

CVI 393 FLANGED PROCESS VISCOMETER



CVI 393 Process Viscometer

The new configurable CVI-393 sensor now has the option for a number of industry standard process connections including ANSI, DIN and RTJ flanges. The updated design makes it easy to install Cambridge Viscosity's (CVI) patented sensor technology in petrochemical and refinery applications in hazardous areas. CVI's technology is based on an oscillating piston method, which has only one moving part with no mechanical

linkages. The sensor electromagnetically drives a piston through a fluid in a controlled measurement chamber at a constant force. Proprietary circuitry analyzes the pistons two-way travel time to measure the absolute viscosity. The sensor is constructed of all 316L stainless steel and the piston is constantly mixing the sample and scrubbing the measurement chamber clean.

KEY FEATURES

- Configurable flanged viscometer sensor
- Easily installed into numerous process connections
- Rugged stainless steel design
- Only one moving part with no seals
- Internal temperature probe, RTD
- ATEX and FM hazardous area approvals

APPLICATION RANGE

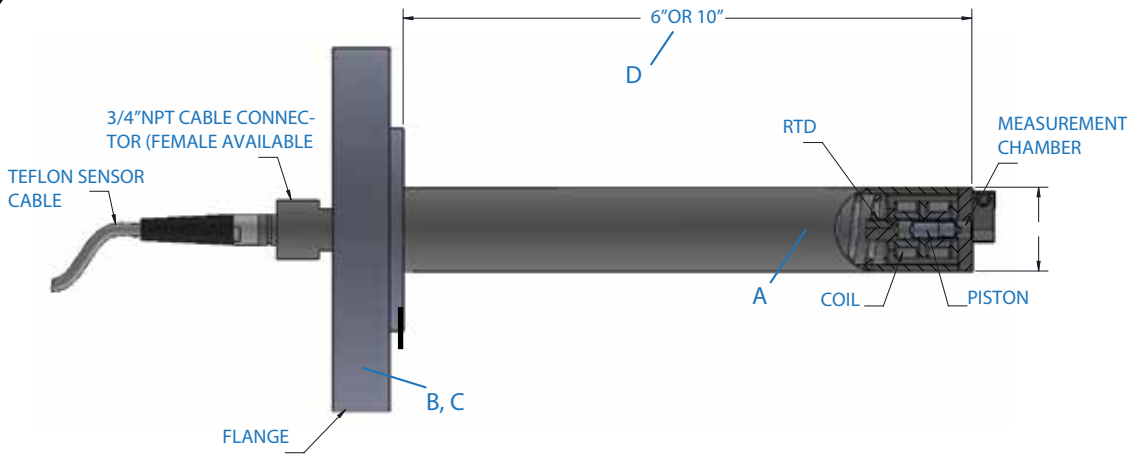
Viscosity measurements for the petrochemical and refinery industries from 0.25 to 10,000 cP up to 190°C with higher temperature options available

STANDARD METHODS

Correlates with ASTM D445
Correlates with ASTM D7483



Model Code Configurations: CVI-A-393-B-C-D



A	Sensor Max Operating Temperature	L - Low Temperature, 190°C	H - High Temperature, 375°C		
B	Flange Diameter	2 - 2" ANSI	3 - 3" ANSI	50 - DN 50	80 - DN 80
C	Flange Class	150 - 150# ASME	300 - 300 # ASME	600 - 600# ASME	40 - PN40 RTJ-RTJ
D	Body Length Class	6 - 6" Flange to Face	10 - 10" Flange to Face		

SPECIFICATIONS

Overall Viscosity	0.25 to 10,000 centipoise (cP)		
Viscosity Ranges	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		
Viscosity Accuracy*	±1.0% of full scale		
Repeatability	±0.8% of Reading		
Temperature Sensor	PT100		
Wetted Materials	316 Stainless Steel		
Maximum Particle Size	25-360 Microns		
Max Allowable Working Pressure			
Sensor	Max Psi	Sensor	Max Psi
CVI-L-393-2-150-D	200	CVI-L-393-50-40-D	600
CVI-H-393-2-150-D	110	CVI-H-393-50-40-D	500
CVI-L-393-2-600-D	700	CVI-L-393-80-40-D	300
CVI-H-393-2-600-D	600	CVI-H-393-80-40-D	250
CVI-L-393-3-300-D	375	CVI-L-393-2-RTJ-10	1000
CVI-H-393-3-300-D	300	CVI-H-393-2-RTJ-10	900
Max Operating Temperature	CVI-L-393: 190°C CVI-H-393: 375°C		
Power	Power Supplied by Viscoprop Electronics		

* ± of 5% of full scale 500-10,000 cP range

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Cambridge Viscosity

With more than 10,000 installations worldwide, Cambridge Viscosity is the proven leader in viscosity management technology. With over 25 years of experience, Cambridge Viscosity understands and meets the needs of laboratory researchers and process engineers in a wide range of industries whose jobs depend on the quality, accuracy, and reliability of viscosity measurement equipment. With their patented sensor technology, Cambridge Viscosity has become the world leader in small sample viscosity measurement.