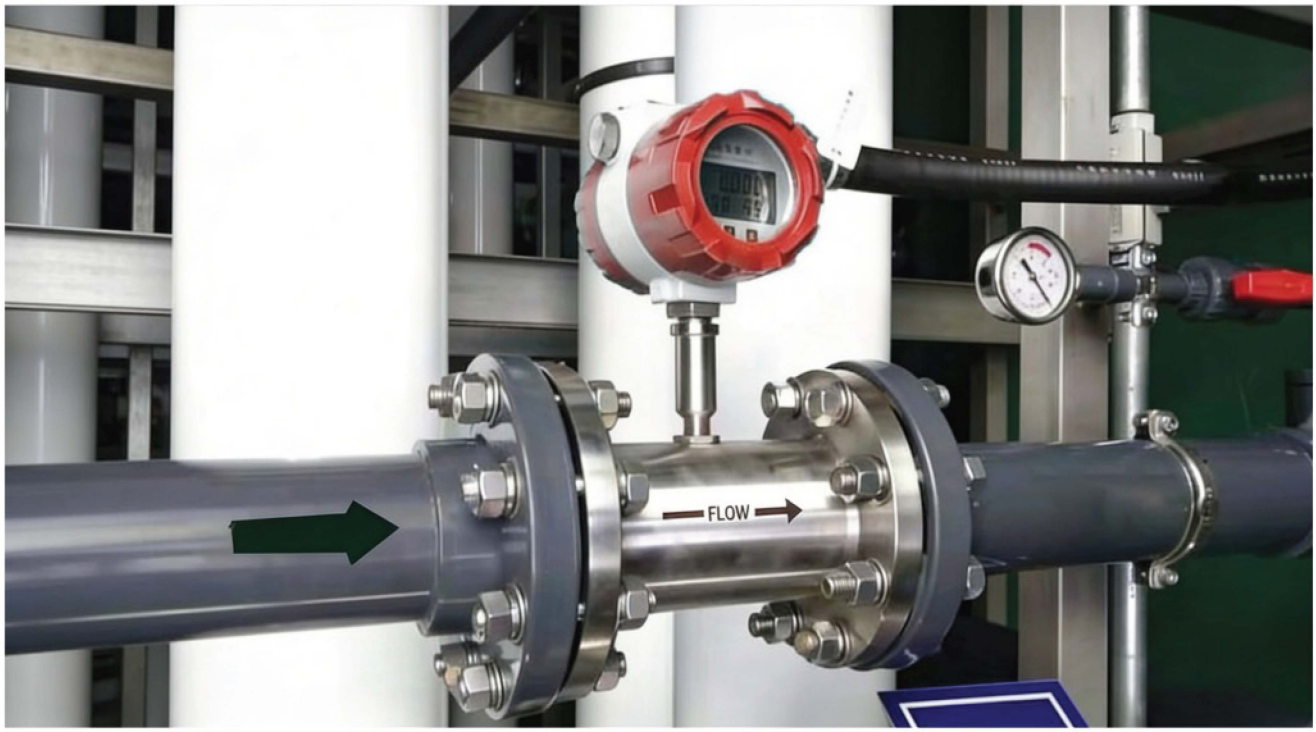
ABZAR TAMIN ARSHIA CO.

Liquid Turbine Flow Meter

Liquid Turbine Flow Meter



Main Features

- Sanitary-grade flowmeter, designed for measuring conductive, non-conductive, and non-corrosive liquids.
- High measurement accuracy, reaching up to ±0.5% FS.
- Excellent repeatability, with short-term repeatability ranging from 0.05% to 0.2%; features high sensitivity and strong stability.
- Medium temperature range: -20℃-120℃; supports high-temperature customization (-20℃-150℃).
- Suitable for media with a viscosity of less than $5 \times {}^{-6}10$ m^2/s.
- Supports dual power supply (24 VDC + 3.6 V).
- Conductive and non-conductive, non-corrosive liquids. For example: milk, pure water, alcohol, diesel, etc.
- It is widely used in flow measurement and control in food, medicine, petrochemical and other production processes.

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Liquid Turbine Flow Meter

Measurement Media

1.Conductive and non-conductive, non-corrosive liquids. Examples: milk, pure water, alcohol, diesel, etc.

2.Widely applied for flow measurement and control in production processes within the food, pharmaceutical, petrochemical, and other industries.

Flow Range Sheet

Turbine m^3/h					
DN4	0.04–0.25	DN25	1–10	DN80	10–100
DN6	0.1–0.6	DN32	1.5–15	DN100	20–200
DN10	0.2–1.2	DN40	2–20	DN125	25–250
DN15	0.6–6	DN50	4–40	DN150	30–300
DN20	0.8–8	DN65	7–70	DN200	80–800

Technical Data

Item	Parameters
Nominal diameter	DN4–200mm
Power supply	24VDC, 3.6V, 220VAC
Material	SS304, SS316
Medium temperature	–20–120℃ (150℃ high temp. rod customizable)
Rated pressure	0.6–4.0MPa (high pressure customizable)
Connection type	thread connection (DN4–50mm) tri-clamp connection (DN15–80mm) Flange type (DN10–200mm)
Flange standard	GB, ANSI, DIN, JIS
Protection level	IP65
Remote type cable	10m (standard configuration)
Output communication	Pulse, 4–20mA, RS485 MODBUS, Hart
Explosion proof	Ex d IIC T6 Gb

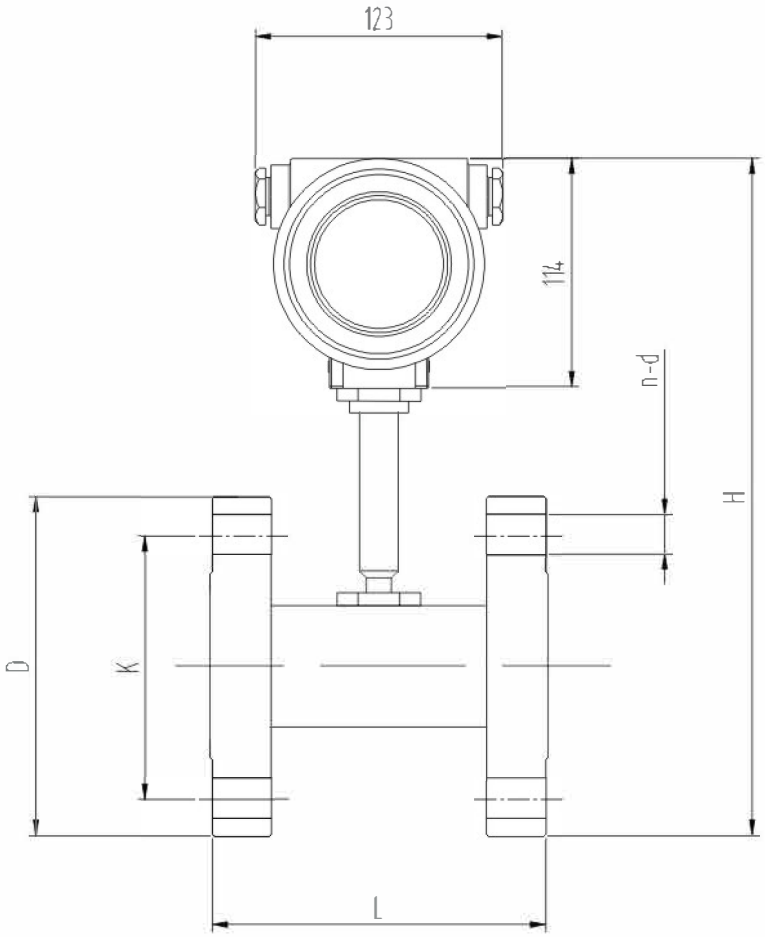
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Dimension



Inch	Caliber	L (mm)	D (mm)	K (mm)	H (mm)	d (mm)	n
1/2	DN15	75	95	65	260	14	4
3/4	DN20	85	105	75	270	14	4
1	DN25	100	115	85	280	14	4
1 1/4	DN32	120	140	100	290	18	4
1 1/2	DN40	140	150	110	300	18	4
2	DN50	150	165	125	310	18	4
2 1/2	DN65	175	185	145	330	18	4
3	DN80	200	200	160	340	18	8
4	DN100	220	220	180	360	18	8
5	DN125	250	250	210	390	18	8
6	DN150	300	285	240	420	22	8
8	DN200	360	340	295	470	22	12

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Selection Table

BTLWGY	XXX	X	X	X	X	X	X	X	X	X
Nominal diameter (mm)	Nominal Diameter Coding									
Design pressure	PN10 PN16 PN25 PN40	PN*								
	A15: ANSI 150# A30: ANSI 300# A60: ANSI 600#	A*								
	others(eg.J10: JIS 10K; D16:DIN PN16)	*								
Connection	flange		1							
	tri-clamp		2							
	thread		3							
	wafer		4							
	others		5							
LCD Display	Without			F						
	With			R						
Signal Output	pulse				N					
	4-20mA				A					
	4-20mA+pulse				B					
	4-20mA+RS485				C					
	4-20mA+HART				D					
	4-20mA+pulse+RS485				E					
	others				F					
Power supply	3.6V					1				
	24VDC (12-36VDC)					2				
	3.6V+24VDC					3				
	220VAC					4				
Design temperature	-20-130℃						S			
	-20-180℃						G			
Sensor Material	SS304							1		
	SS316							2		
Impeller material	430F stainless steel								1	
	Duplex steel								2	
Anti-explosion	Non-explosion proof									N
	Exd II BT6									E

Nominal Diameter Coding Table	
Nominal diameter	Coding
15	015
20	020
25	025
32	032
40	040
50	050
65	065
80	080
100	110
125	112
150	115
200	120
250	125
300	130

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