

Mechanical Oval Gear Flow Meter



(VGEAR 13000 SERIES)

WORKING PRINCIPLE

Oval gear meters consist of two toothed precision wheels that are oval shaped. As fluid passes through the meter, the oval wheels rotate proportionately—the number of rotations is equal to the volume measurement.



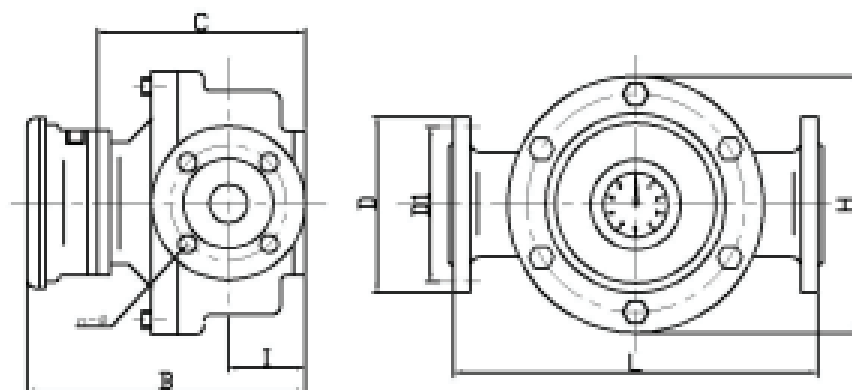
TECHNICAL SPECIFICATIONS

Size	10 – 200 mm	Type	Basic Pointer, pointer reset, High temp Point reset, SS HTSteam jacket, Digital display
Accuracy	± 0.2% , ± 0.5%	Output	3 wire pulse clock, 3 wire pulse anticlock, 4 to 20MA + RS485
End Connection	Threaded, Flange	Body material	Iron casting Aluminum, cast steel, SS 304, SS 316
Gear Material	Aluminum iron casting, SS	Viscosity	0.6 to 200 mpa.s
			200 to 2000 mpa.s
Strainer	Y Type, Bucket (1" – 3")	Temperature	-40 to 120 deg C

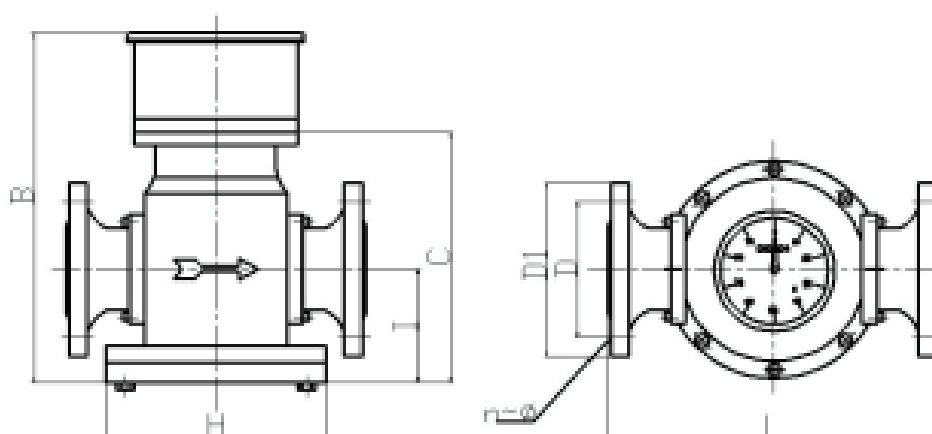
FLOW RATE CHART

Model No.	Size DN (mm)	CI Flow Rate (m3/hr.)		SS Flow Rate (m3/hr.)	
		0.5%	0.2%	0.5%	0.2%
VSAN-MOFM-10	10	0.08 – 0.4	0.1 – 0.4	0.1 – 0.5	0.1 – 0.5
VSAN-MOFM-15	15	0.25 – 1.5	0.3 – 1.5	0.3 – 1.5	0.3 – 1.5
VSAN-MOFM-20	20	0.5 – 3	0.6 – 3	0.6 – 3	0.6 – 3
VSAN-MOFM-25	25	1 – 6	1.2 – 6	1.2 – 6	1.2 – 6
VSAN-MOFM-40	40	2.5 – 15	3 – 15	3 – 15	3 – 15
VSAN-MOFM-50	50	4 – 24	4.8 – 24	4.8 – 24	4.8 – 24
VSAN-MOFM-80	80	10 – 60	12 – 60	12 – 60	12 – 60
VSAN-MOFM-100	100	16 – 100	20 – 100	20 – 100	20 – 100
VSAN-MOFM-150	150	32 – 190	38 – 190	38 – 190	38 – 190
VSAN-MOFM-200	200	34 – 340	68 – 340	68 – 340	68 – 340

GA Drawing



DN10~DN50 (light type)



DN65/DN80 (light type)

Model No.	Size DN (mm)	B (mm)	D (mm)	D1 (mm)	H (mm)	L (mm)	nxøh
VSAN-MOFM-10	10	210	90	60	100	150	4 x ø 14
VSAN-MOFM-15	15	226	95	65	118	170	4 x ø 14
VSAN-MOFM-20	20	238	105	75	150	200	4 x ø 14
VSAN-MOFM-25	25	246	115	85	180	260	4 x ø 14
VSAN-MOFM-40	40	271	145	110	180	245	4 x ø 18
VSAN-MOFM-50	50	310	160	125	218	290	4 x ø 18
VSAN-MOFM-80	80	320	195	160	245	325	8 x ø 18
VSAN-MOFM-100	100	458	215	180	418	515	8 x ø 18
VSAN-MOFM-150	150	557	280	240	515	540	8 x ø 23
VSAN-MOFM-200	200	624	335	295	650	650	12 x ø 23

MODEL CODE DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13
VSAN	MOFM	10	A	A	A	A	B	A	B	A	A	C

1	BRAND NAME					
2	MECHANICAL OVAL GEAR FLOW METER					
3	SIZE					
4	TYPE					
	BASIC POINTER	A	SS HIGH TEMP STEAM JACKET		D	
	POINTER RESET	B	DIGITAL DISPLAY LCD		E	
	HIGH TEMP POINT RESET	C	PULSE OUTPUT ONLY		F	
5	BODY MATERIAL					
	IRON CASTING – ALU (MAX 1.6 MPA)	A	SS 304 (1.6 – 3 MPA)		D	
	CAST STEEL (1.6 – 3 MPA)	B	SS 316 (1.6 – 3 MPA)		E	
6	GEAR MATERIAL					
	ALUMINUM IRON CASTING		A		STAINLESS STEEL B	
7	VISCOISITY					
	0.6 – 200 <u>mpa.s</u>		A		200 – 2000 <u>mpa.s</u> B	
8	ACCURACY					
	0.20%		A		0.50% B	
9	END CONNECTION					
	THREAD (ALUMINUM BODY)		A		FLANGE ANSI 150# B	
10	OUTPUT SENSOR (INPUT 24VDC)					
	3 WIRE PULSE CLOCK	A	3 WIRE PULSE ANTICLOCK	B	2 W – 4 -20MA + RS485	C
11	TEMPERATURE					
	(-40) to (80 °)		A		0 – 150 ° B	HIGH TEMP C
12	REMOTE DISPLAY FOR PULSE OUTPUT					
	FTC 505		A		NOT REQUIRED B	
13	STRAINER					
	Y TYPE SCREW	A	BUCKET 1 – 3” (F)		B	NIL C



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