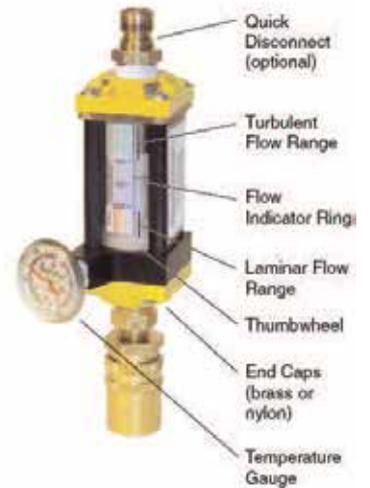


Flowmeters

Doctor Eddy diagnoses flow condition.

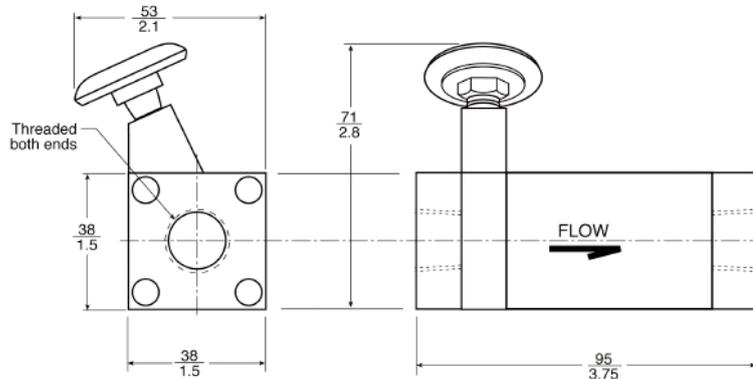
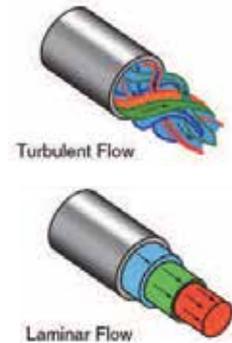
Using Fluid Characteristic Indication (FCI) technology, Dr Eddy displays the condition of the water as it relates to flow efficiency: laminar flow, transient flow or turbulent flow. Dr. Eddy has four scales built into the meter: three scales for FCI and one scale for flow rate. FCI Scales are selectable 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 litres 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 within the factory by using the minimum amount of water that will produce turbulence on all machines. It may be possible to delay costly water system upgrades by maximising the flow effectivity.



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 moulding applications, many mould operators try to maximise the flow of water through their cooling systems to ensure turbulent flow. Doing so increases energy for pumping more water than necessary through the system. This practise may also limit the amount of cooling water available for cooling additional moulds on the same cooling system circuit. By ensuring turbulent flow using FCI technology, less water can be used in the moulding process, saving precious resources.



BSP Thread

TYPE	INLET SIZE	MATERIAL (OF END CAPS)	SCALE UNITS	QUICK DISCONNECTS?	PART #
FCI FLOWMETER W/TEMP. AND FLOW GUAGES	1/4"	NYLON	ENGLISH (°F)	-	FCP2BBE
				YES	FCP2BEE
		BRASS		-	FC2BBE
				YES	FC2BEE
	3/8"	NYLON		-	FCP3BBE
				YES	FCP3BEE
		BRASS		-	FC3BBE
				YES	FC2BEE
	1/4"	NYLON	METRIC (°C)	-	FCP2BBM
				YES	FCP2BEM
		BRASS		-	FC2BBM
				YES	FC2BEM
3/8"	NYLON	-		FCP3BBM	
		YES		FCP3BEM	
	BRASS	-		FC3BBM	
		YES		FC3BEM	