

SANPO

Leading to a smarter flow

TURBINE FLOWMETER

SF510 SERIES



FEATURES

- High accuracy digital paddlewheel technology
- Rate and total flow display
- Easy to operate with 8 large digital LCD display
- Install quickly on existing pipe
- No pressure drop
- Corrosion resistant PVDF sensor
- Long life lithium battery
- Diversification installation

SPECIFICATIONS

- Accuracy : +1% , +1.5%
- Repeatability : +0.5%
- Temperature : -20C~ +65C
- External Dimension : 100x100mm
- Installation method : Panel mount , compact type (DN10~DN50)
- Power Supply : DC24V , battery supply , AC220V
- Output Signal : 4~20mA , passive pulse
- Communication : RS485
- Protection Class : IP65
- Consumption : 2w

DIMENSION



FLOWMETER SENSOR

- Flow Speed : 0.3~6m/s
- Wetted Material : Sensor:PVDF , Impeller:PVDF , Shaft:ceramics
- Seal Ring : Viton , EPDM
- Working Temperature : PVDF -20~+140C
- Working Pressure : 0.8MPa

MODEL SELECTION

1 Type	2 Sensor Diameter	3 Flow Type Transmitter	4 Power Supply	5 Flow Unit
SF150				
C Compact	Please select between DN10 to DN50	AT Instant delivery flow totalizer	A AC220V	1 L/S
R Remote		AF Instant delivery flow totalizer 4~20 output	B Battery powered	2 L/Min
I Integral with RS485 Output		AC Instant delivery flow totalizer Pulse output	C DC24V	3 L/h
		AD Instant delivery flow totalizer RS485		4 m3/S
				5 m3/min
				6 m3/h

*The specifications are subject to change without further notice





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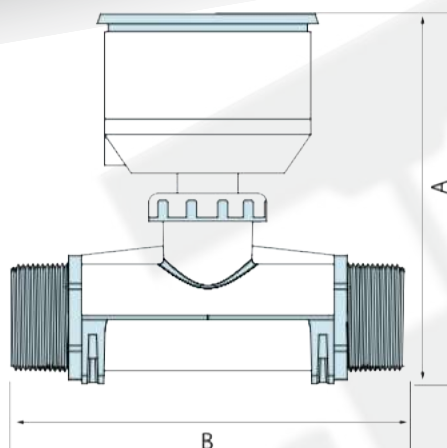
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VA THREAD TYPE



DIMENSION



DN (mm)	Male	MediumTemp	A (mm)	B (mm)
10	BSP 3/8"	<80C	152	121
15	BSP 1/2"		152	130
20	BSP 3/4"		158	134
25	BSP 1"		152	141
40	BSP 1 1/2"		168	175
50	BSP 2"		184	175

MODEL SELECTION

1 Type	2 Sensor Diameter	3 Thread Standard	4 Flow Type Transmitter	5 Power Supply	6 Alarm	7 Flow Unit
SF150-VA						
C Compact R Remote	Please select between DN10 to DN250	B BSP N NPT	AT Instant delivery flow totalizer AF Instant delivery flow totalizer current AC Instant delivery flow totalizer Pulse output AD Instant delivery flow totalizer RS485 AL Include all 4 function	1 Battery 2 DC24V	1 High Limit 2 Low Limit 3 Batch Controller 4 w/o 5 High Low	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

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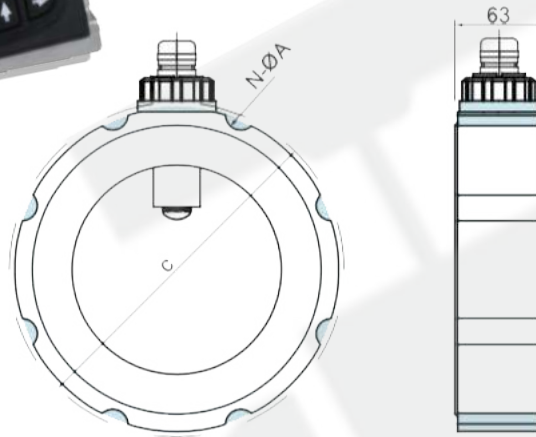
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JA WAFER TYPE



DIMENSION



DN (mm)	C	N-ØA	(MPa)	Temp C
32	100	4 - Ø18	<0.8	<80c
40	110	4 - Ø18		
50	125	8 - Ø18		
65	145	8 - Ø18		
80	160	8 - Ø18		
100	180	8 - Ø18		
125	210	8 - Ø18		
150	240	8 - Ø22		
200	295	8 - Ø22		
250	350	12 - Ø22		

MODEL SELECTION

	1 Type	2 Sensor Diameter	3 Flange Standard	4 Flow Type Transmitter	5 Power Supply	6 Alarm	7 Flow Unit
SF150-JA							
	C Compact R Remote	Please select between DN10 to DN250	1 DIN 2 JIS 10K 3 ANSI#150	AT Instant delivery flow totalizer AF Instant delivery flow totalizer current AC Instant delivery flow totalizer Pulse output AD Instant delivery flow totalizer RS485 AL Include all 4 function	1 Battery 2 DC24V	1 High Limit 2 Low Limit 3 Batch Controller 4 w/o 5 High Low	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

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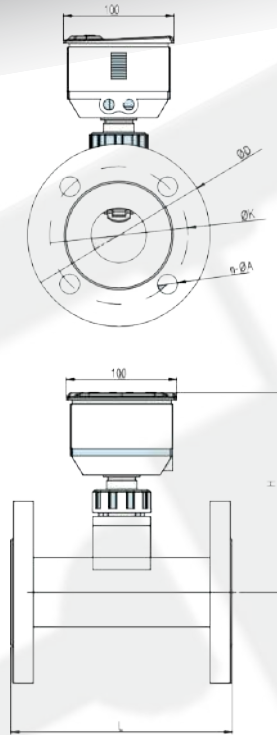
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TURBINE FLOWMETER

SF510 SERIES

FA FLANGE TYPE



EXTERNAL DIMENSION (mm)

DN (mm)	L	D	K	N-OA	H	Mpa
32	200	140	100	4 - O18	187	<0.8
40	200	150	110	4 - O18	192	
50	200	165	125	8 - O18	198.5	
65	200	185	145	8 - O18	205	
80	200	200	160	8 - O18	212	
100	250	220	180	8 - O18	222	
125	250	250	210	8 - O18	233	
150	300	285	240	8 - O22	247	
200	350	340	295	8 - O22	267	
250	400	395	350	12 - O22	287	

MODEL SELECTION

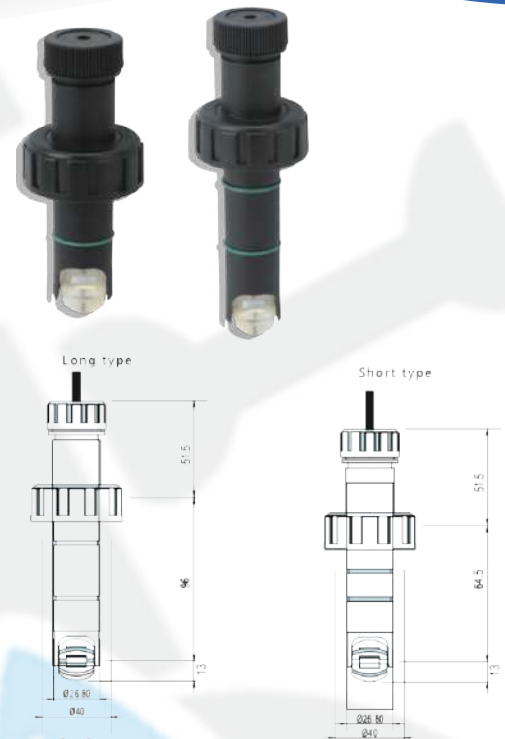
	1 Type	23 Sensor Diameter	Flange Standard	4 Flow Type Transmitter	5 Power Supply	6 Alarm	7 Flow Unit
SF150-FA							
	C Compact	Please select between DN32 to DN250	1 DIN	AT Instant delivery flow totalizer	1 Battery	1 High Limit	1 L/S
	R Remote		2 JIS 10K	AF Instant delivery flow totalizer current	2 DC24V	2 Low Limit	2 L/Min
			3 ANSI#150	AC Instant delivery flow totalizer Pulse output		3 Batch Controller	3 L/h
				AD Instant delivery flow totalizer RS485		4 w/o	4 m3/S
				AL Include all 4 function		5 High Low	5 m3/min
							6 m3/h
							7 G/S
							8 G/min
							9 G/h

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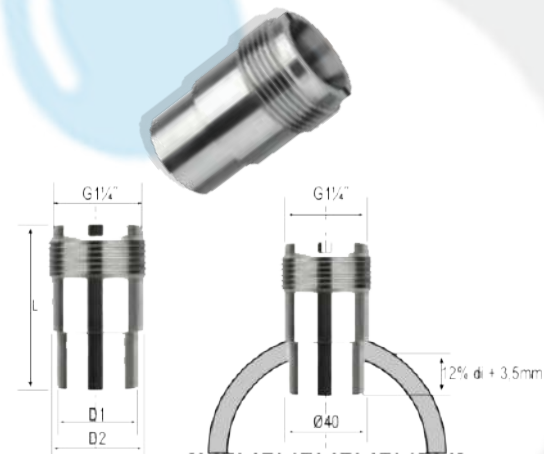
EXTERNAL DIMENSION (mm)

DN	d	L	D1	D2
50	63	68.5	40	50
65	75	68.5	40	50
80	90	68.5	40	50
110	125	100	40	50
125	140	100	40	50
150	160	100	40	50
200	225	100	40	50
250	280	100	40	50
300	315	100	40	50
350	370	100	40	50
400	420	100	40	50
450	470	100	40	50
500	520	100	40	50



MODEL SELECTION

1 Type	2 Sensor Diameter	3 Flange Standard	4 Flow Type Transmitter	5 Power Supply	6 Alarm	7 Flow Unit
C Compact	Please select between DN10 to DN250	1 ASME SCH40	AT Instant delivery flow totalizer	1 Battery	1 High Limit	1 L/S
R Remote		2 JIS SCH40	AF Instant delivery flow totalizer current	2 DC24V	2 Low Limit	2 L/Min
		3 DIN SCH40	AC Instant delivery flow totalizer Pulse output		3 Batch Controller	3 L/h
		4 OTHER	AD Instant delivery flow totalizer RS485		4 w/o	4 m3/S
			AL Include all 4 function		5 High Low	5 m3/min



*PVC PIPE INSTALLATION

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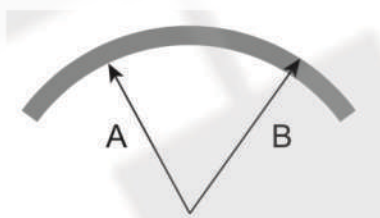


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SS SADDLE TYPE



EXTERNAL DIMENSION (mm)

DN	A	B	(MPa)
50	60.3	90	<0.8
65	73	105	
80	89	120	
100	114	144	
125	140	170	
150	168	180	
200	219	250	
250	273	310	

MODEL SELECTION

	1 Type	23 Sensor Diameter	Flange Standard	4 Flow Type Transmitter	5 Power Supply	67 Alarm	Flow Unit
SF150-SS							
	C Compact	Please select between DN10 to DN250	1 ASME SCH40	AT Instant delivery flow totalizer	1 Battery	1 High Limit	1 L/S
	R Remote		2 JIS SCH40	AF Instant delivery flow totalizer current	2 DC24V	2 Low Limit	2 L/Min
			3 DIN SCH40	AC Instant delivery flow totalizer Pulse output		3 Batch Controller	3 L/h
			4 OTHER	AD Instant delivery flow totalizer RS485		4 w/o	4 m3/S
				AL Include all 4 function		5 High Low	5 m3/min
							6 m3/h
							7 G/S
							8 G/min
							9 G/h

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KP GLUE TYPE



EXTERNAL DIMENSION (mm)

DN	L	GULE id	(MPa)
10	120	20	<0.8
15	130	20	
20	142	20	
25	142	22	
40	175	40	
50	175	63	

MODEL SELECTION

	1 Type	23 Sensor Diameter	3 Flange Standard	4 Flow Type Transmitter	5 Power Supply	67 Alarm	7 Flow Unit
SF150-KP							
	C Compact	Please select between DN10 to DN250	1 DIN	AT Instant delivery flow totalizer	1 Battery	1 High Limit	1 L/S
	R Remote		2 JIS	AF Instant delivery flow totalizer current	2 DC24V	2 Low Limit	2 L/Min
			3 ANSI	AC Instant delivery flow totalizer Pulse output		3 Batch Controller	3 L/h
				AD Instant delivery flow totalizer RS485		4 w/o	4 m3/S
				AL Include all 4 function		5 High Low	5 m3/min
							6 m3/h
							7 G/S
							8 G/min
							9 G/h

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ACCESSORIES MOUNTING PARTS			
	SF510-02 Flange PP Material	Size Range	
		1	DN40
		2	DN50
		3	DN65
		4	DN80
		5	DN100
		6	DN125
		7	DN150
		8	DN200
	SF510-03-P1	1	DN50-DN65
		2	DN80-DN100
	SF510-03-P2	1	DN125-DN200
		2	DN250-DN600
	SF510-03-S Stainless Steel (SS304/SS316L)	1	DN50-DN65
		2	DN80-DN100
	SF510-03-S2 Stainless Steel (SS304/SS316L)	1	DN125-DN200
		2	DN250-DN600
	SF510-04 Saddle Type	1	DN100
		2	DN125
		3	DN150
		4	DN200
		5	DN250
		6	DN300
		7	DN400
REMARK : Special size can be customized upon request			



ACCESSORIES MOUNTING PARTS			
		Size Range	
	SF510-01-P1 PVC Tee Type	1	DN20
		2	DN25
		3	DN32
		4	DN40
	SF510-01-P2 PVC Tee Type	1	DN50
		2	DN65
		3	DN80
		4	DN100
		5	DN125
	SF510-01-P3 with live connector type	1	DN20
		2	DN25
		3	DN32
		4	DN40
	SF510-01-V PVDF 3-Way Type	1	DN15
		2	DN20
		3	DN25
		4	DN32
		5	DN40
	SF510-01-F PTFE Tee Type	1	DN25
		2	DN32
		3	DN40
	SF510-01-S Stainless Steel Tee Type (SS304 , SS316L)	1	DN25
		2	DN32
		3	DN40
		4	DN50
	SF510-01-S2 Stainless Steel Tee Type (SS304 , SS316L)	1	DN25
		2	DN32
		3	DN40
		4	DN50

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