

The Series KF510-JA Wafer Type Paddlewheel Flowmeter

From DN15 to DN250, easy to install and maintain



The Serie KF510-JA Wafer Type Paddlewheel Flowmeter is commonly used for liquid flow measurement in industries such as water supply and drainage systems, petroleum, chemicals, and hydraulic systems. Featuring a simple structure and easy installation, it is widely applied in both industrial settings and laboratories. Its measurement principle involves fluid flowing through the flowmeter, driving the paddlewheel to rotate at a speed proportional to the fluid velocity. The paddlewheel drives an electromagnetic device, converting mechanical rotation into electrical pulse signals; calculating the pulse frequency yields the instantaneous or cumulative flow rate of the fluid.

FEATURES

- Threaded connection for convenient installation
- Intuitive measurement with linear correlation between rotational speed and flow rate
- High measurement accuracy
- Simple structure, easy maintenance, low maintenance cost
- Suitable for clean liquids like water and oil, featuring a wide turndown ratio and broad application range
- Highly sensitive to flow changes, rapid response, capable of reflecting flow velocity fluctuations in real time

APPLICATIONS

- Petrochemical Industry
- Metallurgical Industry
- Textile Industry
- Pharmaceutical Industry
- Semiconductor Industry
- Food and Beverage Industry
- Paper and Pulp
- Power Plants
- Urban Water Supply and Drainage
- Environmental Protection
- New Energy Industry
- Shipbuilding Industry

SPECIFICATIONS	
Wetted Materials	Paddlewheel: PVDF, PTFE; Shaft: Ceramic; Seal Ring: FKM
Pipe Size	DN15- DN250
Flow Velocity Range	0.3m/s ~ 6m/s
Accuracy	±1.5%FS
Repeatability	±0.5%
Ambient Temperature	-20°C to 65°C
Temperature Rating	PVDF: -20°C to 80°C
Pressure Rating	0.8MPa or 1.0MPa
Dimensions	100mm × 100mm
Installation Type	Panel-mounted type (cutout size 95*95), integrated pipe type
Power Supply	24V DC, optional battery power supply
Output	4-20mA + Pulse + RS485
Power Consumption	2W
Enclosure Rating	IP65

MODEL CHART									
Example	KF510-JA	-A	-65	-2	-AT	-2	-4	-2	
Series	KF510-JA								Wafer Type Paddlewheel Flowmeter
Converter Type		A							Integrated Type
		B							Remote Type
Pipe Size			15						DN15, Flow Range: 0.2m³/h - 4 m³/h, Working Pressure: 0.8MPa
			20						DN20, Flow Range: 0.3m³/h - 6 m³/h, Working Pressure: 0.8MPa
			25						DN25, Flow Range: 0.5m³/h - 12 m³/h, Working Pressure: 0.8MPa
			40						DN40, Flow Range: 2m³/h - 24 m³/h, Working Pressure: 0.8MPa
			50						DN50, Flow Range: 4m³/h - 40 m³/h, Working Pressure: 0.8MPa, C=124mm, N-ΦA=4-Φ18
			65						DN65, Flow Range: 6m³/h - 60 m³/h, Working Pressure: 0.8MPa, C=145mm, N-ΦA=4-Φ18
			80						DN80, Flow Range: 10m³/h - 100 m³/h, Working Pressure: 0.8MPa, C=160mm, N-ΦA=8-Φ18
			100						DN100, Flow Range: 15m³/h - 150 m³/h, Working Pressure: 0.8MPa, C=180mm, N-ΦA=8-Φ18
			125						DN125, Flow Range: 20m³/h - 200 m³/h, Working Pressure: 0.8MPa, C=210mm, N-ΦA=8-Φ18
			150						DN150, Flow Range: 40m³/h - 400 m³/h, Working Pressure: 0.8MPa, C=240mm, N-ΦA=8-Φ18
		200						DN200, Flow Range: 60m³/h - 600 m³/h, Working Pressure: 0.8MPa, C=295mm, N-ΦA=8-Φ18	
		250						DN250, Flow Range: 100m³/h - 1000 m³/h, Working Pressure: 0.8MPa, C=350mm, N-ΦA=12-Φ22	
Process Connection				1					DIN Standard
				2					American Standard (ANSI)
				3					Japanese Standard (JIS)
Flow Transmitter Function					AT				Instantaneous flow rate, cumulative flow rate
					AF				Instantaneous flow rate, cumulative flow rate, current output
					AC				Instantaneous flow rate, cumulative flow rate, pulse output
					AD				Instantaneous flow rate, cumulative flow rate, RS485
Power Supply						1			Battery-powered (no signal output)
						2			24V DC
Interlock Alarm							1		High limit alarm
							2		Low limit alarm
							3		Batch control
							4		No alarm
Flow Unit							1		L/S
							2		L/min
							3		L/h
							4		m³/S
							5		m³/min
							6		m³/h
							7		G/S
							8		G/min
							9		G/h