

Turbine Flow Meter

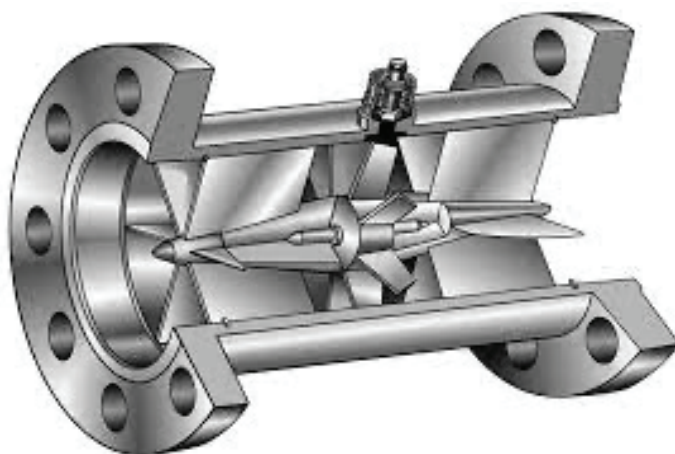


(VBINE 7000 SERIES)

Threaded - Integral, Remote | Flange - Integral, Remote

WORKING PRINCIPLE

Turbine flow meters for use with liquids have a relatively simple theory of operation, as a fluid flows through the tube of the flow meter it impacts upon turbine blades. The turbine blades on the rotor are angled to transform energy from the flowing liquid into rotational energy.



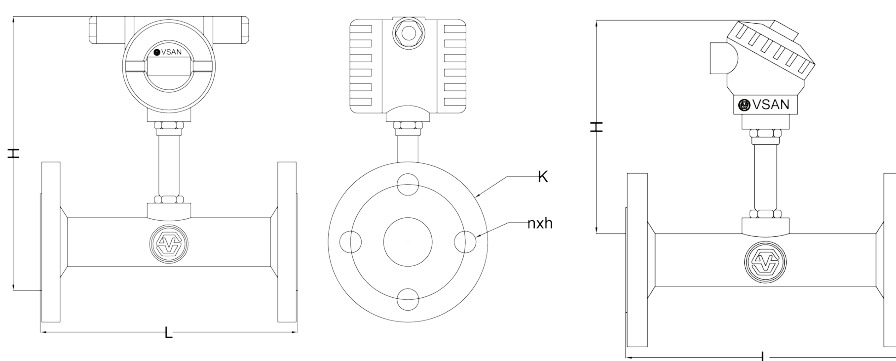
TECHNICAL SPECIFICATIONS

Size	4 – 40 mm (Screw End)	Power Supply	24 VDC, 230 VAC, Battery
	12 – 200 mm (Flange End)	Output	Pulse NPN, Pulse PNP
Accuracy	± 0.5%	Convertor O/p	4-20MA, RS 485 , HART
End	Threaded, Flange	Mounting	Integral, Remote panel mount,
Connection			FLP (remote only)
Enclosure	SS 304 , SS 316	Pressure	1.6 MPA, Others
Strainer	Y Type, Bucket (1" – 3")	Temperature	-40 to 150 deg C

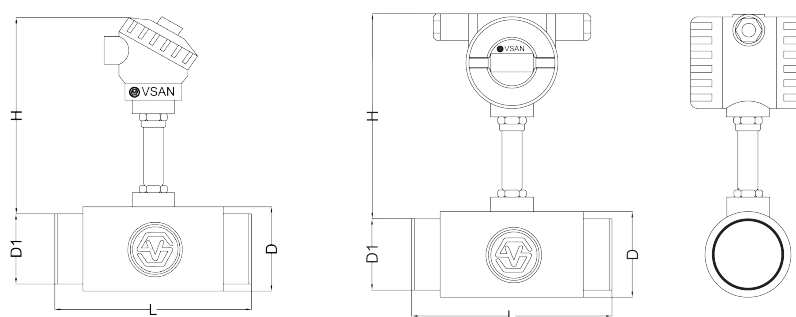
FLOW RATE CHART

Model No.	DN (mm)	End Thread (Inch)	Flange End	Flow Rate (L/H) SCREW END	Flow Rate (L/H) FLANGE END
VSAN-DTFM-04	4	1/2 "	-	40 - 400	-
VSAN-DTFM-12	12	1"	-	600 - 6000	600 - 6000
VSAN-DTFM-20	20	1"	-	800 – 8000	800 – 8000
VSAN-DTFM-25	25	1 1/4"	-	1000 – 10000	1000 – 10000
VSAN-DTFM-32	32	1 1/4"	-	1500 - 15000	1500 – 15000
VSAN-DTFM-40	40	2"	150# ANSI	2000 - 20000	2000 – 20000
VSAN-DTFM-50	50		150# ANSI	-	4000 - 40000
VSAN-DTFM-80	80		150# ANSI	-	10000 - 100000
VSAN-DTFM-100	100		150# ANSI	-	20000 - 200000
VSAN-DTFM-150	150		150# ANSI	-	30000 - 300000
VSAN-DTFM-200	200		150# ANSI	-	80000 - 800000

GA Drawing



Model	L	D	D1	n x ød	H1	H2
VSAN-DTFM-12	75	88.9	60.45	4 x ø15.7	165	190
VSAN-DTFM-20	91	98.6	69.85	4 x ø15.7	165	190
VSAN-DTFM-25	106	108	79.25	4 x ø15.7	165	190
VSAN-DTFM-32	140	117.3	88.9	4 x ø15.7	165	190
VSAN-DTFM-40	140	127	98.6	4 x ø19.1	165	190
VSAN-DTFM-50	148	152.4	120.7	4 x ø19.1	165	190
VSAN-DTFM-80	200	190.5	152.4	4 x ø19.1	165	190
VSAN-DTFM-100	220	228.6	190.5	8 x ø19.1	165	190
VSAN-DTFM-150	250	279.4	241.3	8 x ø22.4	165	190
VSAN-DTFM-200	350	342.9	298.5	8 x ø22.4	165	190



Model	Size (D2) mm	L	D	H1	H2
VSAN-DTFM-04	4	225	1/2 "	165	190
VSAN-DTFM-12	15	75	1"	165	190
VSAN-DTFM-20	20	85	1"	165	190
VSAN-DTFM-25	25	100	1 1/4"	165	190
VSAN-DTFM-32	32	120	1 1/4"	165	190
VSAN-DTFM-40	40	140	2"	165	190

MODEL CODE DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12
VSAN	DTFM	012	A	A	B	A	B	A	A	A	C

1	BRAND NAME										
2	DIGITAL TURBINE FLOW METER										
3	SIZE										
4	ENCLOSURE										
	SS 304	A		SS 316			B				
5	PROCESS CONNECTION										
	THREAD(4-40 mm)	A		ANSI 600 #			D				
	ANSI 150 #	B		TRI CLAMP			E				
	ANSI 300 #	C		WAFER			F				
6	MOUNTING										
	INTEGRAL	A		REMOTE WITH PANEL		C		FLP REMOTE ONLY		E	
	REMOTE PANEL MOUNT (FTC 505)	B		ONLY SENSORS		D					
7	OUTPUT SENSOR (24 VDC INPUT)										
	NPN OPEN COLLECT		A			PNP OPEN COLLECT			B		
8	POWER SUPPLY FOR CONVERTOR										
	24 VDC	A		230 VAC		B		BATTERY		C	
9	CONVERTOR OUTPUT										
	4-20mA + RS 485	A		4-20mA + RS 485 + HART		B		NA		C	
10	PRESSURE										
	1.6 MPA	A		SPECIAL			B				
11	TEMPERATURE										
	(-40) to (80 °)	A		0 – 150 °		B		HIGH TEMP		C	
12	STRAINER										
	Y TYPE SCREW	A		BUCKET 1 – 3” (F)		B		NIL		C	



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