ABZAR TAMIN ARSHIA CO.

Gas Turbine Flow Meter

LWGQ Gas Turbine Flow Meter



Main Features

◆ High accuracy, up to ±1.5%R, ±1.0%R;

◆ Sensitive response, good repeatability, short-term repeatability can reach 0.05%~0.2%. It is the preferred flow meter in trade settlement;

◆ Can detect the temperature, pressure and flow of the measured gas. High-reliability gas precision measuring instrument capable of automatic flow tracking and compensation;

◆ It can be equipped with oil injection pump to protect the impeller and prolong the service life of the flowmeter.

Measuring Medium

1. Mostly used for metering control of natural gas

2. It can also be used for biogas, liquefied petroleum gas, coal gas, nitrogen, hydrogen and other gases.

It is widely used in gas metering and gas pressure regulating stations, transmission and distribution pipeline networks, and urban natural gas metering in various industries such as petroleum, chemical industry, electric power, and industrial boilers.

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Flow Range Sheet

	Gas turbine m^3/h	
DN25	4–40	3–40
DN40	10–100	10–100
DN50	16–160	16–160
DN65	25–250	13–250
DN80	40–400	20–400
DN100	65–650	32–650
DN125	100–1000	40–1000
DN150	160–1600	80–1600
DN200	250–2500	125–2500
DN250	400–4000	400–4000
DN300	600–6500	325–6500

Technical Data

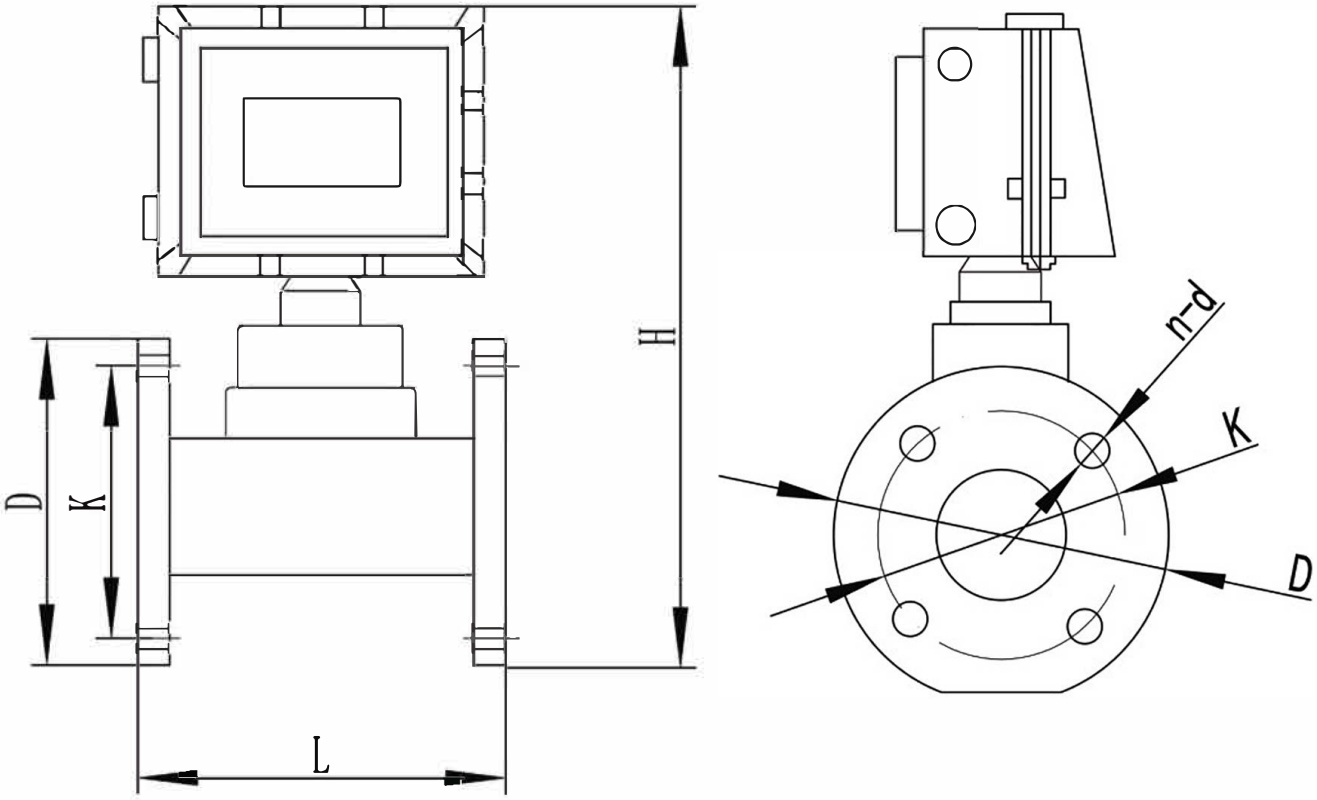
Item	Parameters
Nominal diameter	DN25–300mm
Power supply	24VDC+3.6V dual power supply
Material	SS304, SS316
Medium temperature	–20–80℃
Rated pressure	1.6MPa
Connection type	Thread connection (DN25–50mm), Flange type (DN10–300mm)
Flange standard	GB, ANSI, DIN, JIS
Protection level	IP65
Remote type cable	10m (standard configuration)
Output communication	Pulse, 4–20mA, RS485 MODBUS, Hart
Explosion proof	Ex ia IIC T6 Ga

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Dimension



Inch	DN	L (mm)	D (mm)	K (mm)	H (mm)	d (mm)	n
1	25	200	115	85	330	14	4
1 1/2	40	200	150	110	355	18	4
2	50	200	165	125	370	18	4
2 1/2	65	200	185	145	390	18	4
3	80	240	200	160	400	18	8
4	100	300	220	180	425	18	8
5	125	350	250	210	455	18	8
6	150	450	285	240	485	22	8
8	200	450	340	295	545	22	12
10	250	450	405	355	605	26	12
12	300	450	460	410	670	26	12

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Selection Table

BTLWGQ	XXX	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						
Signal Output	Pluse			N					
	4-20mA			A					
	4-20mA+pulse			B					
	4-20mA+pulse+RS485			C					
	4-20mA+Hart			D					
	others			E					
Power supply	3.6V				1				
	24VDC				2				
	3.6V+24VDC				3				
Accuracy	1% F.S					10			
	1.5% F.S					15			
Material	SS304						S		
	SS316						L		
Anti-explosion	Non-explosion proof							A	
	Exd II BT6							B	
Meter core material	anti-corrosion ABS								N
	aluminum alloy								H

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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