

Viscosity Sensor M10

Introduction



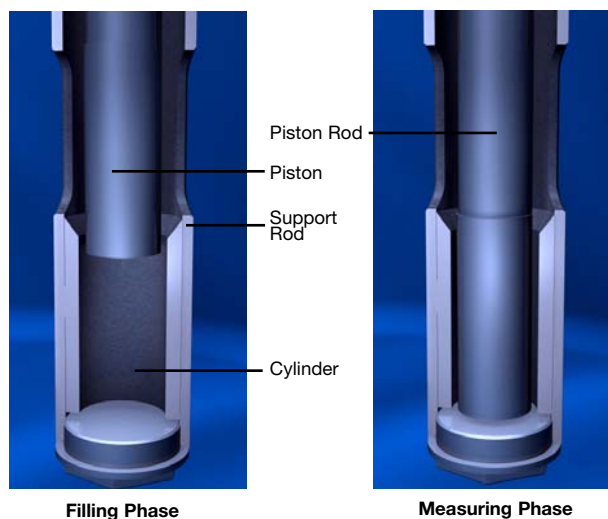
WHY THE M10?

- Used in pressured or vacuum vessel.
- It can be used with Norcross Viscosity Controllers MP2000/MP2500 or VISC6000.

WHAT ARE THE SPECIFICATIONS?

Viscosity Range:	0.1 - 100,000 cps
Temperature:	Standard: 0°F-500°F (260°C) Above 500°F (260°C) remove teflon tube cap gasket.
Reactor Connection:	2" 150# ASA
Operating Pressure:	Vacuum to 100 psi (7 Bar/689KPa)
Electrical Valve:	24vdc, 10 watt Solenoid Air Valve UL XP Class 1, Div 1, Group C, D or EEx CE
Electrical Switch:	24vdc, 10ma, snap action proximity switch in UL XP Class 1, Div 1, Group C, D enclosure.
Pneumatic Supply:	40psi (2.5 bar), dry air
Wetted Parts:	Stainless Steel SS316

Part#	Tank Depth
26016	12" (305mm)
26036	24" (610mm)
26045	36" (915mm)
26071	48" (1,220mm)
26098	60" (1,530mm)
26115	72" (1,830mm)
25143	84" (2,135mm)
26146	96" (2,440mm)
26171	108" (2,745mm)
26197	120" (3,050mm)
26241	132" (3,355mm)
26242	144" (3,660mm)



HOW DOES THE PISTON WORK?

- 1 A piston and piston rod shown at left is periodically raised by an air lifting mechanism, drawing a sample of the liquid to be measured down through the clearance between the piston and the inside of the cylinder into the space which is formed below the piston as it is raised.
- 2 The piston and piston rod are then allowed to fall by gravity, expelling the sample out through the same path as it entered. The time of fall is a measure of viscosity, with the clearance between the piston and the inside of the cylinder forming the measuring orifice.
- 3 NORCROSS Controllers automatically measure this 'Piston Time-of-Fall' and continuously cycle the sensor (typically 2x/min) and indicate and/or control viscosity.