

LIQUID TURBINE FLOW METER

GILT-N1 series



Description

GILT turbine flow meter is used for volumetric total flow and/or flow rate measurement and has a relatively simple working principle. As fluid flows through the turbine meter, it impinges upon turbine blades that are free to rotate about an axis along the center line of the turbine housing. The angular (rotational) velocity of the turbine rotor is directly proportional to the fluid velocity flowing through the turbine. The resulting output is taken by an electrical pickoff(s) mounted on the flow meter body.

GILT-N2 & A series



Specification

Diameter range: DN4-DN200
Accuracy: $\pm 1.0\%$; $\pm 0.5\%$
Fluid temperature: $-20 \dots +150^\circ\text{C}$
Body material: SS304; SS316
Rotor material: 2Cr13; CD4MCu
Process connection: Flange, Wafer, Thread, Tri-clamp

GILT-E series



Flow Range

Diameter (mm)	Standard Range (m ³ /h)	Extended Range (m ³ /h)
4	0.04-0.25	0.04-0.4
6	0.1-0.6	0.06-0.6
10	0.2-1.2	0.15-1.5
15	0.6-6	0.4-8
20	0.8-8	0.45-9
25	1-10	0.5-10
32	1.5-15	0.8-15
40	2-20	1-20
50	4-40	2-40
65	7-70	4-70
80	10-100	5-100
100	20-200	10-200
125	25-250	13-250
150	30-300	15-300

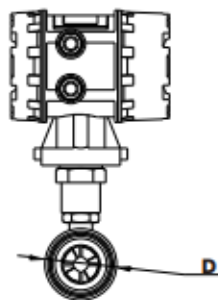
LIQUID TURBINE FLOW METER

Model	Suffix Code									Description
GILT-	1	2	3	4	5	6	7	8	9	Liquid Turbine Flowmeter
Diameter	XXX									Stand for diameter 004: DN4; 006: DN6 100: DN100; 200: DN200
		N1								24V DC; Pulse output; No display
		N2								24V DC; Pulse output; No display; Ex
		A								24V DC; 4-20mA output; No display; Ex
		E1								Battery power supply; No output; Ex; Digital display
		E2								24V DC; 2/3 wire 4-20mA and pulse output; Ex; Digital display
Converter Type		G								220Vac; 4-20mA output; Ex; Digital display
		FE								FE: Fluidwell E series converter(Refer to page 22)
		FF								FF: Fluidwell F series converter(Refer to page 23)
		Notice:								1) Modbus RS485 is optional for E2, E3, E4, E5 and M type 2) Dual Power(24VDC+ Battery) is optional for E2, E3, E4, E5, M
Accuracy			10							$\pm 1.0\%$ of rate
			05							$\pm 0.5\%$ of rate
Flow Range			S							Standard Range
			E							Extended Range
Body Material				S4						SS304
				S6						SS316
				PL						Plastic(DN15-DN50)
Rotor Material					Cr					2Cr13
					CD					CD4MCu
Explosion Proof							BT			Exd II BT6
							NA			No explosion proof
Connection								THM		Male thread; Available from DN4...DN50
								THF		Female thread; Available from DN4...DN50
								WAF		Wafer connection
								DXX		D16: DIN PN16 Flange; D25: DIN PN25 Flange...
								AXX		A15: ANSI 150# Flange; A30: ANSI 300# Flange...
								JXX		J10: JIS 10K Flange; J20: JIS 20K Flange...
Temperature								T1		$-20 \dots +80^\circ\text{C}$
								T2		$-20 \dots +120^\circ\text{C}$
								T3		$-20 \dots +150^\circ\text{C}$

- 1 2 3 4 5 6 7 8 9
- GILT 050 E5 10 S S4 Cr BT D16 T2
- 1 050: DN50
- 2 E5: 3- wire 4-20mA / Pulse output; 24V DC power supply
- 3 10: 1.0% of rate accuracy
- 4 S: 0.2-1.2m³/h
- 5 S4: SS304 body material
- 6 Cr: 2Cr13 rotor
- 7 BT: Exd II BT6
- 8 D16: Flange DIN PN16
- 9 T2: $-20 \dots 120^\circ\text{C}$

SANITARY LIQUID TURBINE FLOW METER

Description



- DN4-DN100
- Pressure resistant to 10 bar
- Viscosity from 1 to 10 cst
- Communication: Modbus RS485/ HART

Diameter	L	A	B	d	D
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
4	50	Φ46	Φ40.5	4	Φ50
6	50	Φ46	Φ40.5	6	Φ50
10	50	Φ46	Φ40.5	10	Φ50
15	100	Φ46	Φ40.5	15	Φ50
20	100	Φ46	Φ40.5	20	Φ50
25	100	Φ46	Φ40.5	25	Φ50
32	120	Φ46	Φ40.5	32	Φ50
40	140	Φ59	Φ53.5	40	Φ64
50	150	Φ73.5	Φ68	50	Φ78
65	170	Φ86	Φ80.5	65	Φ91
80	200	Φ100.5	Φ94	80	Φ106
100	220	Φ113	Φ106	100	Φ119

Model	Suffix Code									Description		
GILT-S	1	2	3	4	4	5	6	7	8	9	Sanitary Liquid Turbine Flowmeter	
Diameter	XXX										Stand for diameter 004: DN4; 100: DN100	
Converter Type		N1									24V DC; Pulse output; No display	
		N2									24V DC; Pulse output; No display; Ex	
		A									24V DC; 4-20mA output; No display; Ex	
		E1									Battery power supply; No output; Ex; Digital display	
		E2									24V DC; 2/3 wire 4-20mA and pulse output; Ex; Digital display	
		G									110-240Vac; 4-20mA output; Ex; Digital display	
		FE									Fluidwell E series converter (Refer to page 22)	
		FF									Fluidwell F series converter (Refer to page 23)	
		Notice:										1) Modbus RS485 is optional for E2, E3, E4, E5 and M type 2) Dual Power(24V DC+ Battery) is optional for E2, E3, E4, E5 and M
	Accuracy		10									±1.0% of rate
		05									±0.5% of rate	
		02									±0.2% of rate	
Flow Range			S								Standard Range	
			E								Extended Range	
Body Material					S4						SS304	
					S6						SS316	
Rotor Material						Cr					2Cr13	
						CD					CD4MCu	
Explosion Proof							BT				Exd II BT6	
							NA				None	
Connection								TRC			Tri-clamp for sanitary connection	
Temperature									T1		-20...+80°C	
									T2		-20...+120°C	
									T3		-20...+150°C	