

## FS-10798 Series – Externally Adjustable for Water, Oils and Gases

Flow Rate Settings: Liquids: Infinite Adjustment between 0.5 GPM and 20.0 GPM

Air/Gases: See Gas Flow Adjustment Ranges below

Port Size: 1/2" NPT

Primary Construction Material: Brass or Stainless Steel

#### Setting Type: Adjustable

These externally adjustable switches are ideal for protecting machine tools from coolant flow failure, for protecting bearings from loss of lubricant or to assure proper air flow. They offer an infinite number of flow settings at pressures up to 1000 PSIG, with low pressure drop and precise repeatability.

The adjusting vane is easily field adjustable using an ordinary flat-bladed screwdriver. The adjustment is set-screw-locked for tamper-free operation after field calibration.

#### Specifications

#### Wetted Materials Housing Brass or 316 Stainless Steel Piston In Brass Housing Polysulfone for water; Brass for oil or air In Stainless Steel Housing 316 Stainless Steel Only Spring 316 Stainless Steel 0-Ring Viton® **Other Wetted Parts** Epoxy Pressure Rating Operating 1000 PSIG (69 bar) Proof 2500 PSIG (172 bar) Burst 5000 PSIG (345 bar) **Operating Temperature** With Brass or S.S. Piston -20°F to +300°F (-29°C to +148.9°C) -20°F to +225°F (-29°C to +107.2°C) With Polysulfone Piston Repeatability 1% Maximum Deviation Set Point Accuracy ±10% Maximum Set Point Differential 15% Maximum Switch\* SPDT, 20 VA Inlet/Outlet Ports 1/2" NPT **Electrical Termination** No. 18 AWG, 24" L., Polymeric Lead Wires

\*See "Electrical Data" on Page X-5 for more information.

#### Air/Gas Flow Adjustment Ranges

Water or oil flow units should not be utilized for air/gas applications. The FS-10798 Gas Flow configuration utilizes a special dash-pot piston for reliability. The flow adjustment ranges are typical for air service. For other gases, the flow range will vary with the density of the gas. Please consult factory for more information.

For 5 PSIG Line*	1 to 75 SCFM Approx.
For 100 PSIG Line	3 to 160 SCFM Approx.

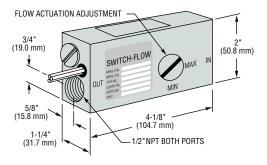
\* Minimum 5 PSI line pressure required.



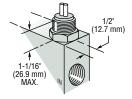
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### Dimensions

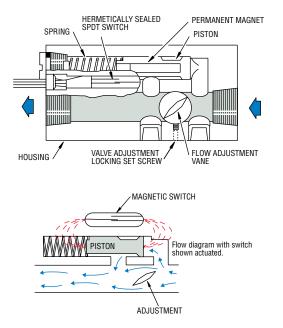
#### With Wire Leads and Strain Relief



#### With 1/2" NPT Conduit Connector



#### How It Works



An externally rotatable vane is positioned in the main flow path within the unit. The magnet carrier piston is located in a bypass flow chamber. Pressure differential, caused by flow around the adjusting vane, displaces the spring-biased piston which actuates a hermetically sealed SPDT reed switch within the unit.

#### How To Order – Standard Models

Specify Part Number based on desired media, piston material and electrical termination.

	Meteriele		Part Numbers		
Media		Materials	With Lead With 1/2" Conduit Connector		
	Housing	Piston			
	Brass	Brass (for Oils)	61205	49073 🗲	
Liquids		Polysulfone (for Water)	25357 🗲	25363 🗲	
	316 Stainless Steel		3	25358	25364 🗲
Casas	Brass		25359 🗲	25365 🗲	
Gases	Gases 316 Stainless Steel		25360	25366	

Notes:

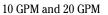
Temperature changes will slightly affect the standard water or gas flow settings listed. 1. Oil flow settings will vary with temperature and viscosity. Use of 50 micron filtration is recommended.

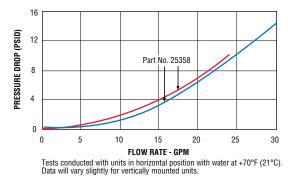
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- Stock Items. 4









FS-10798 switches are U.L. Approved for Class I, Division 2, Groups A, B, C, D hazardous locations. U.L. Approved — File No. E183854

#### Standard Wiring Color Code

Wire Color	Terminal
Orange	N.O.
Black	Common
Red	N.C.

# FLOW SWITCHES

Wire Color	Terminal
Orange	N.O.
Black	Common
Red	N.C.