

Oval Gear Flow Meter

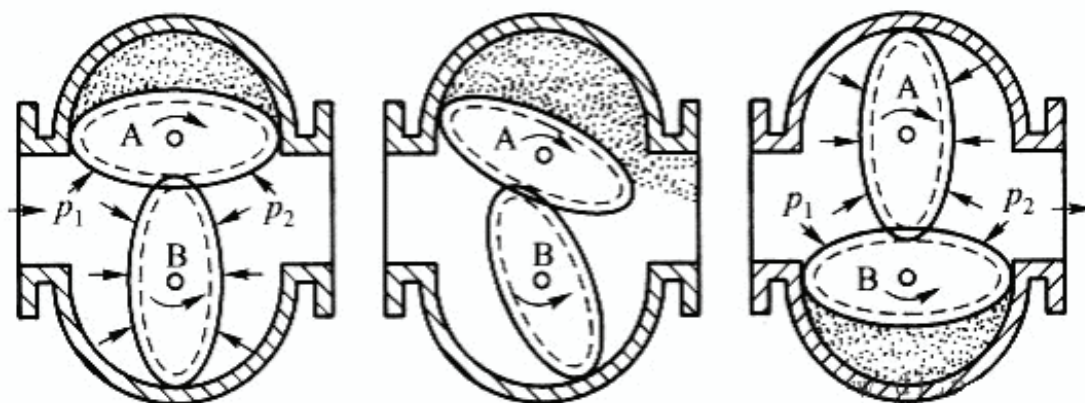


(VGEARR 14000 SERIES)

Threaded - Integral with Display, Remote Sep. Display
Flange - Integral with Display, Remote Sep. Display

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.



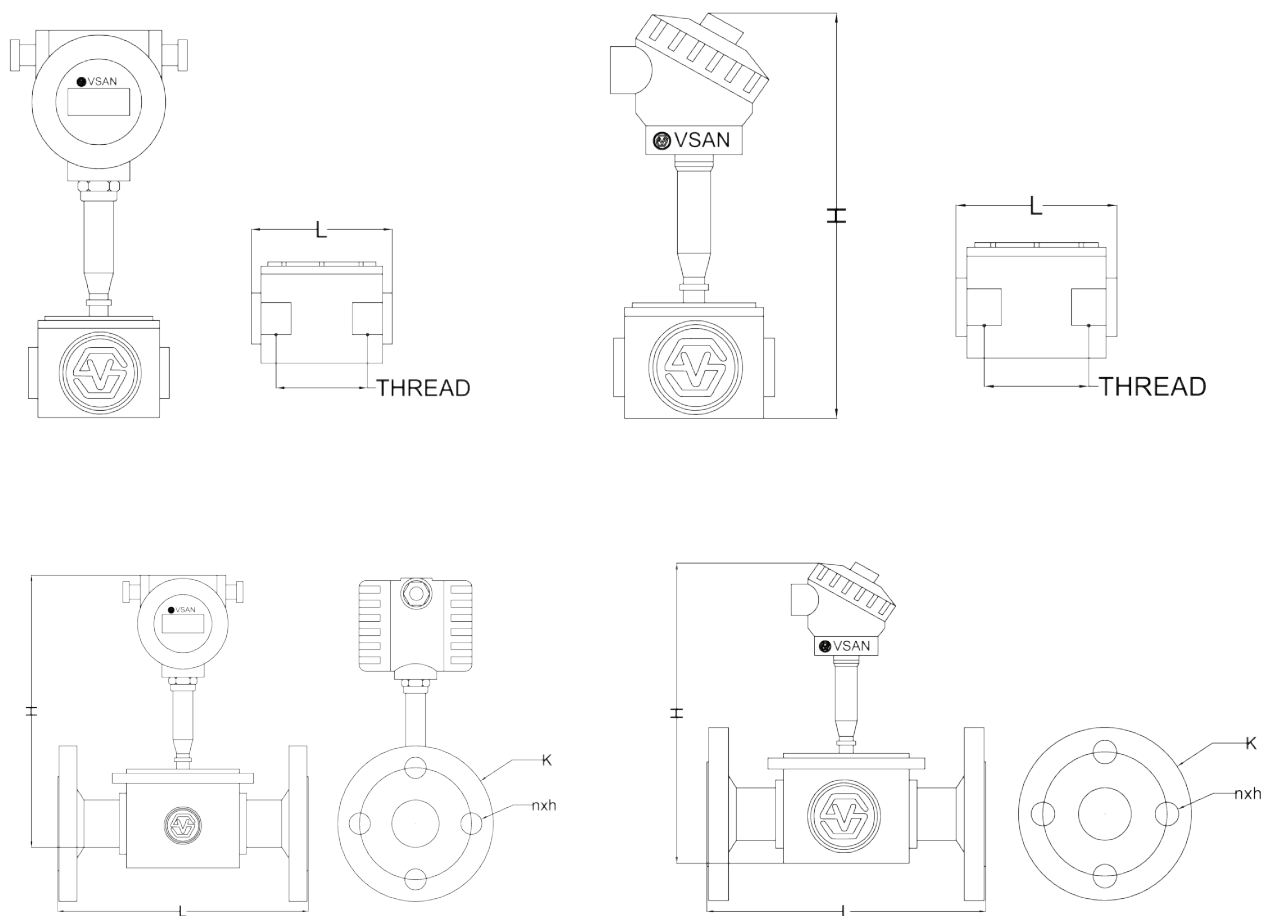
TECHNICAL SPECIFICATIONS

Size	1/4" – 1" (Screw End)	Power Supply	24 VDC, 230 VAC, Battery
	1.5" – 3" (Flange End)	Output	Pulse NPN, Pulse PNP
Accuracy	± 0.5%	Convertor O/p	4-20MA, RS 485 , HART
End Connection	Threaded, Flange	Mounting	Integral, Remote panel mount, FLP (remote only)
Enclosure	Aluminum / Stainless Steel	Pressure	1.6 MPA, Others
Strainer	Y Type, Bucket (1" – 3")	Temperature	-40 to 150 deg C

FLOW RATE CHART

Model No.	Line size	End Thread (Inch)	Flange End	Flow Rate (L/H) SCREW END	Flow Rate (L/H) FLANGE END
VSAN-DOFM-03	4	1/4"	-	0.05 – 30	-
VSAN-DOFM-04	4	1/4"	-	0.2 – 60	-
VSAN-DOFM-06	6	1/4"	-	5 – 150	-
VSAN-DOFM-08	8	3/8"	-	20 - 300	-
VSAN-DOFM-12	12	1/2"	-	50 – 1200	-
VSAN-DOFM-20	20	3/4"	-	150 – 2000	-
VSAN-DOFM-25	25	1"	-	200 – 4000	-
VSAN-DOFM-40	40	-	150# ANSI	-	500 - 10000
VSAN-DOFM-50	50	-	150# ANSI	-	600 - 20000
VSAN-DOFM-80	80	-	150# ANSI	-	1000 - 50000

DIMENSION DRAWING



Model No	Line Size	H 1	L1 (FLANGE)	L1 THREAD	Thread	H 2	H 3
VSAN-DOFM-04	4	45	-	60	1 / 4 "	210	210
VSAN-DOFM-06	6	45	-	60	1 / 4 "	210	210
VSAN-DOFM-08	8	50	-	68	3 / 8 "	215	215
VSAN-DOFM-12	12	50	-	78	1 / 2 "	215	215
VSAN-DOFM-20	20	59	-	82	3 / 4 "	224	224
VSAN-DOFM-25	25	68	-	94	1"	233	233
VSAN-DOFM-40	40	98	291	198	-	263	263
VSAN-DOFM-50	50	130	420	198	-	295	295
VSAN-DOFM-80	80	140	425	210	-	305	305

MODEL CODE DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14
VSAN	MFT	06	A	A	A	A	B	A	B	A	A	A	C

1	BRAND NAME						
2	DIGITAL OVAL FLOW METER						
3	SIZE						
4	ENCLOSURE						
	ALUMINUM ANODIZE	A	SS THREAD & FLANGE		B		
5	ROTOR GEAR						
	ALUMINUM ANODIZE	A	SS		B		
6	O RING						
	NBR	A	VITON	B	SILICON	C	
7	END CONNECTION						
	THREAD (BSPF 1/4"-1")	A	Flange ANSI #150 (1.5"-3")		B		
8	MOUNTING						
	INTEGRAL	A	REMOTE WITH PANEL	C	FLP REMOTE ONLY	E	
	REMOTE PANEL MOUNT (FTC 505)	B	ONLY SENSORS	D			
9	OUTPUT SENSOR (24 VDC INPUT)						
	NPN OPEN COLLECT	A		PNP OPEN COLLECT		B	
10	POWER SUPPLY FOR CONVERTOR						
	24 VDC	A	230 VAC	B	BATTERY	C	
11	CONVERTOR OUTPUT						
	4-20mA + RS 485	A	4-20mA + RS 485 + HART	B	NA	C	
12	PRESSURE						
	1.6 MPA	A	SPECIAL		B		
13	TEMPERATURE						
	(-40) to (80 °)	A	0 – 120 °	B	HIGH TEMP	C	
14	STRAINER						
	Y TYPE SCREW	A	BUCKET 1 – 3" (F)	B	NIL	C	



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