

Flomec Turbopulse turbine flowmeters measures flows of low viscosity liquids from 3 to 7000 litres/hr in a range of sizes from ½" to 20" (12-500mm). TP series flowmeters have an axial rotor and flow guides & need to be installed in straight sections of pipe either horizontal or vertical so that the flow is conditioned. TP 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

- 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
- ± 0.15% custody transfer models available

Integral instruments

Flomec TP 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:

- T LCD 5 digit reset, 8 digit cumulative totaliser.
- RT12 LCD 6 digit reset, cumulative totaliser & flow rate. Analogue and pulse outputs
- RT40 LCD 6 digit reset, cumulative totaliser & flow rate. Backlit Display.
- EB LCD 6 digit 2 stage batcher & cumulative totaliser.

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



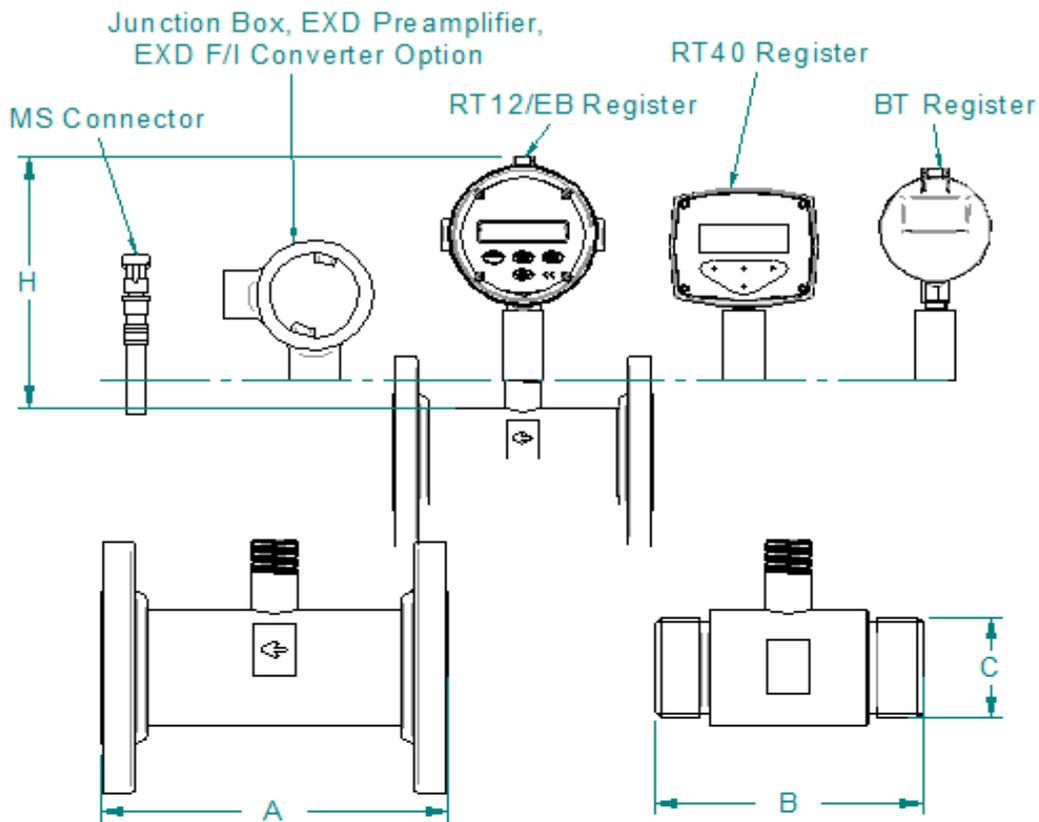
Specifications

Model prefix :	TP-Turbopulse
Nominal size (inches)	12 ~ 500mm (1/2" ~ 20")
**Accuracy @ 3cp	± 0.5% of reading (accuracy is ± 0.2% of reading with optional RT12 with non-linearity correction)
Temperature range	-40°C ~ +200°C (-40°F ~ +400°F), refer factory for lower temperature
Maximum Viscosity	10 Cst (68 Cst for High Pressure meters)
Maximum pressure	(Threaded meters)bar (PSI)
316 Stainless steel	250 (3625)
High pressure SS	400 (5800)
Electrical - (see also optional output - Turbopulse pick-off types)	
Standard output	Pick-off Coil
Optional outputs	4~20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control
Physical	
Protection class	IP66/67 (NEMA4X), optional Exd IIB T4/T6, integral ancillaries can be supplied I.S. (intrinsically safe)
Overall dimensions	Refer over page

FLOW RANGES - TP Turbopulse

size	model	litres/hr (GPH)
½"	TP010	100~1100 (0.44~4.4)
¾"	TP012	220~2200 (0.97~9.7)
¾"	TP015	400~4000 (1.77~17.7)
¾"	TP020	800~8000 (3.5~35.2)
m3/hr (GPM)		
1"	TP025	1.6~16 (7~70)
1½"	TP040	3.4~34 (15~150)
2"	TP050	6.8~68 (30~300)
3"	TP080	13~135 (60~600)
4"	TP100	27~270 (120~1200)
6"	TP150	55~550 (240~2400)
8"	TP200	110~1100 (480~4800)
10"	TP250	190~1900 (840~8400)
12"	TP300	270~2700 (1200~12000)
16"	TP400	400~4000 (1800~18000)
20"	TP500	700~7000 (3000~30000)

Over all Dimensions:



FLANGED METERS AVAILABLE WITH A.N.S.I OR DIN FLANGES. SEE APPLICABLE STANDARD FOR FLANGE DIMENSIONS

FLANGED METERS

Model No.	A (mm)
TP-010	127
TP-012	127
TP-015	127
TP-020	140
TP-025	152
TP-040	178
TP-050	197
TP-080	254
TP-100	356
TP-150	368
TP-200	457
TP-250	457
TP-300	457
TP-400	610
TP-500	610

Option Fitted	H (mm)
RT12/EB Register	210
RT40 Register	185
BT Register	190
EX Junction Box	150
MS Connector	118
MS Connector with Pre-Amp	138

THREADED METERS

Model No.	B (mm)	C
TP-010	64	1/2" BSP or NPT
TP-012	64	3/4" BSP or NPT
TP-015	64	3/4" BSP or NPT
TP-020	83	3/4" BSP or NPT
TP-025	89	1" BSP or NPT
TP-040	115	1 1/2" BSP or NPT
TP-050	133	2" BSP or NPT