

GL Flow LX Liquid Bi-Directional Turbine Flowmeters

The LX range of bi-directional Turbine Flowmeters meets the demand of most liquid measurement applications.

They basically comprise of three-component assembly, fitted inside a stainless steel body (locked with retaining rings), which has a magnetic pick-up. The meters are available in threaded, flanged, wafer (designed for between flange installations) or Tri -Clamp (for Dairy, Brewery, Pharmaceutical and Food processing industries) connections.

The Rotor & Shaft assembly, which is mounted in sleeve bearings, fitted inside support assemblies is turned by the kinetic energy of the flowing fluid at an angular velocity, which in the linear range of the Flowmeter is proportional to the mean axial velocity of the fluid.

The Rotor blades sweep out the full bore of the flow meter except for a small tip clearance space. As the blade tips pass the magnetic pick-up (through the housing wall) they initiate pulses. Flow rate is determined by the frequency of the pulses and totalized flow is obtained by accumulating the pulses.



GL Flow series "101" Totalizers sum the pulses automatically and display Flow Rate and Total Flow on the readout. The Totalizer can be mounted on the Turbine or placed remotely.

GENERAL SPECIFICATIONS

Materials

Body:	316 Stainless Steel
Rotor Supports:	316 Stainless Steel
Bearings:	Wear resistant Tungsten Carbide Sleeve
Rotor:	ANC1A Stainless Steel
Rotor Shaft:	Tungsten Carbide

Performance

Accuracy:	± 0.5 % of Reading ($< \pm 0.2$ % of R. when used with "101" Totalizer)
Repeatability:	± 0.15 % of Reading
Viscosity:	< 100 cSt with no influence on accuracy
Temperature:	-50 to 280 °C (- 58 to + 536 °F) maximum 325 °C (617 °F) with optional High Temperature Pick-Up).
Pressure Drop:	less than 0.5 bar (7.25 psi) at maximum flow rate.
Flow Direction:	Standard bi-directional; indication of flow direction optional



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Style

NPT:	NPT Male Threaded
BSP:	BSPP Male Threaded
FL1:	ANSI 150 Flanged
FL2:	ANSI 300 Flanged
TRI:	Tri – Clamp



Options

HT:	High Temperature Pick-Up
IS:	Intrinsically Safe Pick-Up
QU:	Flow direction signal

NPT & BSP Style

Maximum Pressure: 250 bar (3625 psi)

Size	Connection	Flow Range lpm (gpm)	Length (inches)
½ "	½ " NPT / BSP	2 – 20 (0.53– 5.3)	2.75
5/8 "	¾ " NPT / BSP	5 – 50 (1.3 – 13)	3.0
¾ "	¾ " NPT / BSP	14 – 140 (3.7 – 37)	3.0
1 "	1" NPT / BSP	27 – 270 (7.1 – 71)	3.0
1 ½ "	1 ½" NPT / BSP	55 – 550 (14.5 – 145)	4.5
2 "	2 " NPT / BSP	114 – 1140 (30 – 300)	5.25

FL1 Style

Max. Pressure: 20 bar (290 psi)

FL2 Style

Max. Pressure: 50 bar (740 psi)

Size	Connection	Flow Range lpm (gpm)	Length (inches)
½ "	¾" FL1 / FL2	2 – 20 (0.53– 5.3)	5.5
5/8 "	¾" FL1 / FL2	5 – 50 (1.3 – 13)	5.5
¾ "	¾" FL1 / FL2	14 – 140 (3.7 – 37)	5.5
1 "	1" FL1 / FL2	27 – 270 (7.1 – 71)	6.0
1 ½ "	1½ " FL1 / FL2	55 – 550 (14.5 – 145)	6.5
2 "	2 " FL1 / FL2	114 – 1140 (30 – 300)	6.5
3 "	3 " FL1 / FL2	227 – 2270 (60 – 600)	6.5
4 "	4 " FL1 / FL2	454 – 4540 (120 – 1200)	8.25



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TRI-Clamp Style**Maximum Pressure: 50 bar (725 psi)**

Size	Connection	Flow Range lpm (gpm)	Length (inches)
3/4 "	3/4 " Ferrule	14 – 140 (3.7 – 37)	2.5
1 "	1 " Ferrule	27 – 270 (7.1 – 71)	2.5
1 1/2 "	1 1/2" Ferrule	55 – 550 (14.5 – 145)	3.5
2 "	2" Ferrule	114 – 1140 (30 – 300)	4.0

LX Turbines suitable for Hazardous Installations are available with optional Intrinsically Safe Variable Reluctance Pick-up according to ATEX Ex ia IIC T6 to T3.

Order Code: **LX / Style / Size / (Option)**

e.g.: LX / NPT / 2 " / HT

Internals Kit 's (calibrated) can be supplied, which are retrofittable to an existing GL Flow Meter.



Flange



Treaded



Tri-clamp



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