

Viscosity Sensor M24

Introduction

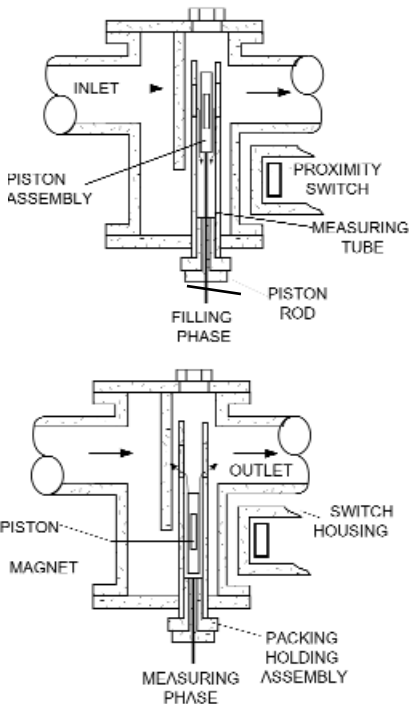


WHY THE M24?

- Easily installed in a main line, a recirculating line, or a bypass line.
- Self cleaning due to normal up and down of piston movement.
- Easy to maintain by any maintenance department.
- It can be used with Norcross Viscosity Controller MP2000/MP2500 or VISC6000.

WHAT ARE THE SPECIFICATIONS?

Viscosity/ Flow Rate Ranges:	0-70 cp (0-100 gpm / 378 lpm)
	0-250 cp (0-75 gpm / 283 lpm)
	0-1,000 cp (0-25 gpm / 94 lpm)
	0-4,000 cp (0-10 gpm / 38 lpm)
	0-7,000 cp (0-5 gpm / 19 lpm)
Temperature Range:	0°F-350°F (180°C)
Electrica / Valve:	24vdc, 10 watts Air Valve UL XP Class 1, Div 1, Group C, D or CE EEx
Electrical Switch:	24vdc, 10ma, snap action proximity switch in UL XP Class 1, Div 1, Group C, D enclosure. Can be made intrinsically safe.
Pneumatic Supply:	40psi (2.5 bar), dry air
Wetted Parts:	Stainless Steel SS316



Model#	Connection	Max. Operating Pressure
30314	2" NPT	100 psi (7 bar / 689 KPa)
30311	2" NPT	300 psi (21 bar / 2,067 KPa)
30290	2" Ferrules	50 psi (3.5 bar / 344 KPa)
30315	2" 150# ASA	100 psi (7 bar / 689 KPa)
30110	2" 300# ASA	300 psi (21 bar / 2,067 KPa)
30131	2" 600# ASA	600 psi (43 bar / 4,134 KPa)

HOW DOES THE PISTON WORK?

- 1 A piston assembly and piston rod, shown at the left, in the Filling Phase, is periodically raised by an air lifting mechanism. Thus drawing a sample of liquid, to be measured, down through the clearance between the piston and the inside of the measuring tube, as it is raised.
- 2 In the Measuring Phase the piston rod is withdrawn, from below the piston, and the piston is then allowed to fall by gravity, expelling the sample out through the same path as it entered. The clearance between the piston and the inside of the measuring cylinder form 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 the viscosity.