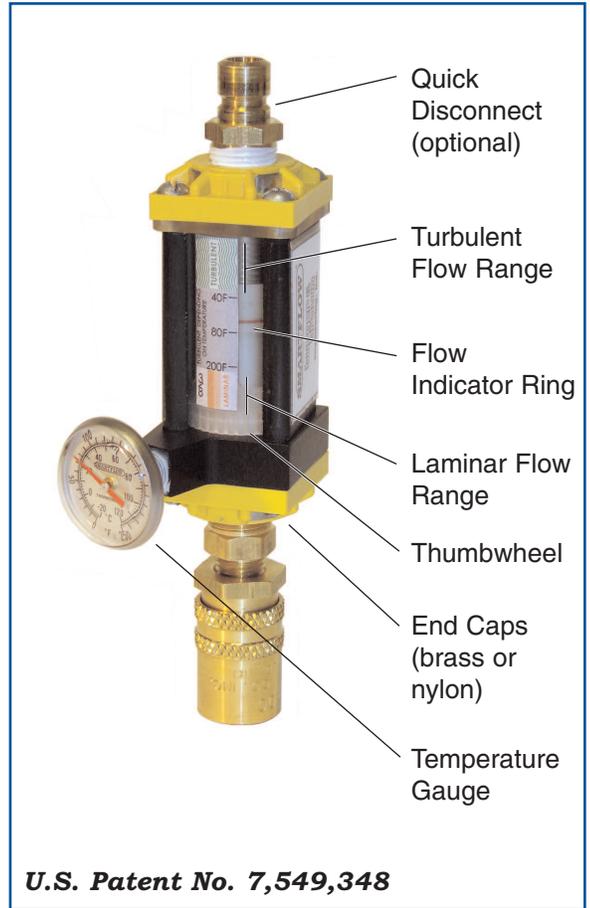
Using Fluid Characteristic Indication (FCI) technology, Dr. Eddy displays the condition of the water as it relates to flow efficiency: laminar flow, transient flow, or turbulent flow.

Dr. Eddy has four scales built into the meter: three scales for FCI and one scale for flow rate. FCI Scales are selectable and correspond to cooling line inside diameter: 1/4", 3/8", or 1/2". Flow rate scale can be referenced quickly for additional functionality.

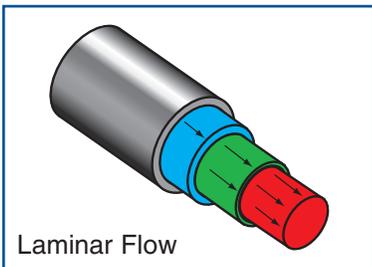
The flow scale displays flow rate in gallons or liters per minute depending on the model. A dual scale temperature gauge is standard on all models for process comparison to the FCI Scales.

Dr. Eddy applies the science of heat transfer, diagnosing the condition of

cooling water lines at a glance. Cooling water capacity can be conserved plant-wide by using the minimum amount of flow that will produce turbulence on all presses. It may be possible to delay costly water system upgrades by maximizing the flow effectivity.



Turbulent Flow



Laminar Flow

Turbulent Flow Basics

Turbulent water flow is much more efficient at removing heat in a cooling system than water flowing under laminar conditions. Once turbulent flow is achieved, increasing the flow rate does not significantly improve the cooling rate of the system.

In molding applications, many mold operators try to maximize the flow of water through their cooling systems to ensure turbulent flow. Doing so increases energy costs for pumping more water than necessary through the system. This practice may also limit the amount of cooling water available for cooling additional molds on the same cooling system circuit.

By insuring turbulent flow using FCI Technology, less water can be used in the molding process, saving precious resources.



4500 E 142nd St
Grandview, MO 64030
Tel. 800-764-3518
www.smartflow-usa.com

Design and specifications are subject to change without notice.

Model Number

FC3 - B - E

Brass End Caps

Inlet Size

- 1/4"NPT(F)
- 1/4"BSPP(F)
- 3/8"NPT(F)
- 3/8"BSPP(F)

- FC2
- FC2B
- FC3
- FC3B

Nylon End Caps

Inlet Size

- 1/4"NPT(F)
- 1/4"BSPP(F)
- 3/8"NPT(F)
- 3/8"BSPP(F)

- FCP2
- FCP2B
- FCP3
- FCP3B

Scale Units

- E** English
(Temp in °F and
Flow in GPM)
- M** Metric
(Temp in °C and
Flow in LPM)

Accessories

- B** Thermometer (standard)
- E** Thermometer with quick-connect socket and plug

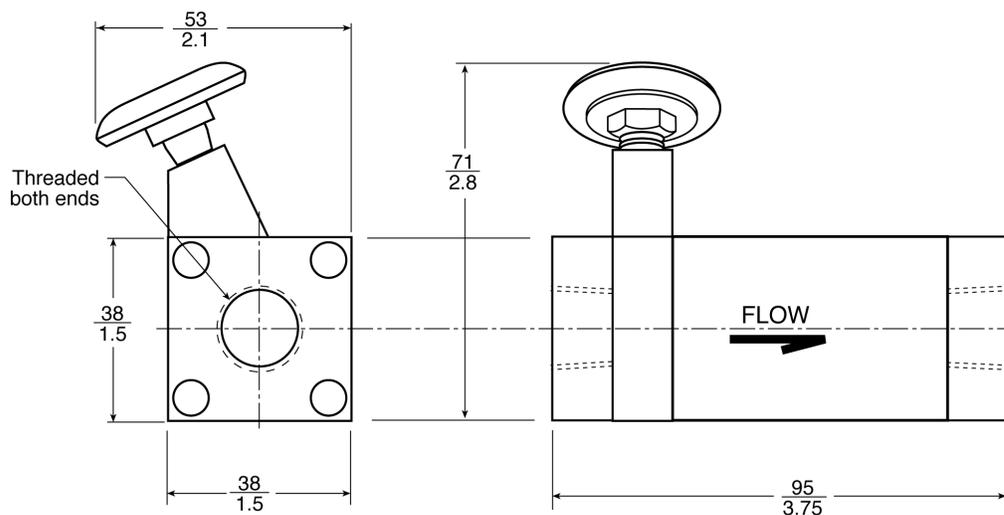
Wetted Parts and Materials

- End CapsBrass or Glass-Filled Nylon
- BodyPolysulfone
- Indicator Ring.....Silicone Rubber
- Piston.....Acetal
- Spring302 Stainless Steel
- O-RingsEPDM
- Cap ScrewsStainless Steel
- Gauge Block.....Brass
- Optional Quick-Connect FittingsBrass

Specifications

- Accuracy±10% full scale
- Operating Temperature210°F max.
(99°C max.)
- Operating Pressure.....100 psi max.
(6.9 bar max.)
- Dial Thermometer.....0° to 250°F
(-20° to 120°C)
±2% accuracy (full scale)

Dimensions



Linear = $\frac{\text{mm}}{\text{inches}}$