

Hydramotion Food Extruder Viscometer XVisc

The Hydramotion XVisc is a high-performance stand-alone extruder viscometer which connects with a VP Processor Unit and outputs measured viscosity as both a simple analog signal and in a more comprehensive digital format.

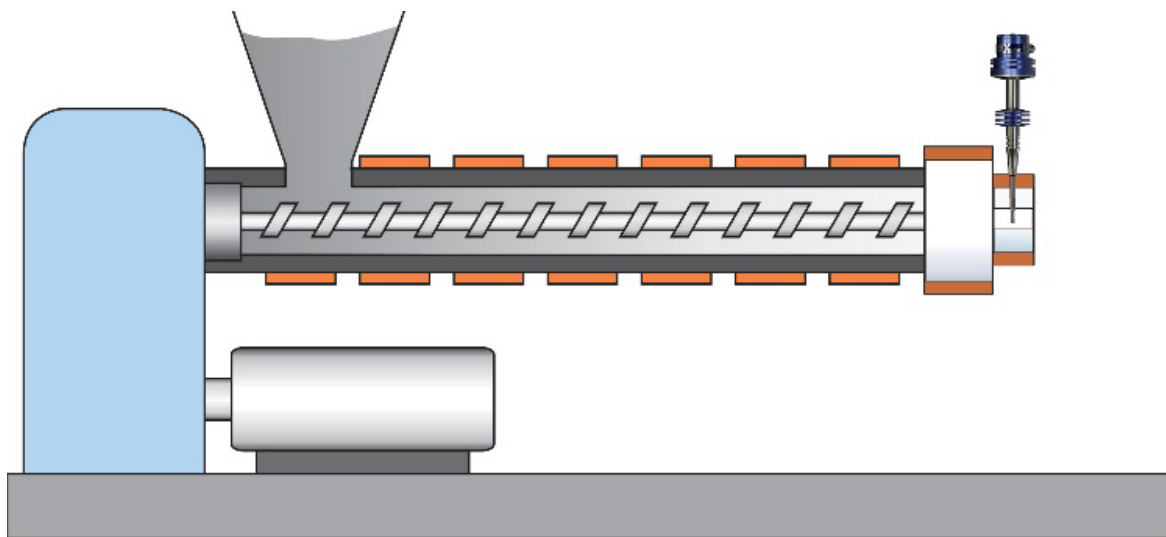
The orientation-independent sensor has a solid construction with no moving parts, seals or bearings and consequently routine maintenance is not required. The device is factory-calibrated and shipped ready for immediate use, enabling viscosity measurement to begin immediately following electrical hook-up.

The XVisc measures viscosity every second with high sensitivity and excellent repeatability. The integral thermometer provides simultaneous measurement of fluid temperature, allowing calculation of viscosity corrected to a reference temperature.

All the necessary functions to derive real-time viscosity are performed by the sensor and its integral electronics. The optional PC-based ViscoLink software supplied with the instrument allows the user to view all measured and calculated variables and configure the system for optimum performance.

Seamless integration into your existing extruder has never been easier. XVisc can be installed directly in the flow without the need for additional pipework. With its standard 1/2" UNF thread, installation is simple. Either utilize a spare port or replace a thermometer and fit to the barrel or die. Connect to the power and you are ready to go. With XVisc's built-in thermometer, there's no sacrifice to functionality.

Every viscometer is factory calibrated in an ISO 9001 laboratory to national traceable standards. Each device delivers high accuracy and long duty with simple installation, no maintenance and unbeatably low cost of ownership.



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Specifications

Performance	Range	From 0 – 10,000,000 cP over model range
	Measurement Time	1 second
	Accuracy	1% of reading or +/- 1 digit
	Repeatability	0.5% of reading or +/- 1 digit
Temperature	Standard Range	-50 °C to 300 °C
Pressure	Standard Range	To process fitting
Process Connection	Standard fitting	½"-20 UNF thread fitting*
Electrical Connection	Cable Length	As required – not affected by cable length up to 1000m
	Cable Type	Any standard instrument cable
	Power	VP Processor powered
Safety Certification		Safe Area
Construction	All welded, crevice-free	
Materials	Head	Anodized aluminum 6082 (EN 3.2315)
	Fitting	As Required
	Sensor	SS316/L (EN 1.4401, 1.4404), alloy 2507 (EN 1.4410)
	Special Materials:	Non-standard materials to order *
Surface Finish	Standard	N6 0.8 Ra
Ingress Protection	Standard	IP66
Software		ViscoLink data viewing and logging PC software

* Special Ops - Custom variations to instrument specification and dimensions routinely provided by Hydramotion's dedicated Special Operations division

