

Liquid Turbine Flowmeter
Model: IFLO-LWGY Series

FEATURES

- ❑ Light oil & purity liquid measurement
- ❑ Modbus RS485 communication
- ❑ Backlight option
- ❑ Working Max Temp. +150°C
- ❑ Unit of GPM, KG/H, Ft3/h, LPM, m³/h, Ton/h
- ❑ Totalizer rest



STANDARD SPECIFICATION

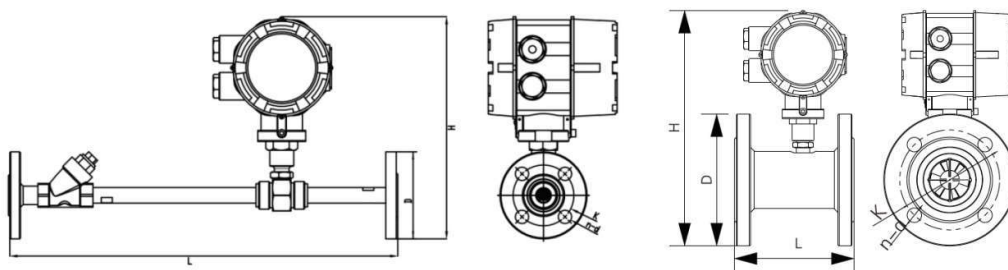
Output	Pulse; 4-20mA	
Accuracy	±1.0 of Rate; ±0.5% of Rate	
Ambient Temp.	-20... +60 °C	
Fluid Temp.	-40... +80 °C -40... +150 °C	
Body Material	SS304; SS316	
Rotor Material	2Cr13; CD4MCu	
Bearing Material	Tungsten Carbide	
Connection	Flange of DIN, JIS, ANSI	DN4- DN300
	Thread of G, BSP, NPT	Female thread: DN4-DN50 Male thread: DN4-DN80
	Tri - Clamp	DN4-DN100
	Wafer	DN15 - DN200
Communication	RS485	
Power Supply	24V DC; Battery; 220V AC (Only for G type) 24V DC; Battery; 220V AC	
Protection	IP65	
Explosion Proof	Exd II CT6 Gb	
Electrical Connection	M20*1.5, 1/2 NPT is optional for A and E series M20*1.5, A and E series, 1/2 NPT optional	
kinematic Viscosity	No more than 5 CST	

FLOW RANGE

Diameter	Standard Range (m³/h)	Accuracy with A or N type converter	Accuracy with E or G type converter	Extend Range (m³/h)	Accuracy with E or G type converter	Max. Pressure loss (Kpa)
4	0.04-0.25	±2.5%	±1.0% ±0.5%	0.04-0.4	±1.0% ±0.5%	120
6	0.1-0.6	±1.5%	±1.0% ±0.5%	0.06-0.6	±1.0% ±0.5%	80
10	0.2-1.2	±1.0%	±1.0% ±0.5%	0.15-1.5	±1.0% ±0.5%	50
15	0.6-6	±1.0%	±1.0% ±0.5%	0.5-5	±1.0% ±0.5%	35
20	0.8-8	±1.0% ±0.5%	±1.0% ±0.5%	0.45-9	±1.0% ±0.5%	35
25	1-10	±1.0% ±0.5%	±1.0% ±0.5% ±0.2%	0.5-10	±1.0% ±0.5%	35
32	1.5-15	±1.0% ±0.5%	±1.0% ±0.5%	0.8-15	±1.0% ±0.5%	35
40	2-20	±1.0% ±0.5%	±0.2%	1-20	±1.0% ±0.5%	35
50	4-40	±1.0% ±0.5%	±1.0% ±0.5%	2-40	±1.0% ±0.5%	35
65	7-70	±1.0% ±0.5%	±0.2%	5-70	±1.0% ±0.5%	25
80	10-100	±1.0% ±0.5%	±1.0% ±0.5%	7-100	±1.0% ±0.5%	25
100	20-200	±1.0% ±0.5%	±0.2%	10-200	±1.0% ±0.5%	25
125	25-250	±1.0% ±0.5%	±1.0% ±0.5%	13-250	±1.0% ±0.5%	25
150	30-300	±1.0% ±0.5%	±0.2%	15-300	±1.0% ±0.5%	25
200	80-800	±1.0% ±0.5%	±1.0% ±0.5%	40-800	±1.0% ±0.5%	25
250	100-1000	±1.0% ±0.5%	±0.2%	-	-	-
300	120-1200	±1.0% ±0.5%	±1.0% ±0.5%	-	-	-

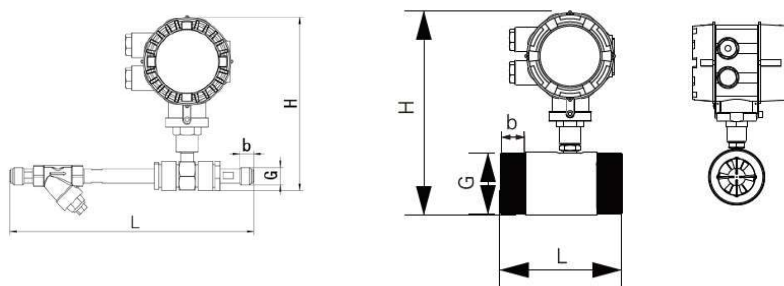
DIMENSIONS

Flange Connection



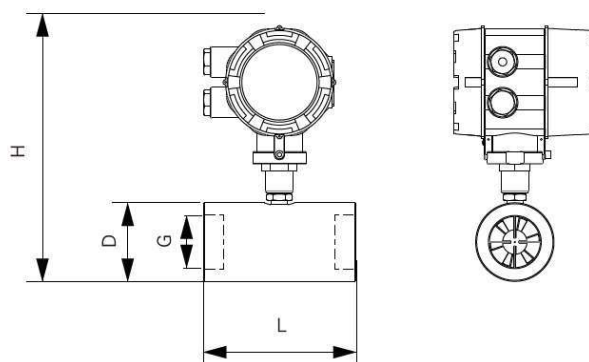
Diameter (mm)	L (mm)	D (mm)	K (mm)	d (mm)	n (Bolt Holes)
4	296	95	65	14	4
6	296	95	65	14	4
10	413	95	65	14	4
15	75	95	65	14	4
20	85	105	75	14	4
25	100	115	85	14	4
32	140	140	100	18	4
40	140	150	110	18	4
50	150	165	125	18	4
65	170	185	145	18	8
80	200	200	160	18	8
100	220	220	180	18	8
125	250	250	210	18	8
150	300	285	240	22	8
200	350	340	295	22	12
250	400	405	355	26	12
300	350	460	410	26	12

External Threaded Connection



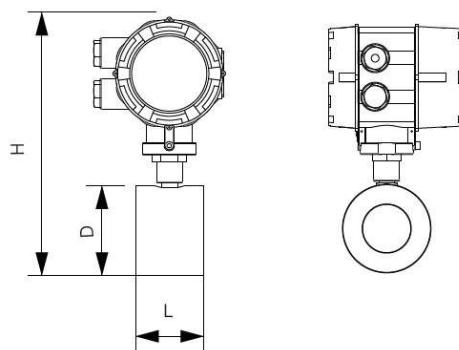
Diameter (mm)	L (mm)	G (External Thread)	b (mm)
4	296	G½	13
6	296	G½	13
10	413	G½	13
15	75	G1	15
20	85	G1	13
25	100	G1¼	15
32	140	G2	20
40	140	G2	20
50	150	G2½	30
65	170	G3	35
80	200	G4	40

Internal Threaded Connection



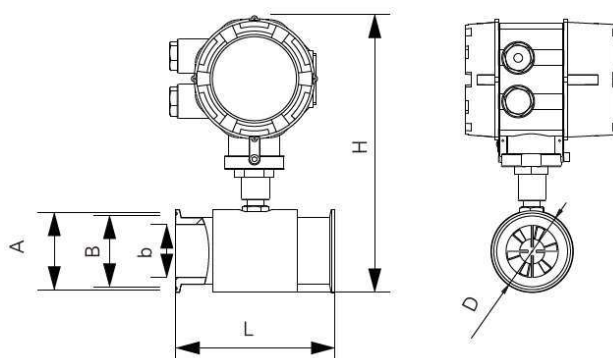
Diameter (mm)	L (mm)	G (Internal Thread)	D (mm)
4	75	G3/8	42
6	75	G3/8	42
10	75	G1/2	42
15	100	G1/2	44
20	120	G3/4	43
25	120	G1	49
32	120	G1 ¼	56
40	120	G1 ½	60
50	120	G2	72

Wafer Connection



Diameter (mm)	L (mm)	D (mm)	H (mm) - GN10	H (mm) - GN20/GA10	H (mm) - GN30	H (mm) - GN40	H (mm) - GA20	H (mm) - GE12/GE13	H (mm) - GE11/GE14
4	50	38	—	—	—	—	—	—	—
6	50	38	—	—	—	—	—	—	—
10	50	38	—	—	—	—	—	—	—
15	55	47	171	227	141	141	211	274	271
20	60	53	173	229	143	144	214	276	273
25	60	58	178	234	148	149	219	281	278
32	70	66	186	242	156	156	226	289	286
40	70	72	193	249	163	163	233	296	293
50	70	92	208	264	178	178	248	311	308
65	80	100	219	275	189	190	260	322	319
80	90	112	233	289	203	203	273	336	333
100	100	137	255	311	225	226	296	358	355
125	120	165	282	338	252	252	322	385	382
150	150	190	307	363	277	277	347	410	407
200	150	242	358	414	328	328	398	461	458

Tri-clamp Connection



Diameter (mm)	L (mm)	D (mm)	A (mm)	B (mm)	b (mm)
4	50	50.5	47	40.5	4
6	50	50.5	47	40.5	6
10	50	50.5	47	40.5	10
15	100	50.5	47	40.5	15
20	100	50.5	47	40.5	20
25	100	50.5	47	40.5	25
32	120	50.5	47	40.5	32
40	140	64	59.5	53.5	40
50	150	78	73.5	68	50
65	170	91	86.5	80.5	65
80	200	106	101.5	94	80
100	220	130	124	118	100

MODELSELECTION GUIDE

Model	Suffix Code										Description
IFLO-LWGY	1	2	3	4	5	6	7	8	9	10	Liquid Turbine Flow Meter
Diameter	XXX										Stand for diameter 004: DN4; 006: DN6 100: DN100; 200: DN200
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 wires 4-20mA/ Pulse output; Ex ; Digital display
	E4										24V DC; 0-20mA output; Ex; Digital display
	G										220V AC; 4-20mA output; Ex; Digital display
	FE										FE: Fluidwell E series converter(Refer to page 11)
	FF										FF: Fluidwell F series converter(Refer to page 12)
	Notice:										1) Modbus RS485 is optional for E2, E4, and G type 2) Dual Power(24V DC+ Battery) is optional for E2, E4, G type
Accuracy		10									±1.0% of rate
		05									±0.5% of rate
		02									±0.2% of rate (consult with factory)
Flow Range			S								Standard Range
			E								Extended Range
Body Material						S4					SS304
						S6					SS316
Rotor Material							Cr				2Cr13
							CD				CD4MCu
Explosion Proof								CT			Exd II C T6 Gb
								NA			No explosion proof
Connection									THM		Male thread; Available from DN4...DN50
									THF		Female thread; Available from DN4...DN50
									WAF		Wafer connection
									TRC		DN10- DN 100 (Sanitary type)
									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...+80°C
									T2		-20...+120°C
									T3		-20...+150°C