

IP80 Series Flow Sensor Specifications



General Information

The IP80 Series are impeller-type insertion meters designed for use in pipe sizes 1/2" to 8". High-quality jewel bearings and nickel-bound tungsten carbide shaft are used for maximum life and extreme low friction. Bodies are machined from solid rod for maximum precision. Low-flow performance is superior. The rotation of the rotor is detected by a non-drag Hall-effect sensor. Output is a pulse-type square wave, which can be sent long distances (up to 2,000 feet) without a transmitter. This signal can be connected directly to controls, as well as PLC's, counters, and computer cards.

Muis Controls IP meters are ideal for chemical proportioning applications. If no display is required, a simple divider such as the PD10 provides adjustable pump pacing. For rate and total display, as well as pump pacing, the FT415/420 flow indicator can be mounted directly on the IP80 Series, or remotely on a wall or panel.

The IP80 Series require special fittings, since they are not depth-adjustable as are the IP 100/200 series meters. Installation in the fitting ensures correct depth placement in the pipe. Fittings are available in PVC, brass, and stainless steel. Sensors are available in brass, 316 stainless steel, PVC, and polypropylene. In plastic pipe 3"-8", use an IP82 sensor, which is 1.00" longer than the IP81 to accommodate the larger fittings.

Specifications

Sensor Hall Effect Sensor Materials Sensor Body Rotor Shaft Bearings Maximum Pressure PVC Polypro Brass 316 SS Maximum Temperature

PVC,Polypro

Brass, SS Accuracy

Flow Range (GPM)

	1/2"	3/4"	1"	1-1/2"	2"	3"	4"	6"	8"
Min	0.28	0.5	0.8	1.9	3.1	6.9	12	27	47
Мах	28	50	80	190	314	691	1200	2700	4700

Cable

#22 AWG 3-con, 18'

12 VDC current sink-

PVC, Polypro, Brass,

175 PSI (12 bar) at 75° *

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200 PSI (14 bar)

250 PSI (17 bar)

130° F (55° C)* 200° F (93° C)

1-1/2% FS

ing pulse

or 316 SS

Nickel-bound tungsten carbide, ceramic optional

Ruby jewel

Kynar

* (see Pressure vs. Temperature chart)

Fittings Compatability Chart							
Material	IP81	IP82					
Bronze	1"- 4" Tee	3"- 8" Braze fitting					
PVC	1/2"- 2" Tee	3"- 8" Saddle					
Polypro	N/A	3"- 8" Tee					
Stainless steel	1/2"- 2" Tee	3"- 8" Weld fitting					
Carbon steel	1/2"- 2" Tee	3"- 8" Weld fitting					



PVC Working Pressure vs. Temperature



Dimensions: PVC Fittings



* Requires saddle

How To Order



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