

Описание на датчики вязкости. Модель М51

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Viscosity Sensor M51(CE)

Introduction



M51

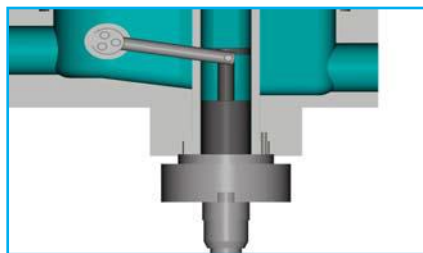
WHY THE M51?

- The M51 mounts directly in the fluid line. Placement in a sidestream is not necessary.
- Can be used with either solvent or water-based applications, such as printing fluid (Flexographic and Rotogravure), glue, and adhesives.
- The falling piston principle of operation provides automatic self cleaning.
- The 'true' in line mounting insures flushing of the sensor whenever the fluid fountain is being cleaned.
- The M51 is easy to open for inspection.
- It can be used with any Norcross Viscosity Controller, such as the MP2000A or VISC series.

WHAT ARE THE SPECIFICATIONS?

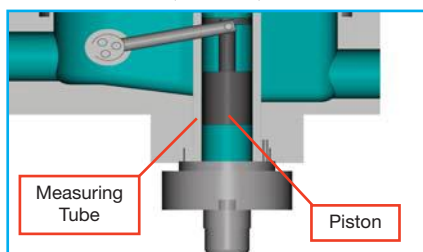
Viscosity Range:	0.1 - 2,000 cps
Temperature:	50°F - 150°F (10°C - 65°C)
Electrical:	M51 is Intrinsically Safe. It requires a 4-way 24VDC Air Valve assembly which is available either UL XP (#36133), CE EEx (#36131) or with an intrinsically safe 4-way air valve (#36138).
Operating Flow:	5gpm (20 lpm)
Operating Pressure:	20psi (1.38bar, 1.41Kg/cm ² , 0.138 MPa)
Pneumatic Supply:	40psi (2.76bar, 2.81Kg/cm ² , 0.276 MPa) dry air
Wetted Parts:	Stainless Steel SS303/SS304, Teflon, Delrin and EPDM - E425 - 238
Mounting:	Mounting plate can be secured to the sensor for mounting to horizontal or vertical surfaces.
Connection:	The M51 is available with the following connections 3/4" BSPP Fluid connections. Other connection available: 3/4" NPT hose connections, 1/2" BARB hose connections and 3/4" BARB hose connections.

Chamber Volume: 0.75 liters



Measuring Phase

(Photo 1680)



Filling Phase

(Photo 1682)

HOW DOES THE PISTON WORK?

1. In the Filling Phase a piston is periodically raised by lifting arms, connected to an air cylinder shaft. When the air cylinder shaft retracts, the piston is lifted along with the arms. The piston thus draws a sample of the fluid, to be measured, into the space inside the measuring cylinder under the piston.
2. In the Measuring Phase the air cylinder shaft is extended and thus the arms are lowered. The piston is then allowed to fall by gravity. The fluid is expelled through the same path that it entered. The 'Piston Time-Of-Fall' is directly proportional to viscosity.
3. Norcross Controllers automatically measure this 'Piston Time-of-Fall', continuously cycle the sensor (typically 2x/min) and indicate and/or control the viscosity.

PATENTED The M51 Sensor has been patented in the USA. Foreign patents pending.

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