

NXL FLOW INSTRUMENTS



NXL MAGNETIC FLOWMETER





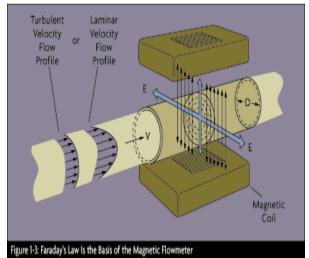


The NXL - 23 Series Electro Magnetic Flowmeters is the Best Ideal Flowmeter to Measure Flow of the Conductive Liquids Since It is an obstructionless Flowmeter are also ideally suited to media containing solids and Virtually Insensitive to the Temparature, Density and Viscosity,

Pressure of the Media.

Minimum Conductivity required is normally 5 MicroOhm/Cm.The NXL Magnetic Flow Meter is a Simply economically priced with a high measuring accuracy and Quality.

Principle of Operation



The Principle employs faradays law of electro magnetic induction Which States an electro motive Force (emf) is induced across the Conductor which Moves through the magnetic field at Right angles. The Induced Voltage Directly Propotional to the conductor (Fluid) Velocity.

A Magnetic Field is genarated by Compact high density coils mounted to a short section of straight pipe.As a conductive The Flow meter is a compact design consists of the Magnetic flow sensor and Converter.The flow meter Signal powered by pulsed DC field Exitation which confirms Excellent Zero Stability and High Measuring Accuracy. Applications are commonly Found in the Chemical, Pharmaceutical, Minning, Pulp, juice, Milk, Paper, Brine, sea Paste.Fruit Water, High Corrosive Liquids, Water and WastewatertreatmentIndustries,effuluent solutions, as well as energy management and off shore drilling flat Form System

Liquid Passes Thru The Pipe Section and It's a Magnetic Field,a Voltage is genarated that is propotional to the Velocity of the conductive liquid. The Voltage Induced Is Sensed by electrodes mounted by right angles to the magnetic field and in contact with the conductive liquid (or) Slurry. From the electrodes the voltage is transmitted to a Signal Converter Where it is conditioned to the desired output signals.

NXL Magnetic flowmeter genarates an open collector frequency (Propotional to the Liquid Velocity) of 10 KHz at Maximum Flow Rate.

The Standard analog Output is 4-20 mA (or) 0-20 mA DC into a 600 ohms Max Load.

Specifications:

Flow Range : 0.03 to 10 m/s

Accuracy : +/- 1% (Optional +/- 0.5 %) of Flow Rate.

Max Working Temp: Up to 65°CAmbient. Up to 150°C InProcess for PTFE Lining Upto 80°C in Process for Rubber Lining

Repetabilty : 0.3 %

Power Required : 115 VAC /230VAC +/- 10 % (Jumper Selectable)

24 VDC (Optional)

Connections: Flanged (F Type)/Between Flanges (W Type)/Tri Clamp

Liner materials: PTFE/Rubber Lined

/Polyruthene

Housing Material: Cast Aluminium

Electrode Material : 316 SS

(Optional Monel ,HastC ,Tantalum, Titanium,Platinum with 10% Iridium)

CAPACITIES:

| Pipe Size | Max Flow Rate | Min Flow Rate |
|---------------|---------------|---------------|
| | At 10 m/s | at 0.5 m/s |
| 1/4" (6 mm) | 17 LPM | 0.85 LPM |
| 1/2" (12 mm) | 106 LPM | 5.30 LPM |
| 1" (25 mm) | 300 LPM | 15.00 LPM |
| 11/2"(40 mm) | 750 LPM | 37.70 LPM |
| 2" (50 mm) | 1200LPM | 60.00 LPM |
| 3" (75 mm) | 180 M³/Hr | 9.0 M³ /Hr |
| 4" (100 mm) | 280 M3/Hr | 14.0 M³/Hr |
| 6" (150 mm) | 630 M³/Hr | 31.5 M³/Hr |
| 8" (200 mm) | 1130 M³/Hr | 56.5 M³/Hr |
| 10" (250 mm) | 1760 M³/Hr | 88.0 M³/Hr |



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