



# TURBINE FLOWMETER

SERIES

# TAF



FLUIDEX TAF series is a turbine flowmeter, fitted with Axial Rotors, suitable to measure flows of low viscosity liquids. Sizes available start from ½" to 20" (DN15 to DN500). The TAF series covers a wide range of flow up to 7,000 m<sup>3</sup>/h (or 30,000 US GPM). The flowmeters are equipped with flow guides and need to be installed in straight sections of pipe either horizontal or vertical so that the flow is conditioned. The TAF series can be fitted with a variety of registers including explosion proof and Intrinsically Safe (I.S.).

### FEATURES AND BENIFITS:

- \* High accuracy & repeatability.
- \* Available in DN15 to DN500 (½" to 20") line sizes
- \* Flow range covered from 0.11~7,000 MPH (0.5~30,000 US GPM)
- \* Pressure up to 250 bar (3625 PSI)
- \* Temperature up to 240 °C (465 °F)
- \* Availability of explosion proof and Intrinsically Safe models
- \* Quadrature pulse output option.
- \* Integral or remote pre-amplifiers & flow instruments.
- \* ±0.15% custody transfer models available.

### STANDARD OPTIONS:

- ▶ Threaded, flanged and tri-clamp ferrules end connections
- ▶ Explosion proof
- ▶ Integral LCD totalizer and batch totalizer
- ▶ Flow rate totalizers
- ▶ Scaled pulse
- ▶ 4~20mA & flow alarm outputs
- ▶ Electronic batch controllers and pulse processing modules



Ex-Proof



Tri-Clamp Ferrules Ends



Threaded Ends



## GENERAL SPECIFICATIONS

### FLOW RANGE

Model	Size		Flow	
	MM (INCH)	M <sup>3</sup> /H	US GPM	
TAF010	DN15 (1/2")	0.11~1.1	0.5~5	
TAF012	DN20 (3/4")	0.22~2.2	1~10	
TAF015	DN20 (3/4")	0.4~4	1.76~17.6	
TAF020	DN20 (3/4")	0.8~8	3.52~35.2	
TAF025	DN25 (1")	1.6~16	7~70	
TAF040	DN40 (1 1/2")	3.4~34	15~150	
TAF050	DN50 (2")	6.8~68	30~300	
TAF080	DN80 (3")	13.5~135	60~600	
TAF100	DN100 (4")	27~270	120~1200	
TAF150	DN150 (6")	55~550	240~2400	
TAF200	DN200 (8")	110~1100	480~4800	
TAF250	DN250 (10")	190~1900	840~8400	
TAF300	DN300 (12")	270~2700	1200~12000	
TAF400	DN400 (16")	400~4000	1800~18000	
TAF500	DN500 (20")	700~7000	3000~30000	

### METER PERFORMANCE

	Accuracy and Repeatability
Standard	± 0.5% of reading (± 0.2% with optional NL correction)
Optional	± 0.15% of range for size DN100 (4") and larger
Repeatability	Typically ± 0.02% to 0.05% under steady flow conditions

### PRESSURE RANGE

	Maximum pressure in Bar (PSI)
Standard	Up to 250 (3625) (Threaded)
High Pressure	Up to 400 (5800) (Threaded)

### TEMPERATURE RATINGS

	°C (°F)
Standard	-40°C ~ +120°C (-40°F ~ +250°F)
Optional	Up to -240°C (+465°F)

### END CONNECTIONS

	Size Range	End Type
Threaded	DN15 (1/2") ~ DN50 (2")	BSP or NPT
Flanged	DN15 (1/2") ~ DN500 (20")	ANSI 150/300 or PN 10/16

### OUTPUT OPTIONS

	Output Type
Standard	Pick-off Coil
Optional	4-20mA, Scaled pulse, Quadrature pulse, Flow alarms or two stage batch control

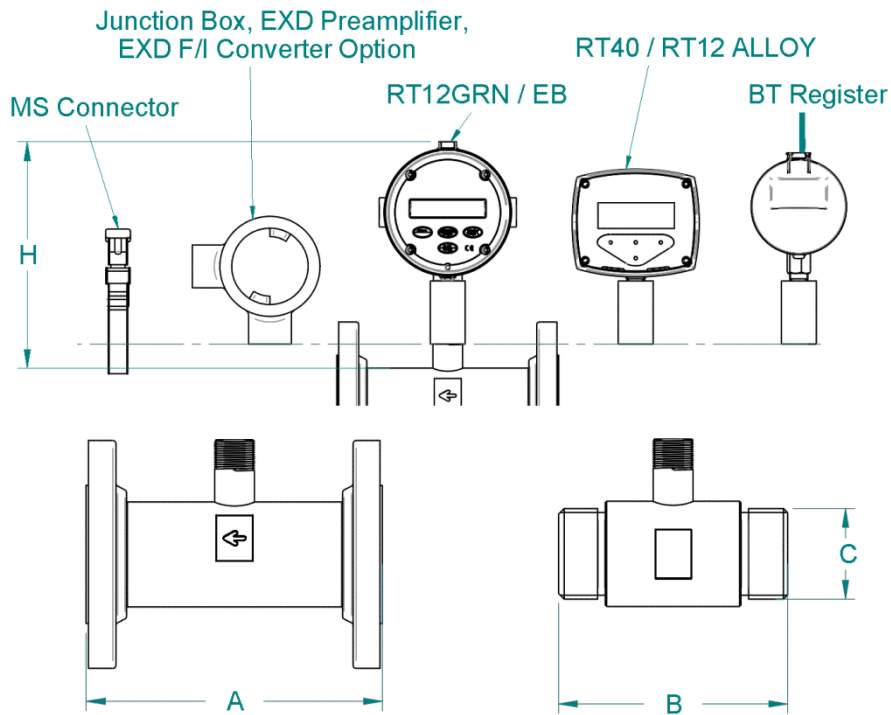
### ENVIRONMENTAL CLASSIFICATION

Protection class	IP66/67 (NEMA-4X)
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### HAZARDOUS AREA CLASSIFICATION

Class (Optional)	Exd I/IIb T4/T6 (Integral ancillaries can be supplied I.S. (Intrinsically Safe))
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## DIMENSIONS



PROCESS CONNECTIONS MODEL / DIMENSIONS	FLANGED A	THREADED		OPTION FITTED	H
		B	C		
TAF-010	127	64	1/2" BSP or NPT	RT12 (GRN) / EB	210
TAF-012	127	64	3/4" BSP or NPT	RT12 (ALLOY) / RT40	185
TAF-015	127	64	3/4" BSP or NPT	BT11	190
TAF-020	140	83	3/4" BSP or NPT	EX Junction Box	150
TAF-025	152	89	1" BSP or NPT	MS Connector	118
TAF-040	178	115	1 1/2" BSP or NPT	MS Connector with Pre-Amp	138
TAF-050	197	133	2" BSP or NPT		
TAF-080	254				
TAF-100	356				
TAF-150	368				
TAF-200	457				
TAF-250	457				
TAF-300	457				
TAF-400	610				
TAF-500	610				

All dimensions are in millimeters ±2 mm



## METER SELECTION MATRIX AND ORDER CODE

	SIZE		FLOW		PULSE OUTPUT (NOMINAL)				
	INCH	MM	MPH	US GPM	Mill volts	P/Litre	P/USG	Frequency (Hz)	
TAP-010	½"	DN15	0.11~1.1	0.5~5	100-1000	4000	15140	120-1200	
TAF-012	¾"	DN20	0.22~2.2	0.9~9	110-1100	1700	6435	104-1040	
TAF-015	¾"	DN20	0.4~4	1.8~18	130-1300	1100	4160	120-1200	
TAF-020	¾"	DN20	0.8~8	3.6~36	100-1000	400	1500	90-900	
TAF-025	1"	DN25	1.6~16	7~70	90-900	180	680	80-800	
TAF-040	1½"	DN40	3.4~34	15~150	65-650	60	230	57-570	
TAF-050	2"	DN50	6.8~68	30~300	50-500	24	90	45-450	
TAF-080	3"	DN80	13.5~135	60~600	65-650	15	57	56-560	
TAF-100	4"	DN100	27~270	120~1200	60-600	6.6	25	50-500	
TAF-150	6"	DN150	55~550	240~2400	40-400	2.3	8.7	35-350	
TAF-200+	8"~20"	DN200~DN5							
		<b>Body material</b>							
	S	316 Stainless Steel – 250 Bar (3500 psi.) maximum							
		<b>Process Connection</b>							
		1	BSP male threaded (for sizes ≤ DN50 (2"))						
		2	NPT male threaded (for sizes ≤ DN50 (2"))						
		3	Tri clamp ferrules (Not available for size ½")						
		4	ANSI-150 RF flanges						
		5	ANSI-300 RF flanges						
		6	PN10 DIN flanges						
		7	PN16 DIN flanges						
		8	PN25 DIN flanges						
		9	Customer nominated (Consult Factory)						
			<b>Process Connection Material</b>						
		T	Threaded Stainless steel as body						
		C	Carbon Steel Flanges (for sizes ≥ DN80 (3"))						
		S	Stainless Steel 316 Flanges						
			<b>No. of Pick-offs</b>						
		1	One						
		2	Two x 90 degree electrically offset (for sizes ≥ DN100 (4"))						
			<b>Pick-off style</b>						
		-	1	MS (Military Style)connector					
		-	2	Hermetically sealed or high temperature (200 °C (400 °F) max.					
		-	3	ATEX approved I.S. (120 X (250 F)) Max. (Ex-ia)					
		-	4	Pre-amplified (65 C (150 F) Max.) (MS Connection only)					
			<b>Linearity</b>						
		1	±0.5% (Standard)						
		2	±0.15% Custody transfer (for sizes ≥ DN100 (4"))						
			<b>Integral Options</b>						
			JB	Junction Box					
			Ex	Aluminium Junction Box	Exd				
		With scalable pulse output	B2	BT11 Dual Totalizer					
		IEC. Ex & ATEX approved	B3	BT11 Intrinsically Safe (I.S.)					
		Outputs: Scaled pulse, alarm, 4-20 mA	R0	RT12 Flow Rate Totalizer	Alloy Housing				
		Outputs: Scaled pulse, alarm, 4-20 mA	R2	RT12 Flow Rate Totalizer	GRN Housing				
		IEC. Ex & ATEX approved	R3	RT12 Intrinsically Safe (I.S.)					
		Large digit flow rate, totals, scaled pulse, backlighting	R4	RT40 Flow Rate Totalizer					
			FI	Loop powered 4~20mA					
		DC powered 2 stage batch controller	E0	EB10 Batch Controller					
		Consult factory	SB	Specific build requirement					





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