

# Turbine Flow Meter

BTM Series >>>>



Industry-leading performance in measuring liquid flow

A unique design delivers unparalleled measurement sensitivity and stability.

## Introduction

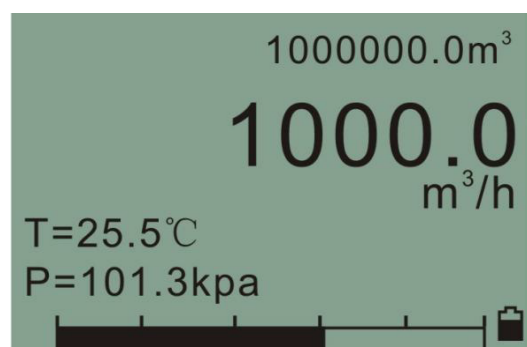
Bethel turbine flow meter consists of turbine flow sensor and display instrument. The flow meter is characterized by simple structure, high precision and easy installation. It is applicable in closed pipes to measure the flow of liquid which will not erode stainless steel (1Cr18Ni9Ti), 2Cr13, Al<sub>2</sub>O<sub>3</sub> and hard alloy and is free of impurities such as fiber and granules. If this product is used in association with display instruments with special functions, it can be used for automatic definite quantity control and alarming in case of excessive amount.

## Application

Oil Industry, Chemical Industry, Metallurgy, Marine, Water Supply, Paper-making, Food Industry.

## Liquid Flow Rates

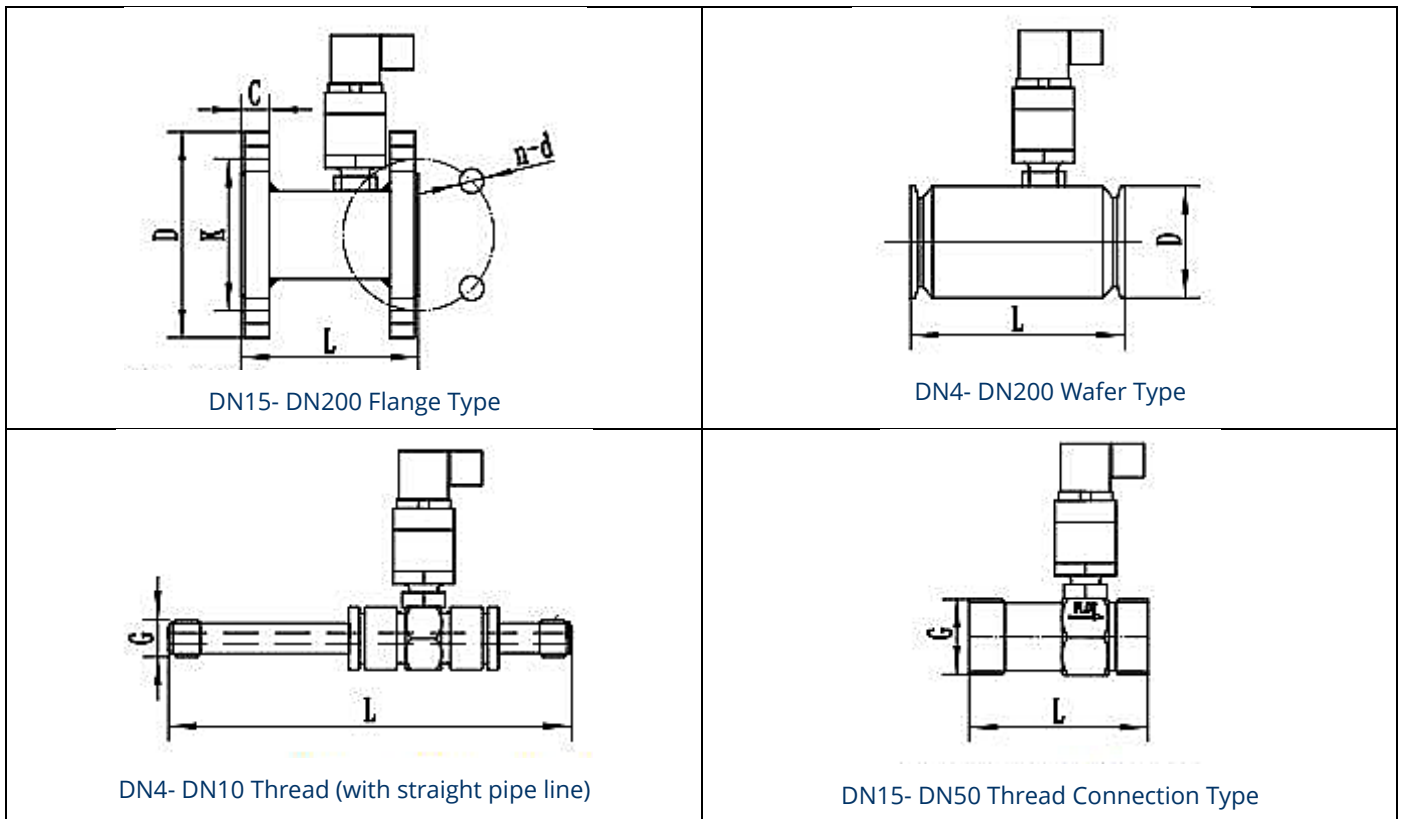
Size	Standard Flow Range(m <sup>3</sup> /h)	Extended Flow Range(m <sup>3</sup> /h)	Common Connection & Pressure
DN4	0.04-0.25	0.04-0.4	Thread/6.3Pa
DN6	0.1-0.6	0.06-0.6	Thread/6.3Pa
DN10	0.2-1.2	0.15-1.5	Thread/6.3Pa
DN15	0.6-6	0.4-8	Thread/6.3MPa
			Flange/4.0MPa
DN20	0.8-8	0.45-9	Thread/6.3MPa
			Flange/4.0MPa
DN25	1-10	0.5-10	Thread/6.3MPa
			Flange/4.0MPa
DN32	1.5-15	0.75-15	Thread/6.3MPa
			Flange/4.0MPa
DN40	2-20	1-20	Thread/6.3MPa
			Flange/4.0MPa
DN50	4-40	2-40	Thread/6.3MPa
			Flange/4.0MPa
DN65	7-70	3.5-70	Thread/1.6MPa
			Flange/1.6MPa
DN8	10-100	5-100	Thread/1.6MPa
			Flange/1.6MPa
DN100	20-200	10-200	Thread/1.6MPa
			Flange/1.6MPa
DN125	25-250	12.5-250	Flange/1.6MPa
DN150	30-300	15-300	Flange/1.6MPa
DN200	80-800	40-800	Flange/1.6MPa
Customized pressure 4-42Mpa			
Tri-clamp connection optional (Size DN4-DN80, pressure 1.6MPa)			



Display

- Total Flow
- Instantaneous Flow
- Temperature
- Pressure
- Power State

Sizes



DN (mm)	Flange					Flange Thickness C (mm)	Thread G (Male)	Tri-Clamp OD (mm)
	L (mm)	D (mm)	K (mm)	d (mm)	n (No of Holes)			
4	225						G 1/2	50.5
6	225						G 1/2	50.5
10	345	90	60	14	4	16	G 1/2	50.5
15	75	95	65	14	4	16	G 1	50.5
20	80	105	75	14	4	18	G 1	50.5
25	100	115	85	14	4	18	G 1/4	50.5
32	120	140	100	18	4	18	G 1/2	50.5
40	140	150	110	18	4	19	G 2	64
50	150	165	125	18	4	21	G 2 1/2	77
65	175	185	145	18	4	21	G 3	91
80	200	200	160	18	8	23		106
100	220	220	180	18	8	23		119
125	250	250	210	18	8	25		
150	300	285	240	22	8	25		
200	360	340	295	22	12	27		
250	400	405	355	26	12	29		
300	450	460	410	26	12	32		

## Selection Code

LWGY-X		X	X	X	X	Description			
Type	LWGY-A					Flow sensor, Pulse output Three-wire system, +12V Power Supply.			
	LWGY-B					Local display, Powered by 3.6V battery.			
	LWGY-C					Local display with 4 ~20mA or pulse output, Powered by 24V.			
	LWGY-D					Flow transmitter 4~20mA output, Powered by 24V			
Nominal drift diameter	4					Normal flow range m3/h	0.04~0.25	Extended flow range m3/h	0.04~0.4
	6						0.1~0.6		0.06~6
	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		0.75~15
	40						2~20		1~20
	50						4~40		2~40
	65						7~70		3.5~70
	80						10~100		5~100
	100						20~200		10~200
	125						25~250		12.5~250
	150						30~300		15~300
200					80~800	40~800			
Explosion Protection						Not marked, without explosion proof			
		B				Explosion protection type			
Precision Class			A			Accuracy: 0.5			
			B				Accuracy: 1.0		
Turbine Type				A		Normal flow range			
				B				Extended flow range	
Connection				T		Thread (Please specify the standard)			
				F		Flange (Please specify the standard)			
				S		Sanitary			
Body Material				4		SS304			
				6		SS316			



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