

SPC/L301 IN LINE VISCOMETER

FOR VISCOSITY MEASUREMENTS FROM 0.2 TO 20,000 CENTIPOISE



The SPC/L 301 is one of the industry's most accurate and reliable process viscometers.

Operating Principle

The Model SPC/L301 is an in-line process viscometer that is installed in 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 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 actual temperature in the measurement chamber.

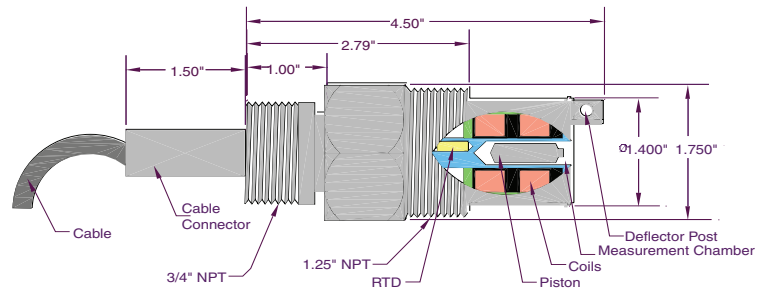
The Model SPC/L301 viscometer has a 1 1/4" NPT thread to easily install into a process line using a "Tee", or into a large tank or pipe, using a weld ferrule.

Measurements can be made in 13 different 20:1 viscosity ranges within an overall span of 0.2 to 20,000 cP or the equivalent cSt. Maximum flow rate over the sensor head is 10ft/sec (3 m/sec).

Key Features

- Accurate and reliable
- Rugged stainless steel design
- Easily installed and serviced
- One moving part, no wear points
- Proven technology
- Mates directly to 1.25" NPT "Tee"
- 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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