



NXL FLOW INSTRUMENTS

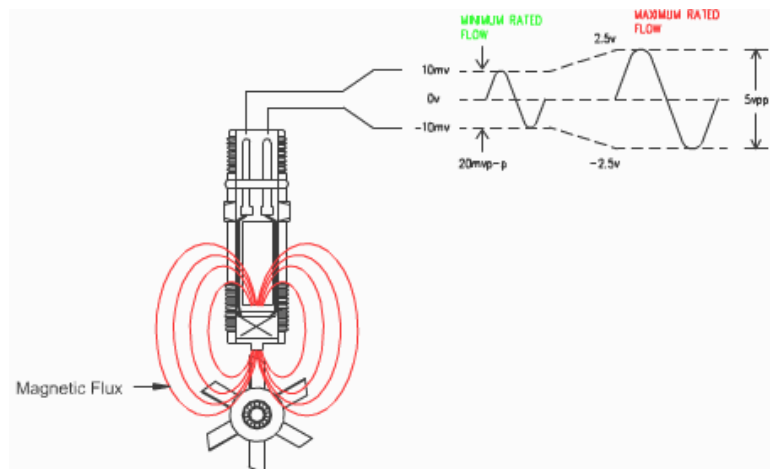
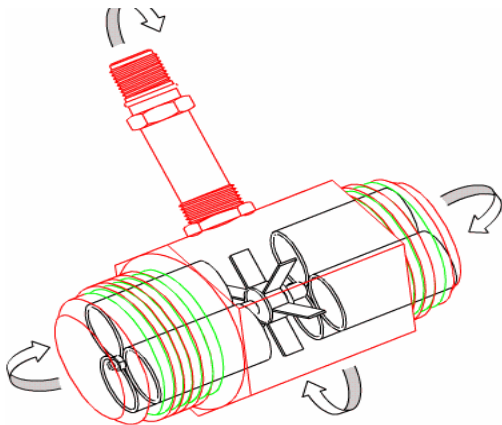
TURBINE FLOW METER-22series

INTRODUCTION:

NXL In-line Turbine FlowMeter is designed to measure the amount dispensed of liquid products in Oil, Gas Production, refining and general industrial petro chemical services. This model has applications in flow monitoring for totalisation and instant flow rate .



PRINCIPLE OF OPERATION:



Turbine Meters are volumetric flow measuring and transmitting devices produce out put signals directly proportional to the rate of flow of liquid product being measured. Pick off used to sense the speed of the rotor. The output is fed to the Indicator for display of flow rate or Any Display /monitoring units including Batchers.

SALIENT FEATURES:

- # Linear output over a wide flow range
- # Rugged & Compact design with non-contact transducer
- # High accuracy & repeatability

APPLICATIONS

NXL offers a wide range of turbine flowmeters and custom-engineered designs for liquid and gas applications to meet the demands of the aerospace, industrial and automotive users. Applications include fuel consumption, hydraulics, coolant, gas injection, batching, ultra pure water and feed back of process variables in control systems. Loading and unloading of tankers or rail cars. Any where high volume and/or high flowrates are atleast sometimes required in the application, the turbine meter is likely the right choice.

CAPACITIES:

Meter size (Model)	Flow Range in LPM	Pressure drop at Max Flow In Kg/Cm ² .
15NB (2215)	1.9- 19	0.56
20NB (2220)	7.5- 75	0.63
25NB/32NB (2225/32)	26.5-265	0.98
40NB (2240)	57.0-570	0.91
50NB (2250)	113-1130	0.98
75NB (2275)	265-2650	0.98
100NB (22100)	490-4900	0.98

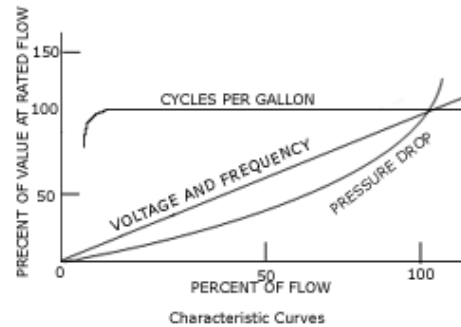
MATERIAL OF CONSTRUCTION

Body (Tube) : 316 SS/ 304SS, **Flanges** : Carbon Steel

Rotor Support : 316 SS

Rotor : 430F SS

Bearings : Tungsten Carbide



SPECIFICATIONS:

Op Pressure : Defined By Endconnections
upto 400 bar

Pick Off Type: Magnetic Output 15 to 20 mV min

Temperature : -20 Deg C to 80 Deg C

Linearity : +/- 0.5% of Reading

Repeatability : +/- 0.05% of Reading

Display : 6 digit LCD (Total Mode)
4 digit LCD (Flowrate Mode)

Power Supply: Self Powered-replaceble Lithium Batteries

(**Optional**) External 8-24 V dc via 4-20mA loop

Enclosure : IP 66 (Mounted on the Meter)

Units (Total) : Litres, Gallons, Cubic Meters

Time (Rate) : Per Second, Minutes, Hour

K Factor Range/Decimals : Programmable

Data input : Via Keys

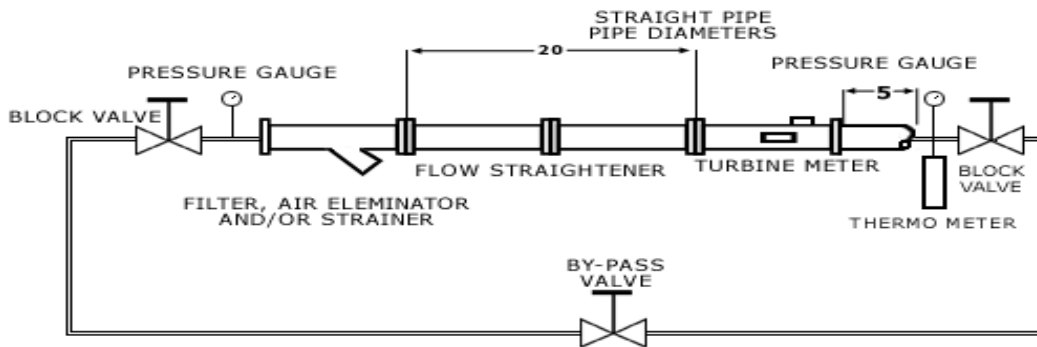
Analogue Output : optional 2 Wire 0/4-20mA,
12-24V dc into 750 ohms @ 24 V.

Linearisation : Up to 10 Points.(optional)

Indications : Low Battery Indication

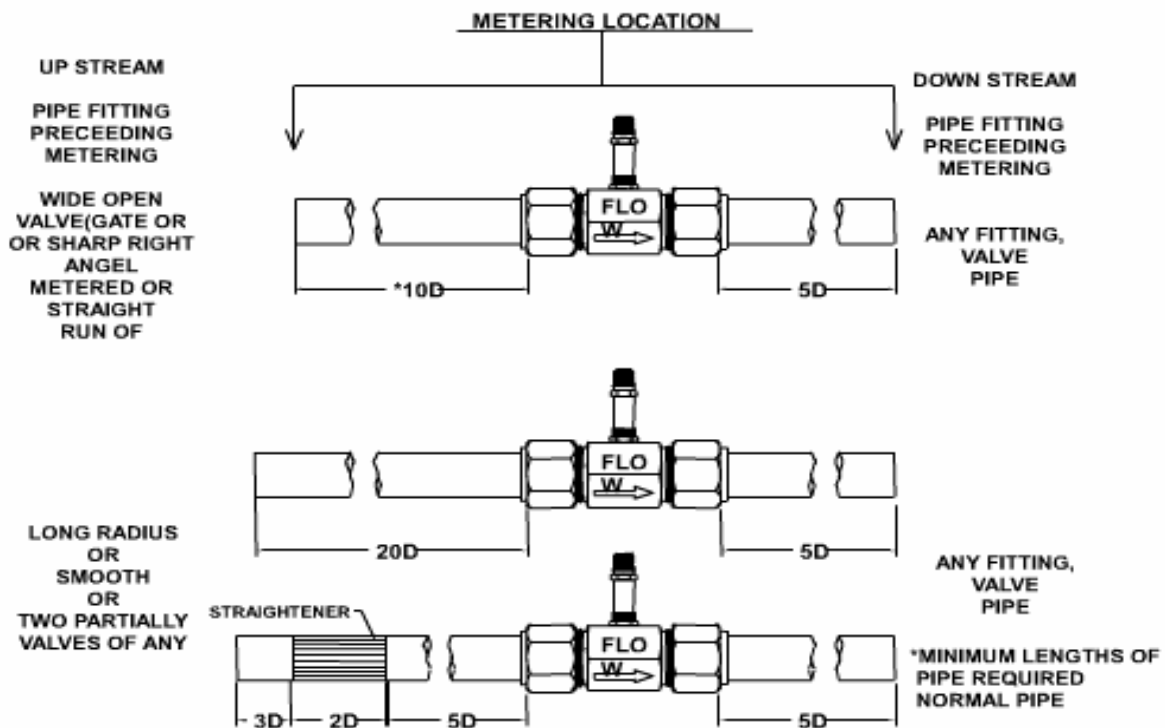
INSTALLATION:

Turbine Meter System Schematic Diagram



It is recommended that the piping installation as followed for optimum performance of the meter.

3 TYPICAL METERING RUNS



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