

A low-angle, upward-looking photograph of an industrial facility, likely a refinery or chemical plant. The image is dominated by large, white, cylindrical pipes that run diagonally across the frame. In the background, there is a complex network of smaller pipes, valves, and structural steel. The sky is overcast and grey. The overall color palette is muted, with a strong blue tint in the lower half of the image.

TWM Wafer Turbine Flowmeters

BanksiaControls 

BanksiaControls TWM wafer turbine flowmeters

The Wafer Style Turbine Flowmeters are designed for installation between two flanges. This unique design results in simplified installation. The TWM Series meters are robust design and available upto 2500# rating.

Wafer Turbine flowmeters measure flows of low viscosity liquids from 0.11 to 270 m³/hr in a range of sizes from 1" to 4" (25-100mm). TWM wafer turbine series flowmeters have an axial rotor and flow guides & must be installed in straight sections of pipe horizontal so the flow is conditioned. TWM series flowmeters can be purchased with Exd & Intrinsically Safe (I.S) approvals for use in hazardous areas. Applications include the distribution of fuels, alcohols, solvents, metering of chemicals, insecticides, water & light hydraulic oils.

Features / Benefits

- Compact design
- Easy installation between ranges

- High accuracy & repeatability, direct reading flowmeter
- Low cost of ownership, wide flow range
- Rugged & compact design
- Certified Exd & I.S hazardous area versions
- Integral 4-20mA output option

Integral instruments

BanksiaControls TWM series meter options include integral LCD totalisers, flow rate totalisers & batch controllers. These instruments provide monitoring & control outputs including 4~20mA, scaled pulse, alarms & batch control :

- F112/F018 LCD 6 digit reset, cumulative totaliser & flow rate. Analogue and Pulse Outputs
- E112/E018 LCD 6 digit reset, cumulative totaliser & flow rate.
- Backlit display.

(Instruments also available for remote mounting and with I.S. approvals & exd.)



FLOW RANGES - TWM Wafer Turbine

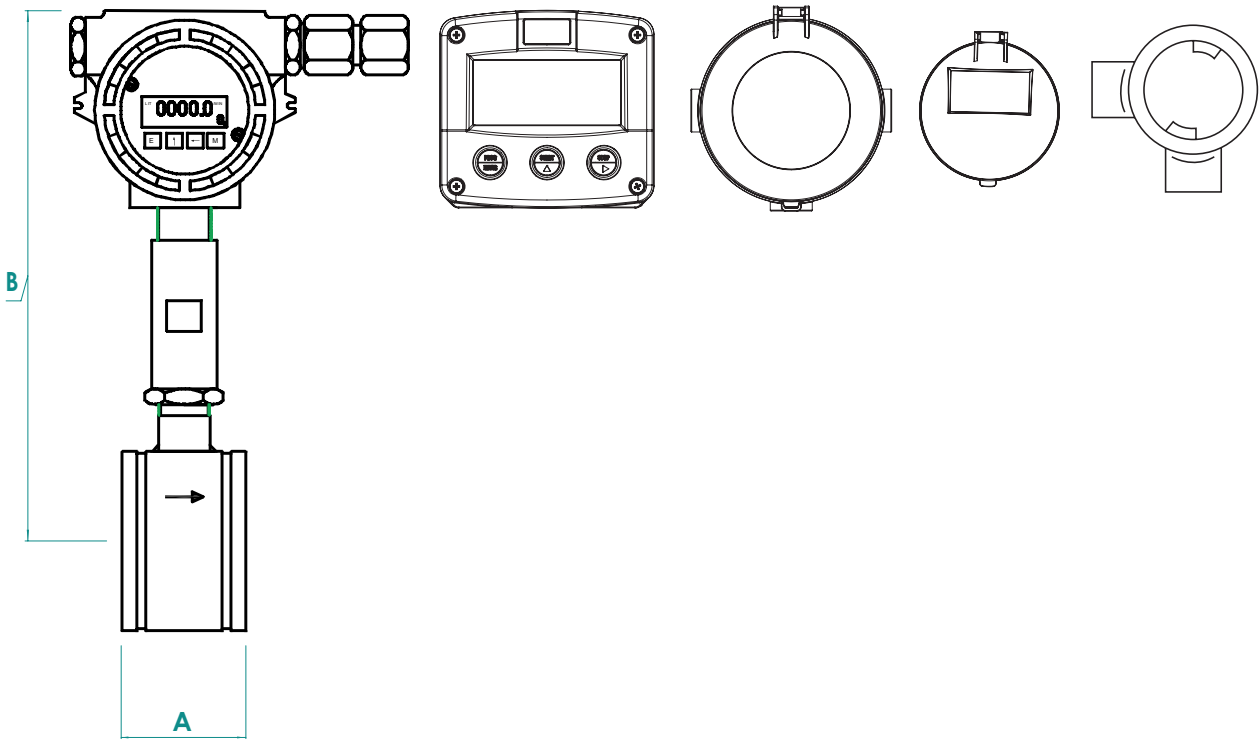
Model	Flow Range					
	M ³ /Hr		BBD		USGPM	
	Min.	Max.	Min.	Max.	Min.	Max.
TWM-25/10	0.11	1.1	16.6	166	0.485	4.85
TWM-25/12	0.22	2.2	33.2	332	0.968	9.68
TWM-25/15	0.4	4	60.3	603	1.76	17.6
TWM-25/20	0.8	8	120.7	1207	3.522	35.22
TWM-25/25	1.6	16	241.5	2415	7.044	70.44
TWM-50/10	0.11	1.1	16.6	166	0.485	4.85
TWM-50/12	0.22	2.2	33.2	332	0.968	9.68
TWM-50/15	0.4	4	60.3	603	1.76	17.6
TWM-50/20	0.8	8	120.7	1207	3.522	35.22
TWM-50/25	1.6	16	241.5	2415	7.044	70.44
TWM-50/40	3.4	34	513.2	5132	15	150
TWM-50/50	6.8	68	1026	10264	30	300
TWM-50/50S	8.6	86	1300	13000	40	400
TWM-80/80	13.4	134	2023	20228	59.8	598
TWM-100/100	27	270	4076	40757	118.8	1188

Note: Alternative flow ranges can be supplied.

Specifications

Model prefix:	TWM-Wafer Turbine
Nominal size (inches)	25~100mm (1" ~ 4")
**Accuracy @ 3cp	Std. Linearity of +/-1.0% over flow range. Premium Linearity of +/-0.5% over flow range available. Repeatability of +/-0.1%
Temperature range	-40°C ~ +120°C (-40°F ~ +272°F), refer factory for extended temp range
Maximum Viscosity	10Cst
Maximum pressure	Up to 2500# flange rating.
Electrical	
Standard output	Pick-off coil
Optional outputs	4~20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control with integral electronics
Physical	
Protection class	IP66/67 (NEMA4X), optional Exd IIB T4/T6, integral ancillaries can be supplied I.S. (intrinsically safe), Exd
Overall dimensions	Refer over page

Overall Dimensions:



End Connections and Dimensions

Model	End. Conn.	A, mm	
	Wafer	RF	RTJ
	Flanged		
TWM-25/10	1"/DN25	102	N.A
TWM-25/12			
TWM-25/15			
TWM-25/20			
TWM-25/25			
TWM-50/10	2"/DN50	64	89
TWM-50/12			
TWM-50/15			
TWM-50/20			
TWM-50/25			
TWM-50/40			
TWM-50/50			
TWM-50/50S			
TWM-80/80	3"/DN80	108	127
TWM-100/100	4"/DN100	127	146

All dimensions in mm (±2mm)

OPTIONS	DIM B - 2-3"	DIM B - 4"
E-Series	310	410
F-Series	310	410
RT-Series	300	400
Junction Box	240	340

Model Coding - BanksiaControls TWM series Meters

TWM	Banksia Controls Turbine Flowmeter, TFM Series						
	Model	Flow Range					
		M3/Hr		BBD		USGPM	
		Min	Max	Min	Max	Min	Max
	TWM25/10	0.11	1.1	16.6	166	0.485	4.85
	TWM25/12	0.22	2.2	33.2	332	0.968	9.68
	TWM25/15	0.4	4	60.3	603	1.76	17.6
	TWM25/20	0.8	8	120.7	1207	3.522	35.22
	TWM25/25	1.6	16	241.5	2415	7.044	70.44
	TWM50/10	0.11	1.1	16.6	166	0.485	4.85
	TWM50/12	0.22	2.2	33.2	332	0.968	9.68
	TWM50/15	0.4	4	60.3	603	1.76	17.6
	TWM50/20	0.8	8	120.7	1207	3.522	35.22
	TWM50/25	1.6	16	241.5	2415	7.044	70.44
	TWM50/40	3.4	34	513.2	5132	15	150
	TWM50/50	6.8	68	1026	10264	30	300
	TWM50/50S	8.6	86	1300	13000	40	400
	TWM80/80	13.4	134	2023	20228	59.8	598
	TWM100/80S	27	270	2023	20228	59.8	598
	TWM100/100	27	270	4076	40757	118.8	1188
	Linearity						
	L1	Standard Linearity +/- 1.0%					
	L2	Premium Linearity +/- 0.5%					
	L9	Special Linearity					
	End Connections Flanged						
	EWA1	Installation between Flanges, ANSI 150#					
	EWA2	Installation between Flanges, ANSI 300#					
	EWA3	Installation between Flanges, ANSI 600#					
	EWA4	Installation between Flanges, ANSI 900#					
	EWA5	Installation between Flanges, ANSI 1500#					
	EWA6	Installation between Flanges, ANSI 2500#					
	EWD1	Installation between Flanges, DIN PN 10					
	EWD2	Installation between Flanges, DIN PN 16					
	EWD3	Installation between Flanges, DIN PN 25					
	EWD4	Installation between Flanges, DIN PN 40					
	EWD5	Installation between Flanges, DIN PN 63					
	EWD6	Installation between Flanges, DIN PN 100					
	EWD7	Installation between Flanges, DIN PN 160					
	Flange Facing						
	R	Flange Facing - RF					
	J	Flange Facing - RTJ					
	Material of Construction						
	M2	SS 316 Body					
	M9	Special Body Material					
	Pick-off Sensor						
	P1X	Standard pick-off (Max.Temp. + 120C)					
	P2X	Hi Temp Pick-off (+240C)					
	P3X	ATEX approved IS Pick-off					
	P4X	Pick-off with integral Amp (PA1001A)					
	PX1	Military Style Connector					
	PX2	Flying Leads					
	Integral Options						
	LJB00	IP65 Junction Box					
	LJB02	ATEX Approved Junction Box					
	B2	Totaliser					
	B3	IS Totaliser					
	R5	RT14 Flow Rate Totaliser with all outputs (GRN Housing)					
	R3	Intrinsically safe RT12 (I.s) (GRN Housing)					
	F1	Rate Totaliser, GRP, IP67					
	F2	IS Rate Totaliser, GRP, IP67					
	F10	Rate Totaliser, Aluminium, IP67					
	F11	IS Rate Totaliser, Aluminium, IP67					
	F12	Rate Totaliser, SS, IP67					
	F13	IS Rate Totaliser, SS, IP67					
	F18	IS Rate Totaliser, Aluminium, IP67, HART					
	F19	IS Rate Totaliser, SS, IP67, HART					
	E10	Exd Rate Totaliser, Aluminium					
	E11	Exd Rate Totaliser, Stainless Steel					
	E18	Exd Rate Totaliser, Aluminium, HART					
	E19	Exd Rate Totaliser, Stainless Steel, HART					
	E0	Batch Controller					
	SR	Special					

Standard Conditions	
Bearings:	Tungsten Carbide
Body:	316SS or special
Rotor:	Duplex SS
Std. Linearity:	+/-1.0% over flow range
Prem. Linearity:	+/-0.5% over flow range
Service:	Liquid
Mounting Position:	Horizontal
Example	
TWM50/50S-L2-EWA4R-M2-P32-E10	
Banksia Controls Wafer Turbine Flowmeter TWM Series, 2" size for 2" ANSI900RF flanges, flow range 8.6 to 86m3/hr, 316SS body, with premium linearity of +/- 0.5% over flow ranges, IS coil pickoff, fitted with E112 Exd rate totaliser in aluminium enclosure.	