

TURBINE FLOWMETERS



Designed & priced for overall appeal



The MT small and PT large capacity turbine meters measure flows of low viscosity liquids from 0.05 l/m to 550 m3/hr in a range of sizes from ¼" to 6" (6mm~150mm).

The MT mini series have a tangential rotor with integral flow conditioning ports, whilst 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 series have Exd & Intrinsically Safe (I.S.) approvals.

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
- Certified Exd and I.S. hazardous are versions
- Quadrature pulse output option
- Integral or remote pre-amplifiers and flow instruments
- +/-0.15% custody transfer models available

GENERAL SPECIFICATIONS

Model Prefix:

FLOW RANGES - MT-Mini Turbine

Model

MT001

MT002

MT003

MT004

MT005

MT006

FLANGED METERS

Model

PT010

PT012

PT015

PT020

PT025

PT040

PT050

PT080

PT100

PT150

MS Connector

Nominal Size
Accuracy @ 1cp
Temperature Range
Maximum Pressure

316 Stainless Steel High Pressure St St Peek

Protection Class

Size

1/4"

1/4"

1/4"

1/4"

1/4"

MT-Mini Turbine	PT-Pulse Turbine
6mm (1/4" BSPF	12-500mm (1/2"-20")
+/-1~2% FSD or +/-0.75% o.r.	+/-0.5% o.r. (10:1 Turndown)
5~125°C (40~250°F)	-40~+240°C (-40~+460°F)

10 bar (147 psi)	250 bar (3680 psi) 10cst max.	
N/A	400 bar (5580 psi) 68cst max.	
10 bar (147 psi) N/A		
IP66/67 (NEMA4X), optional Exd IIB T6 or I.S.		

<u>Electrical (see also optional outputs - Pulse Turbine pick-off types)</u>

(0.01~0.13)

 $(0.03^{\sim}0.4)$

(0.04~1.12)

(0.05~1.7)

(0.08~2.64)

(0.13~4)

Litres/Min (GPM)

0.05~0.5

0.12~1.5

0.2~4.5

0.25~6.5

0.3~10

0.5~15

inches

5.0

5.0

5.0

5.5

6.0

7.0

7.8

10.0

14.0

14.5

Α

mm

127

127

127

140

152

178

197

254

356

Standard Output	Hall effect sensor	Pick-off coil

Jet Ø

1mm

2mm

3mm

4mm

no jet

6mm

Size	Model	Litres/Hr	(GPM)
1/2"	PT010	100~1100	(0.44~4.4)
3/4"	PT012	220~2200	(0.97~9.7)
3/4"	PT015	400~4000	(1.77~17.7)
3/4"	PT020	800~8000	(3.5~35.2)
		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)
6"	PT150	55~550	(240~2400)

FLOW RANGES - PT-Pulse Turbine

Size	Model	Litres/Hr (GPM)	
1/2"	PT010	100~1100	(0.44~4.4)
3/4"	PT012	220~2200	(0.97~9.7)
3/4"	PT015	400~4000	(1.77~17.7)
3/4"	PT020	800~8000	(3.5~35.2)
		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)
6"	PT150	55~550	(240~2400)

TEOW NAMES - 1 1-1 dise Turbine			
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1/2"	PT010	100~1100	(0.44~4.4)
3/4"	PT012	220~2200	(0.97~9.7)
3/4"	PT015	400~4000	(1.77~17.7)
3/4"	PT020	800~8000	(3.5~35.2)
		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)

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3/4"	PT012	220~2200	(0.97~9.7)
3/4"	PT015	400~4000	(1.77~17.7)
3/4"	PT020	800~8000	(3.5~35.2)
		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)
6"	PT150	55~550	(240~2400)

THREADED METERS

RT20 Register

BT Register

Model	В		С
	mm	inches	
PT010	64	2.5	1/2" BSP or NPT
PT012	64	2.5	3/4" BSP or NPT
PT015	64	2.5	3/4" BSP or NPT
PT020	83	3.3	3/4" BSP or NPT
PT025	89	3.5	1" BSP or NPT
PT040	115	4.5	11/2" BSP or NPT
PT050	133	5.5	2" BSP or NPT

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

Junction Box, EXD Preamplifier,

EXD F/I Converter Option



	JB	Junction Box - ATEX Approved
	PA	Exd Preamplifier - ATEX Approved
	FI	Exd F/I Converter - ATEX Approved
With scaleable pulse output	B2	BT11 Dual Totaliser
IECEx & ATEX approved	B3	I.S. Intrisically Safe BT11
Scaled pulse, alarms & 4-20mA output	R2	RT12 Rate Totaliser
IECEx & ATEX approved	R3	I.S. Intrisically Safe RT12
Scaled pulse + Backlighting	R4	RT20 Flow Rate Totaliser
dc Powered 2 Stage batch controller	EO	EB10 dc Batch Controller
	SB	Specific Build Requirement

Model No. Example PT025 S 1 T 1 - 2 1 1 R2

PULSE TURBINE MODEL CODING

1 1/2

PT010 1/2'

PT012 3/4'

PT015 3/4"

PT020 3/4"

PT025

PT040

PT050

PT080

PT100 4

PT150 6"

Pulse output (nominal):

DN15

DN20

DN20

DN20

DN25

DN40

DN50

DN80

DN100

DN150

S 316 Stainless Steel - 250 bar (3500 psi) max. **Process Connection** 1 BSPP Male Thread 2 NPT Male Thread

3 * Tri-clamp Ferrules (316 St St)

9 Customer nominated connections

Process Connection Material T Threaded Stainless Steel C Carbon Steel Flanges (PT080+) S 316 Stainless Steel Process Connections

* Tri-clamp ferrules are 1/2" larger than the meter size

2 Two X 90 Degrees Electricity Offset (PT100+)

1 MS (Military Style) Connector

1 Standard Coil (120°C (250°F) Max.)

4 Pre-amplified (MS Connector Ony)

1 +/- 0.55 (Standard)

2 Hermatically Sealed or High Temp. Coil

Intrinsically Safe Coil - ATEX pproved

Integral Options

2 +/-0.15% (Custody Transfer PT100+)

Pick-off Style

2 FL (Flying Leads)

3

4 ANSI 150 RF Flanges

5 ANSI 300 RF Flanges

6 PN10 DIN Flanges

7 PN16 DIN Flanges

8 PN25 DIN Flanges

Body Material

P/litre

4000

1700

1100

400

180

60

24

15

6.6

2.3

P/USG

15140

6435

4160

1500

680

230

90

57

25

8.7

Frequency (Hz)

120~1200

104~1040

120~1200

90~900

80~800

57~570

45~450

56~560

50~500

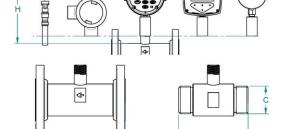
35~350

Standard Options:

Authorized Distributor

Flanged process connections, Explosion proof, integral and remote preamplifier, LCD totaliser, flow rate totalisers, scaled pulse, 4~20mA and alarm outputs, electronic batch controllers and pulse processing modules.





RT12/EB Register

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



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В

