

PADDLE TYPE FLOW METER / SWITCH

KF510 SERIES

Flow Measurement
& Monitoring



DESCRIPTION

KF510 series paddlewheel flow meters utilizes a mechanical paddlewheel to measure the full closure of pipelines and continuous flow of volume liquid for speed flow metering. It is suitable for low viscosity liquids for high accuracy of instantaneous and totalizer flow.

TECHNICAL FEATURES

Accuracy	±1% F.S
Repeatability	±0.5%
Temperature	-20 to +65°C
Installation method	Panel mount, compact type (DN10 to DN50)
Power supply options	24V DC / Battery Power
Output signal	4-20 mA / Passive Pulse
Communication	RS485 (optional)
Alarm options	High limit, low limit, totalizer (batch controller)
Protection class	IP65
Power consumption	2W
Flow velocity	0.3 to 6 m/s
Diameter	DN10-DN50 (with PVDF triplet) DN65-500 (insert type)
Wetted material	Sensor: PVDF Paddlewheel: PVDF, PTFE Shaft lever: Ceramic Seal ring: Viton / EPDM
Working temperature	PVDF: -20 to +80°C
Max working pressure	10 Bar (DN10 to DN20) 8 Bar (DN25 to DN250)

FEATURES

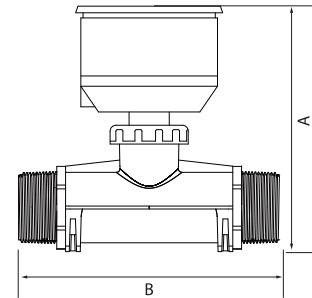
- ✓ High accuracy
- ✓ Easy to operate
- ✓ Install quickly on existing pipe
- ✓ Small power consumption
- ✓ No pressure drop
- ✓ Corrosion resistant PVDF sensor
- ✓ User friendly, easy maintenance



DIMENSION/DRAWING

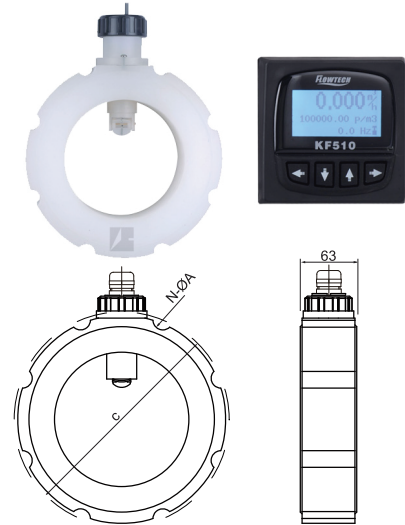
VA Thread Type

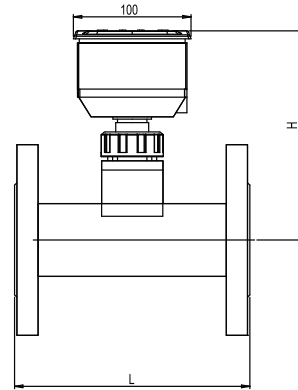
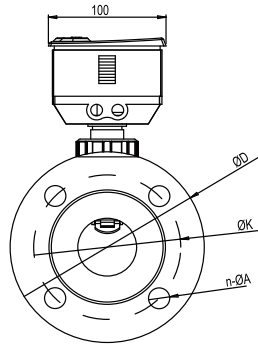
DN (mm)	Measuring Range (m ³ /h)	Thread Size	Pressure (Bar)	Medium Temperature	A (mm)	B (mm)
10	0.1 - 1.8	BSP 3/8"	≤ 10	≤ 80°C	152	121
15	0.2 - 4.0	BSP 1/2"			152	130
20	0.3 - 6.0	BSP 3/4"			158	134
25	0.5 - 12	BSP 1"	≤ 8		158	141
40	2.0 - 24	BSP 1 1/2"			168	175
50	4.0 - 40	BSP 2"			184	175



JA Wafer Type

DN (mm)	Measuring Range (m ³ /h)	C (mm)	n-∅A	Pressure (Bar)	Medium Temperature
32	1.5 - 18	100	4-∅18	≤ 8	≤ 80°C
40	2 - 24	110	4-∅18		
50	4 - 40	125	8-∅18		
65	6 - 60	145	8-∅18		
80	10 - 100	160	8-∅18		
100	15 - 150	180	8-∅18		
125	20 - 200	210	8-∅18		
150	30 - 300	240	8-∅22		
200	50 - 500	295	8-∅22		
250	75 - 1000	350	12-∅22		





FA Flange Type

DN (mm)	Measuring Range (m ³ /h)	Pressure (Bar)	L (mm)	D (mm)	K (mm)	n-ØA	H (mm)
32	1.5 - 18	≤ 8	200	140	100	4-Ø18	187
40	2 - 24		200	150	110	4-Ø18	192
50	4 - 40		200	165	125	8-Ø18	198.5
65	6 - 60		200	185	145	8-Ø18	205
80	10 - 100		200	200	160	8-Ø18	212
100	15 - 150		250	220	180	8-Ø18	222
125	20 - 200		250	250	210	8-Ø18	233
150	30 - 300		300	285	240	8-Ø22	247
200	50 - 500		350	340	295	8-Ø22	267
250	75 - 1000		400	400	350	12-Ø22	287

KP Glue Type (Union)

DN (mm)	Measuring Range (m ³ /h)	Pressure (Bar)	L (mm)	Gule (id)
10	0.1 - 1.8	≤ 8	120	20
15	0.2 - 4.0		130	20
20	0.3 - 6.0		142	20
25	0.5 - 12		142	22
40	2.0 - 24		175	40
50	4.0 - 40		175	63

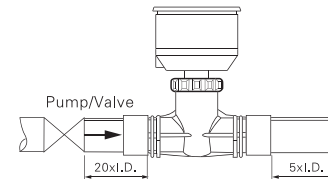
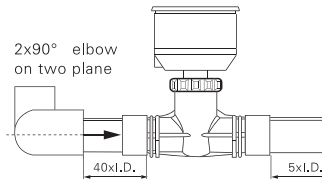
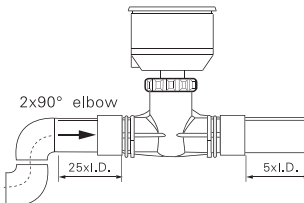
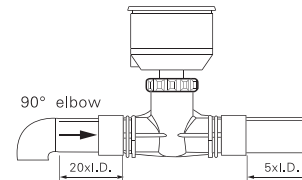
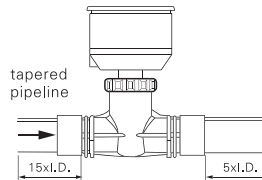
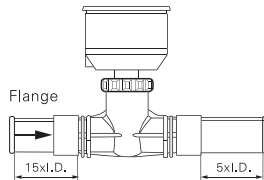


COMPARISON CHART



Model	VA	JA	FA	KP
Size	DN 10 - DN 50	DN 32 - DN 250	DN 32 - DN 250	DN 10 - DN 50
Connection	Threaded	Wafer	Flange	Union
Working Pressure	10 Bar (\leq DN 20) 8 Bar (\geq DN 25)		\leq 8 Bar	
Velocity Range	0.3 to 6.0 m/s			
Accuracy	$\pm 1\%$ FS			
Working Temperature	-20 to +65°C (Converter) ; -20 to +80°C (PVDF Sensor)			
Output Signal	4-20 mA, Passive Pulse			
Communication	RS485 (Optional) ; Batching (Optional)			
Display	Graphic LCD with Backlight			

Min. requirements of straight pipeline while installing



I-SYSTEM MEASUREMENT
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