



## TP SERIES TURBINE FLOWMETERS

**FLOMEC® TP Series Flowmeters** measure flows of low viscosity liquids from 0.5 - 1200 gallons/min (1.8 - 4500 litres/min) in a range of sizes from ½" to 4" (15 - 100 mm). Installation orientation is horizontally or vertically, and they are available with hazardous area ATEX & IECEx, and Intrinsically Safe (IS) certifications.

## FEATURES & BENEFITS

- High accuracy and repeatability, direct reading flowmeter
- Wide flow range
- Rugged and compact design
- IS hazardous area versions available
- Integral 4-20mA option

## GENERAL SPECIFICATIONS

Suits Pipe Sizes	1/2" - 4" (15-100 mm)
Pipe Connections	NPT, BSP, ANSI #150, ANSI #300, PN16 DIN*
Accuracy (@ cP)	± 0.5% of reading
Viscosity Range	0.5 - 10cP
Temperature Range	-40° to +450° F (-40° to +232° C)**
Wetted Materials	316SS Bearing support & body, 431SS rotor, Tungsten Carbide bearing
Maximum Pressure	3625 psi (250 bar)
Protection Class	IP66/67 (NEMA4X), optional I.S. (Intrinsically Safe) Integral options

\*Flanges only available on meters 1" and larger. Threaded meters available for ½" - 2" only.

\*\*With high temperature pickup option.

## PRODUCT CONFIGURATION

### PRODUCT IDENTIFIER **1**

**TP010** = 1/2" (15 mm) 0.5-5 GPM (1.8-18 L/min)  
**TP015** = 3/4" (20 mm) 1.8-18 GPM (6.7-67 L/min)  
**TP020** = 3/4" (20 mm) 3.6-36 GPM (13-130 L/min)  
**TP025** = 1" (25 mm) 7-70 GPM (27-270 L/min)  
**TP040** = 1.5" (40 mm) 15-150 GPM (57-570 L/min)  
**TP050** = 2" (50 mm) 30-300 GPM (113-1130 L/min)  
**TP080** = 3" (80 mm) 60-600 GPM (225-2250 L/min)  
**TP100** = 4" (100 mm) 120-1200 GPM (450-4500 L/min)

### BODY MATERIAL **2**

**S** = 316 Stainless Steel - 3500 psi (250 bar) max.

### PROCESS CONNECTIONS / NO. OF PICK-OFFS **3 4**

**1T** 1 = BSPP male threaded / One  
**2T** 1 = NPT male threaded / One  
**4C** 1 = ANSI-150 RF flanges (Carbon Steel) / One  
**4S** 1 = ANSI-150 RF flanges (316SS) / One  
**5C** 1 = ANSI-300 RF flanges (Carbon Steel) / One  
**5S** 1 = ANSI-300 RF flanges (316SS) / One  
**7C** 1 = PN16 DIN flanges (Carbon Steel) / One  
**7S** 1 = PN16 DIN flanges (316SS) / One

### PICK-OFF STYLE **5**

- 1 = Military Style Connector
- 2 = Flying Leads (required for integral options)

### PICK-OFF TYPE / LINEARITY **6 7**

- 1** 1 = Standard (250° F [120° C] max.) / ± 0.5%
- 2** 1 = High Temp (450° F [232° C] max.) / ± 0.5%
- 3** 1 = ATEX/IECEx approved intrinsically safe 250° F [120° C] max.) / ± 0.5% (only available with R3 Integral Options)
- 5** 1 = Amplified (5-30V (dc) supply tracking pulse) 250° F [120° C] max.) / ± 0.5%

### INTEGRAL OPTIONS **8**

- JB** = Junction Box
- R3** = RT12 Intrinsically Safe (IECEx and ATEX approved) Rate Totalizer with all outputs (GRN housing)
- R4** = RT40 Backlit Rate Totalizer with scaled pulse (Alloy housing with fascia protector)
- R5** = RT14 Backlit Rate Totalizer with scaled pulse, alarms and 4-20mA (GRN housing)

**1 2 3 4 5 6 7 8**  
 ---->>>> **TP025 S 1T 1 -2 1 1 R5**

## DIMENSIONS

	A	B	C
TP010	-	2.52" (64 mm)	1/2" (15 mm) BSP or NPT
TP015	-	2.52" (64 mm)	3/4" (20 mm) BSP or NPT
TP020	-	3.27" (83 mm)	3/4" (20 mm) BSP or NPT
TP025	5.98" (152 mm)	3.50" (89 mm)	1" (25 mm) BSP or NPT
TP040	7.01" (178 mm)	4.52" (115 mm)	1 1/2" (40 mm) BSP or NPT
TP050	7.76" (197 mm)	5.23" (133 mm)	2" (50 mm) BSP or NPT
TP080	10" (254 mm)	-	-
TP100	14.01" (356 mm)	-	-

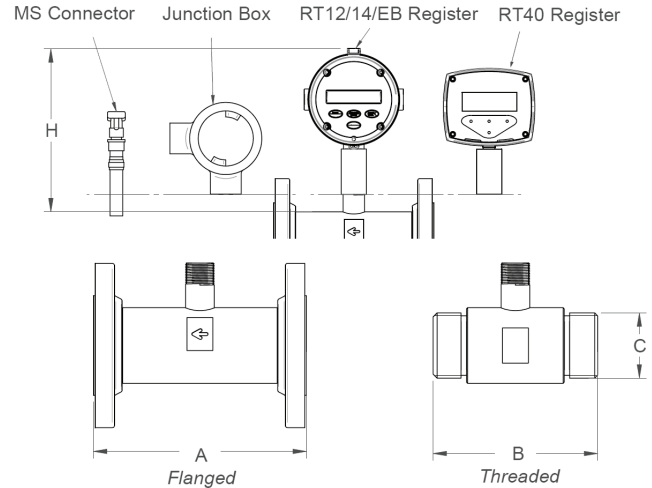
## APPLICATIONS

- Fuel
- Alcohols
- Solvents
- Insecticides
- Water
- Light Hydraulic Oils

## APPROVALS



OPTION	H
MS Connector	4.64" (118 mm)
Junction Box	5.91" (150 mm)
RT12/RT14/EB10	8.27" (210 mm)
RT40	7.28" (185 mm)



Not Available in the U.S.A.

Instrumia

5 rue des vigneron  
44220 COUERON  
Tél. : 02 28 03 93 90  
sales@instrumia.com  
www.instrumia.com