

SPC/L372J Flow-Through Viscometer

FOR VISCOSITY MEASUREMENTS FROM 0.2 TO 20,000 CENTIPOISE



Installs directly into a 1/4" line. Insert above shows heating and cooling jacket.

Operating Principle

The Model SPC/L372J is a flow through viscometer that is installed in laboratory and process fluids to provide continuous temperature and viscosity tracking. Our technology is based on a simple and reliable electromagnetic concept. Two coils move a piston back and forth magnetically at a constant force. Proprietary circuitry analyzes the piston's two-way travel time to measure absolute viscosity.

A deflector, positioned over the piston, moves the fluid into the measurement chamber. This feature, coupled with the constant piston motion, keeps the sample fresh and mechanically scrubs the chamber. A built-in temperature detector (RTD) senses the actual temperature in the measurement chamber.

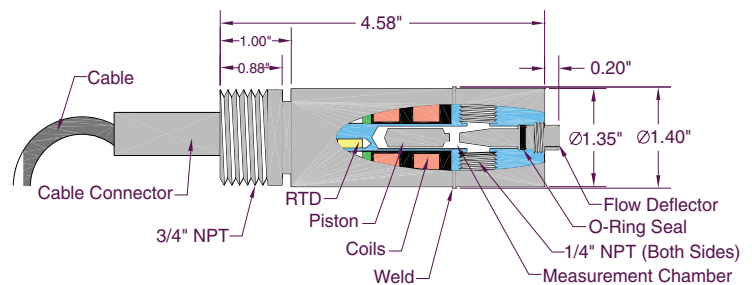
The Model SPC/L372J viscometer installs directly into a 1/4" process line using NPT fittings on the sensor. The sensor comes with a removable jacket which can be plumbed with process material for excellent temperature tracking or a separate flow line for temperature control of sample material.

Measurements can be made in 13 different viscosity ranges within an overall span of 0.2 to 20,000 cP or the equivalent cSt. Recommended flow rate over the sensor is 0.5 to 1.0 ft/sec.

Key Features

- Accurate and reliable
- Rugged stainless steel design
- Easily installed and serviced
- One moving part
- Proven technology
- Jacketed for temperature control
- Installs directly into a 1/4" line
- Approved for CLASS 1, DIV. 1, GROUP C & D
- Approved for EEx d IIC T2, $-20C \leq T_{amb} \leq 190C$

Correlates with ASTM D445



Specifications

Viscosity	0.2 to 20,000 centipoise (cP)
Piston Ranges	0.2-2cP, 0.25-5cP, 0.5-10cP, 1-20cP, 2.5-50cP, 5-100cP, 10-200cP, 25-500cP, 50-1,000cP, 100-2,000cP, 250-5,000cP, 500-10,000cP, 1,000-20,000cP
Viscosity Accuracy	±1.0% of full scale w/ViscoPro 2000
Repeatability	±0.8% of Reading
Temperature Sensor	4 wire internal Platinum RTD
Wetted Materials	316L and 430 Stainless Steel
Maximum Particle Size	25-360 Microns (Range Dependent)
Max Ambient Temperature	375°F (190°C)
Max Operating Pressure	1,000 psi (70.3 bar)
Standard Cable Length	15 Feet (4.57 meters)
Power	Requires ViscoPro electronics



NOTE: ALL ATEX SENSORS ARE SPL ONLY (L = hard wired, C = connector)



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