

Viscosity Sensor MOFB

Introduction



WHY THE MOFB?

- The 3 supporting rods can support up to a maximum length of 60"
- Intrinsically safe using a proximity switch and intrinsically safe barrier.
- This unit is good for open tanks 12" (305 mm) to 60" (1524 mm) deep.
- Used in water-based application such as paper coating and news flexo ink that dries quickly.
- Worked under atmospheric pressure
- Exposed piston rod and cylinder that enable operators to observe measuring cycle.
- Opened support rods help to combat built-up and enable easy cleaning.
- Removable wetted parts contribute to easy cleaning.
- It can be used with Norcross Viscosity Controller MP2000/MP2500 or VISC6000.

WHAT ARE THE SPECIFICATIONS?

Viscosity Range: 0.1- 100,000 cps

Tank Depth: 12" - 60" (305mm - 1524mm)

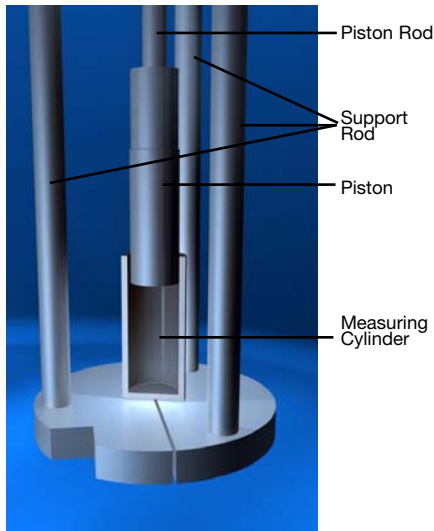
Temperature: 50°F - 250°F (10°C - 121°C)

Electrical: The MFBO is intrinsically safe and has a 3 meter cable
The MFBO requires a 3-way 24vdc Air Valve which is available either UL XP (#08536) or CE EEX (#08764)

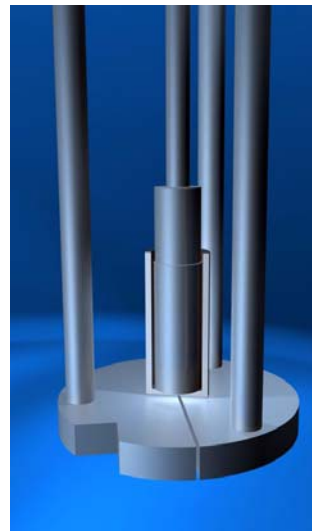
Pneumatic Supply: 40psi (2.5 bar), dry air

Wetted Part: SS316

Solvent Valve: If the system will be adding solvent, then a 2-way 24vdc UL XP Solvent Valve (#08537) or CE EEX Solvent Valve (#08765) is required.



Filling Phase



Measuring Phase

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 'Piston 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 Controller automatically measure this 'Piston Time-of-Fall' in order to record, indicate and control the viscosity.