

TURBINE FLOWMETERS



Designed &
priced for
overall appeal



The PT large capacity turbine meters measure flows of low viscosity liquids from 27 l/m to 4500 l/min in a range of sizes from 1" to 4" (25mm~100mm).

The PT series have an axial rotor and flow guides. The PT series need to be installed in straight sections of pipe either horizontal or vertical so that the flow is conditioned. The PT are also available series with Intrinsically Safe (I.S.) as an option.

Both meter series are robust, compact and take little space in the piping systems. Applications include fuels, alcohols, solvents, insecticides, milk, chemicals, water and light hydraulic oils.

FEATURES:

- High accuracy and repeatability
- Low cost of ownership
- Wide flow range
- Rugged and compact design
- I.S. hazardous area versions
- Integral or remote flow instruments

GENERAL SPECIFICATIONS

Model Prej		PT-Pulse Turbine
Nominal Size	12-500mm (1/2"-20")	
Accuracy @ 1cp	+/-0.5% o.r. (10:1 Turndown)	
Temperature Range	-40~+240°C (-40~+460°F)	
<i>Maximum Pressure</i>		
316 Stainless Steel	250 bar (3680 psi) 10cst max.	
High Pressure St St	400 bar (5580 psi) 68cst max.	
Peek	N/A	
Protection Class	IP66/67 (NEMA4X), optional Exd IIB T6 or I.S.	

Electrical (see also optional outputs - Pulse Turbine pick-off types)

FLANGED METERS

Model	A	
	mm	inches
PT025	152	6.0
PT040	178	7.0
PT050	197	7.8
PT080	254	10.0
PT100	356	14.0
PT150	368	14.5

PULSE TURBINE MODEL CODING

Pulse output (nominal):			P/litre	P/USG	Frequency (Hz)
PT025	1"	DN25	180	680	80~800
PT040	1 1/2"	DN40	60	230	57~570
PT050	2"	DN50	24	90	45~450
PT080	3"	DN80	15	57	56~560
PT100	4"	DN100	6.6	25	50~500
PT150	6"	DN150	2.3	8.7	35~350

Body Material

S	316 Stainless Steel - 250 bar (3500 psi) max.
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Process Connections

1T	BSP Male Thread
2T	NPT Male Thread
4C	ANSI 150 RF Flanges (Carbon Steel)
4S	ANSI 150 RF Flanges (316SS)
5C	ANSI 300 RF Flanges (Carbon Steel)
5S	ANSI 300 RF Flanges (316SS)
7C	PN16 DIN Flanges (Carbon Steel)
7S	PN16 DIN Flanges (316SS)

No. of Pick-offs

1	One
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Pick-off Style

- 1	MS (Military Style) Connector
- 2	FL (Flying Leads)

Pick-off Type

1	Standard Coil (120°C (250°F) Max.)
2	High temp. (232°C (450°F) Max.)
5	Amplified (5-30VDC supply tracking pulse)

Linearity

1	+/- 0.5 (Standard)
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Integral Options

	JB	Junction Box - ATEX Approved
Scaled pulse + Backlighting	R4	RT40 Backlit Flow Rate Totaliser

Model No. Example

PT025	S	1	T	1	-	2	1	1	R4
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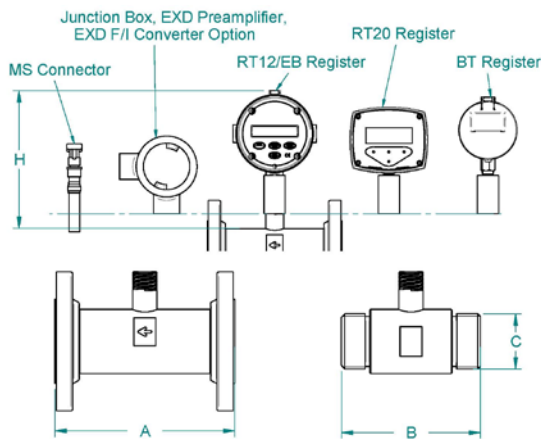
FLOW RANGES - PT-Pulse Turbine

Size	Model	m3/Hr (GPH)	
1"	PT025	1.6~16	(7~70)
1 1/2"	PT040	3.4~34	(15~150)
2"	PT050	6.8~68	(30~300)
3"	PT080	13~135	(60~600)
4"	PT100	27~270	(120~1200)

Option Fitted	H	
	mm	Inches
RT12/EB10	210	8.3
RT20 / BC20	185	7.3
EX Junction Box	150	6.0

THREADED METERS

Model	B		C
	mm	inches	
PT025	89	3.5	1" BSP or NPT
PT040	115	4.5	1 1/2" BSP or NPT
PT050	133	5.5	2" BSP or NPT



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

