

VNER

VNER CORIOLIS MASS FLOWMETER

KSMF SERIES



JIANGSU VNER ELECTRONIC TECHNOLOGY LTD

WWW.VNER.COM.CN

GENERAL

VNER KSMF Coriolis mass flowmeters are the leading precision flow and density measurement solution offering the most accurate and repeatable mass measurement for liquids or slurries. VNER KSMF meters offer the most accurate measurement available for virtually any process fluid, while exhibiting exceptionally low pressure drop.

FEATURES

- Unchallengeable KSMF performance on liquid mass flow, volume flow, and density measurement
- Unique design delivers unparalleled measurement sensitivity and stability
- Guarantees consistent, reliable performance over the widest flow range
- Designed to minimize process, mounting, and environmental effect



VNER-KSMF-U



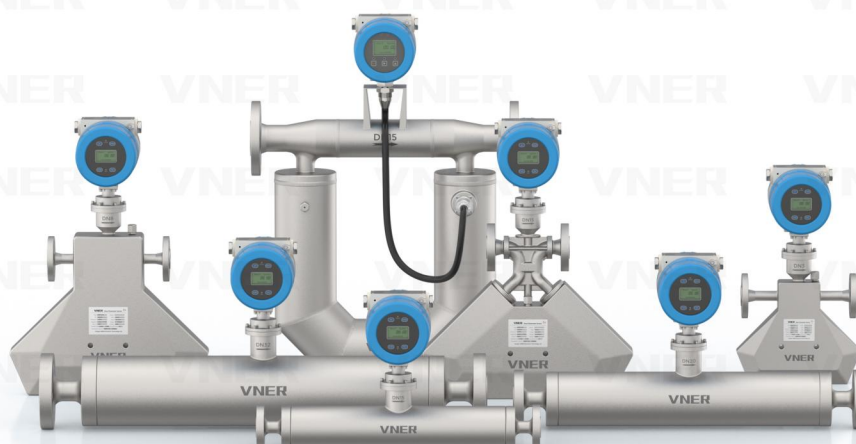
VNER-KSMF-T



VNER-KSMF-S

APPLICATIONS

LOW FLOW PRECISION MEASUREMENT	PRECISION MEASUREMENT & PROCESS CONTROL	HIGH CAPACITY PRECISION MEASUREMENT
Starting at 9.6kg/hr to 120kg/hr Flavoring Vials Chemical injection	Kg/min – tons/hr Truck loading Internal allocation Leak detection Produced fluids with chlorides	Up to 360 tons/hr Custody transfer Ship loading Railcar loading Pipeline measurement Marine bunkering Feedstock and fuel blending



LIQUID FLOW RATES

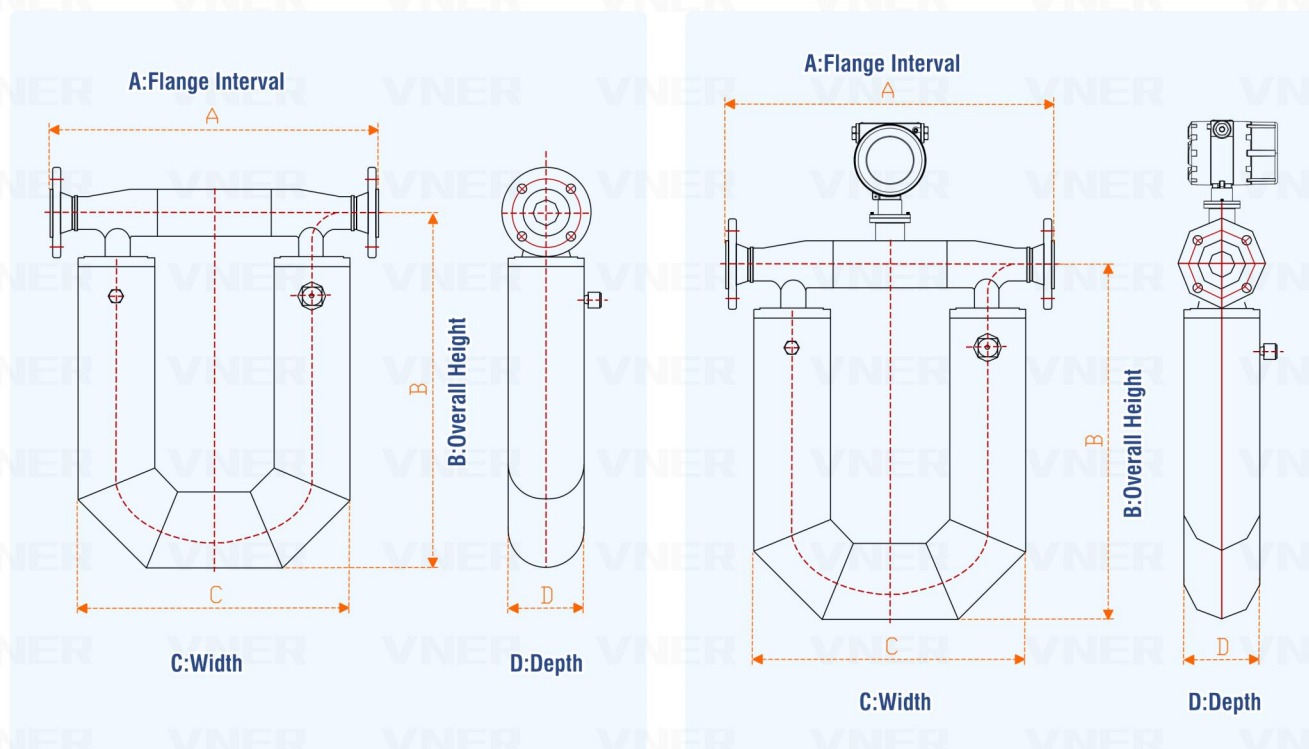
MODEL	NOMINAL SIZE (MM)	FLOW RATE (KG/HR)	STABILITY ZERO, KG/H 0.2%
VNER-KSMF-003	3	9.6~96	0.0144
VNER-KSMF-006	6	54~540	0.081
VNER-KSMF-008	8	96~960	0.144
VNER-KSMF-010	10	150~1500	0.225
VNER-KSMF-015	15	300~3000	0.45
VNER-KSMF-020	20	600~6000	0.9
VNER-KSMF-025	25	960~9600	1.44
VNER-KSMF-032	32	1800~18 000	2.7
VNER-KSMF-040	40	3000~30 000	4.5
VNER-KSMF-050	50	4800~48000	7.2
VNER-KSMF-080	80	12000~120000	18
VNER-KSMF-100	100	19200~ 192000	30
VNER-KSMF-150	150	36000~360000	36

SENSOR SPECIFICATIONS

- Accuracy: $\pm 0.1 \sim 0.5\%$
- Repeatability: $\pm 0.1 \sim 0.25\%$
- Density measurement range: $0.3 \sim 3\text{g/cm}^3$, Accuracy: $\pm 0.002\text{g/cm}^3$
- Operating temperature: $-50 \sim +200^\circ\text{C}$ (standard), $-200 \sim +300^\circ\text{C}$
- Ambient temperature: $-20 \sim +60^\circ\text{C}$ or $-40 \sim +60^\circ\text{C}$
- The measuring tube material: SS316L; The housing material: SS304
- Nominal pressure: 4.0MPa (standard)
- Ex-proof: Ex db ia IIC T6Gb

ITEM	KSMF-LCD	KSMF-DIGITAL LCD
Picture		
Principle	Analog signal processing	Digital signal processing 1.MVD technology; 2.Higher sampling; 3.Digital filtering
Medium temperature	$-200 \sim +300^\circ\text{C}$	$-200 \sim +200^\circ\text{C}$
Ambient temperature	$-30 \sim 60^\circ\text{C}$	$-40 \sim 60^\circ\text{C}$
Display info	Mass flow; Volume flow, Density, Temperature	Mass flow; Volume flow, Density, Temperature
Display mode	LCD	LCD
Power supply	24VDC / 220VAC	22VDC / 245VAC
Output signal	Pulse / 4~20mA	Pulse / 4~20mA
Communication	Modbus / Hart	Modbus / Hart
Ex-proof	Ex db ia IIC T6Gb	Ex db ia IIC T6Gb
Ingress Protection	IP 65	IP 65

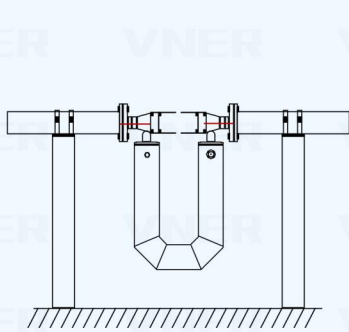
“U” TYPE - REMOTE TYPE KSMF-U-R



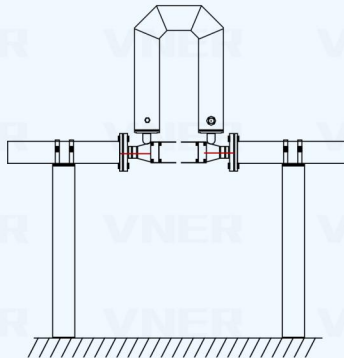
“U” TYPE - REMOTE TYPE KSMF-U-G

MODEL	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	NW (KG)
KSMF-U-010	450	324	380	60	236	7.2
KSMF-U-015	456	324	380	60	236	7.5
KSMF-U-020	540	478	468	108	245	17
KSMF-U-025	540	492	468	108	245	17.5
KSMF-U-032	544	517	468	108	245	24
KSMF-U-040	600	635	500	140	267	32
KSMF-U-050	606	653	500	140	267	36
KSMF-U-080	866	857	779	219	316	87.5
KSMF-U-100	950	977	833	273	340	165
KSMF-U-150	1300	1593	1144	324	370	252

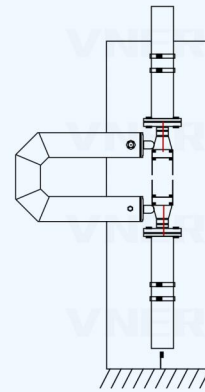
INSTALLATION



The meter should be installed downward when measuring liquid flow, so that air can not get trapped inside the tubes.

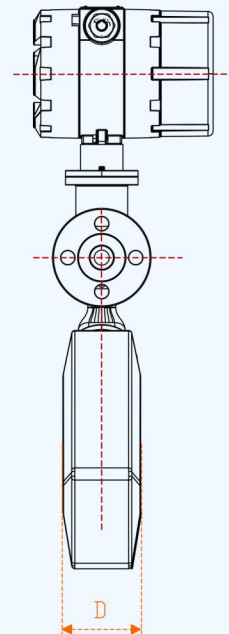
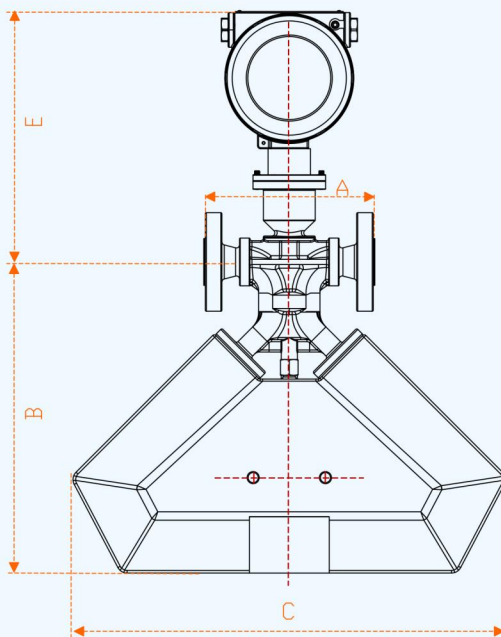


The meter should be installed upward when measuring gas flow, so that liquid cannot get trapped inside the tubes.

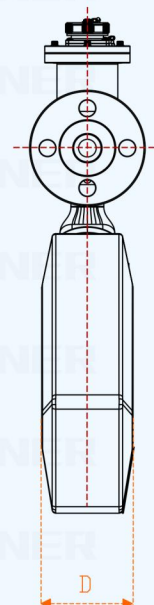
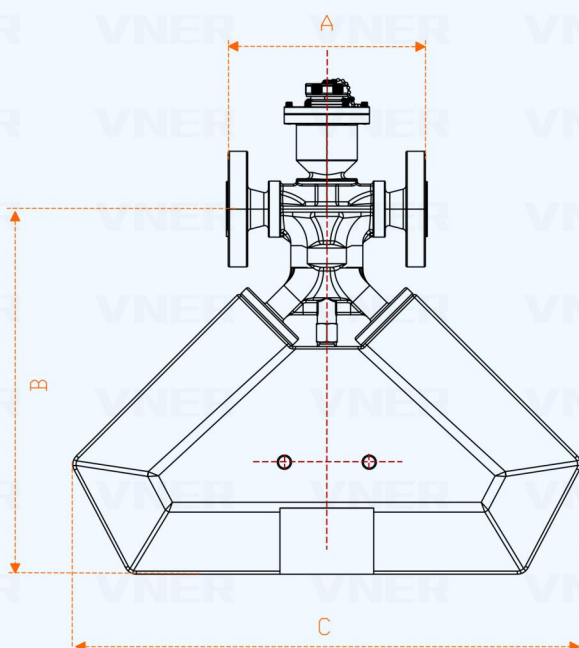


The meter should be installed sideward when the medium is turbid liquid, the flow direction of medium goes from the bottom up through the sensor.

TRIANGLE TYPE KSMF-T



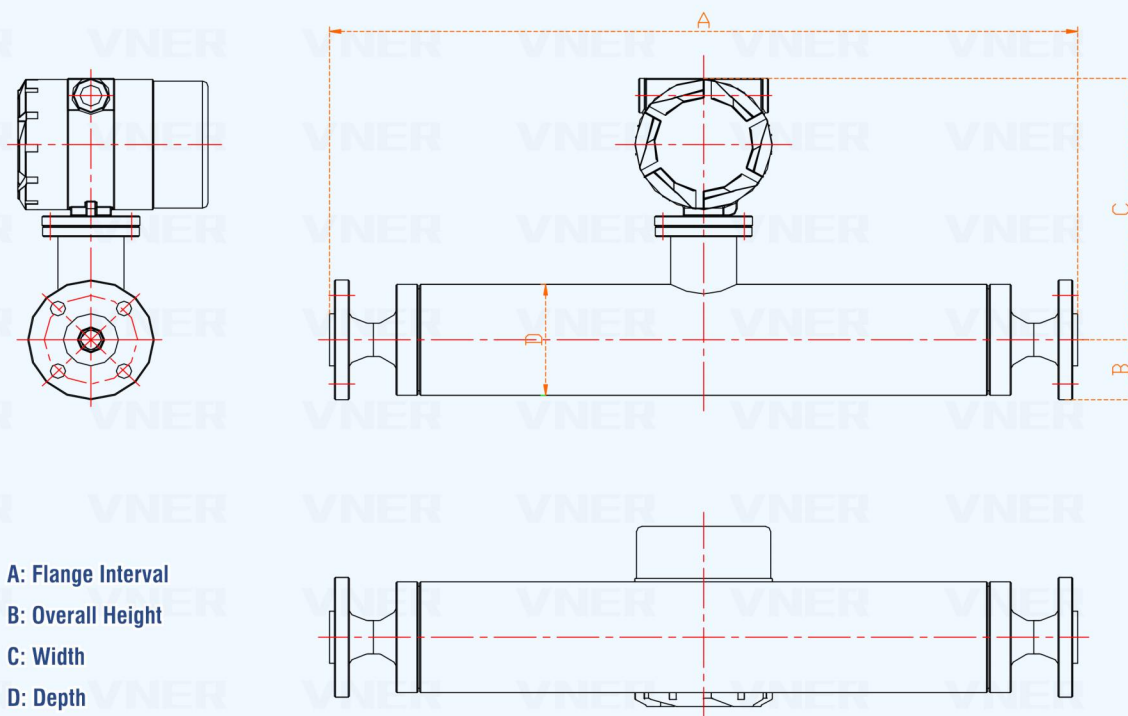
A: Flange Interval
B: Overall Height
C: Width
D: Depth



A: Flange Interval
B: Overall Height
C: Width
D: Depth

SIZE	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	NW (KG)
KSMF-T-003	196	176	250	54	270	4.8
KSMF-T-006	250	263	360	70.5	289	8.1
KSMF-T-008	250	275	395	70.5	289	8.2
KSMF-T-010	160	283	370	70.5	264	6.5
KSMF-T-015	160	302	405	70.5	264	6.5

Note: The size of A will vary depending on the process connection type.

SANITARY TYPE KSMF-S


SIZE	A (MM)	B (MM)	C (MM)	D (MM)	NW (KG)
KSMF-S-008	487	44	235.5	82	10
KSMF-S-010	537	49.5	236	87	12.5
KSMF-S-015	617	52.5	238	87	15
KSMF-S-020	680	57.5	251	106.5	17
KSMF-S-025	746	70	257	117	23.5
KSMF-S-032	867	70	264	137	21
KSMF-S-040	952	75	200.5	157	28
KSMF-S-050	1042	81.5	279	157	30
KSMF-S-080	1185	115	311.5	219	66

SELECTION CODE

PRODUCT DESCRIPTION	CODE	1	2	3	4	5	6	7	8	9	10
Flowmeter	VNER - KSMF										
Shape											
DN20-DN300	U: U-Shape										
DN3-DN15	T: Triangle										
DN8-DN150	S: Sanitary										
Diameter											
DN3		3									
DN6		6									
DN8		8									
DN10		10									
DN15		15									
DN20		20									
DN25		25									
DN32		32									
DN40		40									
DN50		50									
DN80		80									
DN100		100									
DN150		150									
Structure											
Integral type			C								
Remote type			R								
Medium temperature											
-50...+200°C				N							
-50...+300°C				H							
-200...+200°C				L							
Rated pressure											
1.6MPa					1						
2.0MPa					2						
4.0MPa					4						
Customized					Z						
Power supply											
DC24V						D					
AC220V						A					
22-245V						Z					
Output signal											
Pulse/4-20mA/RS485							R				
Pulse/4-20mA/HART							H				
Cable entry											
M20x1.5								M			
1/2"NPT								N			
Customized								Z			

SELECTION CODE

PRODUCT DESCRIPTION	CODE	1	2	3	4	5	6	7	8	9	10
Accuracy											
0.10%									1		
0.15%									2		
0.20%									3		
0.50%									4		
Connection											
Flange										F	
Thread										T	
Tri-clamp										C	
Pipe fittings										P	
Customized										Z	
Explosion											
Ex db ia IIC T6Gb											E
Safe environment											N

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JIANGSU VNER ELECTRONIC TECHNOLOGY LTD

We adapt to local regulations, we strive to deliver quality solutions and we are constantly trying to reduce our environmental impact.

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