

# SPC/L392 FLANGE VISCOMETER

FOR VISCOSITY MEASUREMENTS FROM 0.2 to 20,000 CENTIPOISE



The model SPC/L392 flanged sensor has a rugged design that helps it tackle any operating environment.

## Operating Principle

The Model SPC/L392 in-line viscometer sensor provides continuous measurement of temperature and viscosity. The sensor can be used with our ViscoPro electronics to meet any viscosity management application.

Our patented technology is based on a simple and reliable electromagnetic concept. Two coils pull a piston back and forth within a constantly refreshed sample of process fluid. Proprietary circuitry analyzes the piston's travel time to measure absolute viscosity. A built in temperature detector (RTD) senses the actual temperature in the measurement chamber.

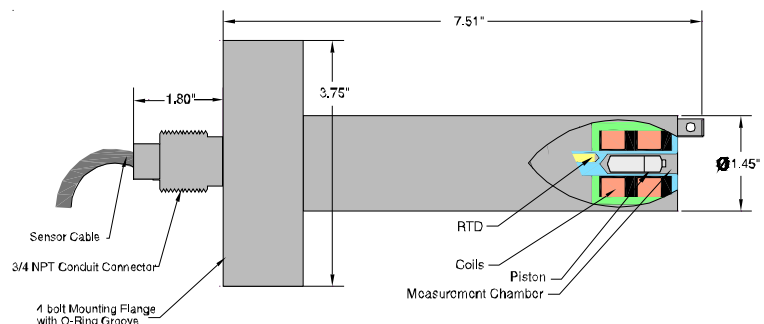
Measurements can be made in any of the 13 different 20:1 viscosity ranges that are available covering a span of 0.2 to 20,000 cP.

The sensor is designed with a four bolt stainless steel SAE Code 61 flange and is easily installed in pipelines ranging from 2" and larger in size. Custom Tees are available. The back of the sensor is fitted with a 3/4"-18 NPT fitting to accommodate electrical conduit. The sensor's self-cleaning feature helps to make it maintenance free in many applications.

## Key Features

- Accurate and reliable
- Rugged light weight stainless steel design
- Easily installed and serviced
- One moving part, no wear points
- Proven technology
- Internal temperature probe
- Mates with SAE Code 61 companion flange
- Approved for CLASS 1, DIV. 1, GROUP C & D
- Approved for EEx d IIC T2,  $-20\text{C} \leq \text{Tamb} \leq 190\text{C}$

## Correlates to 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	±1.5% w/ViscoPro 1000 electronics ±1.0% w/ViscoPro 2000 electronics
Repeatability	±0.8% of reading
Temperature Sensor	4 wire internal 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 (4.5m)
Power	Requires ViscoPro electronics

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



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