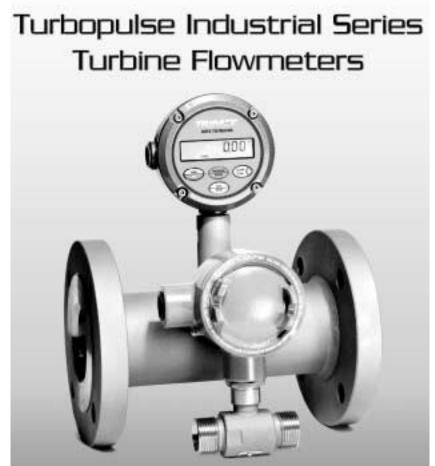


Features

- 15 sizes from 15 to 500mm (½ to 20")
- Wide variety of process connections
 - BSP / NPT male to 50mm (2")
 - ANSI or DIN flanges
- Pressure to 250 bar (3675 psi)
- Standard range of -50 to 120°C (-58 to 250°F)
- Long life tungsten carbide bearings
- +/- 0.5% linearity (10:1 turdown)

Options

- +/- 0.15% linearity (10:1 turndown) for sizes 100mm (4") and larger
- Explosionproof or intrinsically safe pickoffs
- Integral preamplifier, frequency to current convertor (4-20 mA output) or flowrate / totaliser with various outputs.
- Integral or remote self powered flow rate-totaliser with scaled pulse, analog and flow alarm outputs (see separate data sheet)
- Integral or remote high speed preset batch controller (see separate data sheet)



Overview

Turbopulse turbine flowmeters are precise, reliable and robust units for the volumetric flow measurement of clean low viscosity liquids.

Stainless steel construction with tungsten carbide bearings provides long life with a wide range of aggressive and non-lubricating liquids in petrochemical and general industrial applications.

Fifteen sizes cover flows from 0.11 to 7000 m³/hr (0.5 to 30000 USGPM) with +/- 0.5% linearity. Enhanced linearity is available in larger sizes where custody transfer performance is required.

The standard pick-off coil is supplied with either a military style plug or a junction box with terminal strip.

Integral preamplifiers are available for harsh environments, to extend transmission distance or to interface with secondary instruments that require a conditioned signal input.

An integral RT100 series flowrate totaliser is optionally available to provide local indication with 4-20mA and Hi/Lo flow alarm outputs and/or scaleable pulse output.

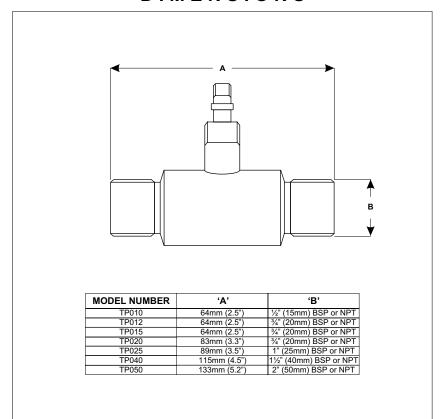
Calibration

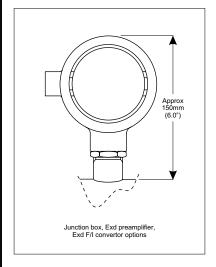
Sizes 25mm (1") and larger are calibrated on positive displacement prover loops in accordance with current API standards.

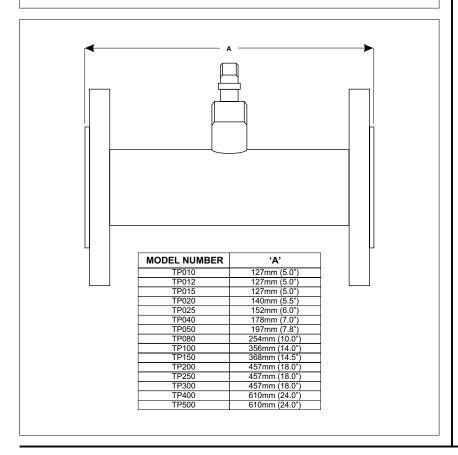
For each meter size calibration is performed at five points across the nominal flow range to ensure optimum performance in every application.

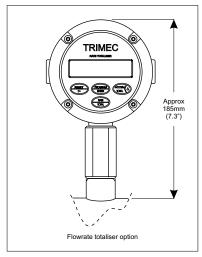
Data Sheet No.SLTP000-1001

DIMENSIONS









Note: All dimensions are nominal

SPECIFICATIONS

Connection Size	15 models from 15 to 500mm (1/2 to 20", DN15 to DN500) (see ordering information for available sizes)
Process Connections	BSP or NPT male threads to 50mm (2", DN50) All sizes flanged to ANSI or DIN specifications in carbon steel, 304 or 316 stainless steel, other flange types on request
Nominal Flow Range*	0.11 - 1.1 m³/hr to 700 - 7000 m³/hr (0.5 - 5 USGPM to 3000 - 30000 USGPM) (see ordering information for flow range of each model) * For non lubricating liquids, the maximum flow should be reduced by 25%
Viscosity Range	10 cSt recommended maximum to maintain linear range
Linearity	+/- 0.5% over 10:1 range as standard, +/- 0.15% over 10:1 range optional for sizes 100mm (4", DN100) and larger
Repeatability	+/- 0.02 to 0.05% under steady flow conditions
Temperature Range	-50 to 120°C (-58 to 250°F) as standard, optionally to 240°C (465°F)
Maximum Pressure	Threaded versions to 250 bar (3675 psi), flanged meters according to flange specification
Pressure Drop	Approximately 0.28 bar (4 psi) at maximum flow (SG=1, viscosity =1 cSt)
Body Material	304 stainless steel (1.4301) standard, 316 stainless steel (1.4401) optional
Rotor Material	ANSI 431 or SS 430/410 where cast
Bearing Support Material	304 stainless steel (1.4301) standard, 316 stainless steel (1.4401) optional
Bearings	Tungsten carbide sleeve
Output	Reluctance type pick-off coil (20 mV P/P minimum), max. 50m transmission.
Preamplifier Output	Two wire 4-20mA current pulse (12-28 VDC), max. 3000m transmission

Remote Mounting Options for 100 Series Electronics







ORDERING INFORMATION

		CONNECT	TION SIZE	FLOW	RANGE
TP		DN (mm)	inches	m³/hr	USGPM
	010	15	1/2"	0.11 - 1.1	0.5 - 5
	012	20	3/4"	0.22 - 2.2	0.9 - 9
	015	20	3/4"	0.4 - 4	1.8 - 18
	020	20	3/4"	0.8 - 8	3.6 - 36
	025	25	1"	1.6 - 16	7 - 70
	040	40	11/2"	3.4 - 34	15 - 150
	050	50	2"	6.8 - 68	30 - 300
	080	80	3"	13.5 - 135	60 - 600
	100	100	4"	27 - 270	120 - 1200
	150	150	6"	55 - 550	240 - 2400
	200	200	8"	110 - 1100	480 - 4800
	250	250	10"	190 - 1900	840 - 8400
	300	300	12"	270 - 2700	1200 - 12000
	400	400	16"	400 - 4000	1800 - 18000
	500	500	20"	700 - 7000	3000 - 30000

BODY MATERIAL

S

8

S		304 stainless steel
٧		316 stainless steel
	:'	PROCESS
	1	BSPP threaded
	2	NPT threaded
	3	* Tri-clamp ferrules (body material 316ss [V] only)
	4	ANSI 150 RF flanges
	5	ANSI 300 RF flanges
	6	PN10 flanges
	7	PN16 flanges

PROCESS CONNECTION MATERIAL

T	Threaded stainless steel as per body material		
S V C	304 stainless steel flanges		
٧	316 stainless steel flanges or Tri-clamp ferrules		
С	Carbon steel flanges		

NO. OF PICK-OFFS

PN25 flanges

Special

l	1	One
	2	Two, 90°Electrical Offset

PICK-OFF STYLE

1	MS connecto
2	Flying lead

PICK-OFF TYPE

1	Standard (120°C, 250°F)
2	High temperature (240°C, 465°F)
1 2 3 4	Intrinsically safe (85°C, 170°F)
4	Integral pre-amplifier (60°C, 140°F

LINEARITY

	1	+/- 0.5% (standard)
ı	2	+/- 0.15%

OPTIONS

00	None
----	------

- JB Exd junction box
- PA Exd preamplifier
- FI Exd frequency to current (F/I) convertor, 4-20 mA output
- R1 RT11 rate / totaliser (scaleable pulse output)
- R2 RT12 rate / totaliser (RT11 + 4-20 mAoutput & alarms)
- **EB** EB10 High Speed Preset Batch Controller



HEAD OFFICE & FACTORY

2/1 KOONYA CIRCUIT. TAREN POINT, SYDNEY, N.S.W. **AUSTRALIA**

Tel: +61 2 9540 4433 Fax: +61 2 9525 9411 Email: sales@trimecind.com.au Website: www.trimecind.com

TRIMEC EUROPE LTD

Floor 3. 5A Boltro Road **HAYWARDS HEATH WEST SUSSEX UNITED KINGDOM RH16 1BP**

+44 144 441 7880 Tel: +44 144 441 7668 Fax: Website: www.trimecind.com

TRIMEC USA LLC

2603 CAMINO RAMON, 2nd Fl. SAN RAMON, **CALIFORNIA 94583** U.S.A.

925-242-2510 Tel: 925-736-8497 Fax:

Email: schriefer@trimecusa.com Website: www.trimecind.com