

MTH (USA)

Multijet meter

Your benefits

- Robust, high grade wear resistant materials:
  Excellent measuring stability and reliability
- Measurement of low flow rates:
  Increased cost effectiveness

Applications

- For use in measurement of hot water in commercial and industrial applications where flow is in one direction only.

Properties

- Multijet impeller wheel, super dry-dial with magnetic coupling
- Register can be turned for best readout position
- Maximum operating pressure 232 psi
- Maximum operating temperature 266 °F
- Horizontal installation
- US Gallon register
- NPSM threaded connection
- High grade wear resistant and corrosion proof materials
- Inlet strainer
- Reconditionable and recyclable execution

Options

- Reed pulser IPG 14 with approx. 5 feet or 16 feet cable
  Documentation: IPG14 - EPe40217

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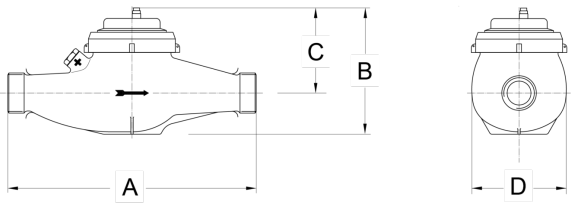
Technical Data

Execution			MTH									
Nominal size		**Inch**	**½**	**¾**		**1**		**1½**	**2**			
Operating pressure	**PN**	**psi**	**232**	**232**		**232**		**232**	**232**			
Connection thread on meter		Inch	¾" NPSM	1" NPSM		1¼" NPSM		2" NPSM	G23/8B [1]			
Nominal flow rate ± 3 %	**Q_n**	**gpm**	**6.6**	**11**		**15.4**		**44**	**66**			
Maximum flow rate ± 3%	Q_{max}	gpm	13.2	22		30.8		88	132			
Transitional flow rate ± 3 %	Q_t	gpm	0.66	1.10	0.88	1.54	1.23	3.52	5.28			
Minimum flow rate ± 5%	Q_{min}	gpm	0.26	0.44	0.22	0.62	0.31	0.88	1.32			
Temperature		max. ° F	266	266		266		266	266			
Measuring range	Q_{min}/Q_n		1:25	1:25	1:50	1:25	1:50	1:50	1:50			

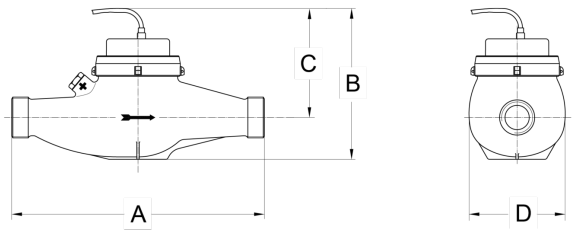
1] Couplings with connector tailpiece 2" NPSM available

Dimensions and weights			½"	¾"	1"	1"	1½"	2"
Length without couplings	A	Inch	6.5	7.48	10.24	10.75	11.81	11.81
Total height w/o Reed pulser	B	Inch	4.61	4.84	5.24	5.24	6.26	6.81
Total height with Reed pulser	B	Inch	5	5.24	5.63	5.63	6.65	7.2
Meter height from pipe centre line w/o Reed pulser	C	Inch	2.91	3.27	3.54	3.54	4.45	4.57
Meter height from pipe centre line with Reed pulser	C	Inch	3.31	3.66	3.94	3.94	4.84	4.96
Meter width	D	Inch	3.74	3.74	3.94	3.94	5.31	5.94
Weight w/o couplings		app. lbs	3.97	4.63	5.95	6.25	11.68	12.79
Weight with couplings		app. lbs	4.63	5.29	7.05	7.40	14.11	16.31

Dimension Diagram w/o Reed pulser



Dimension Diagram with Reed pulser



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Installation

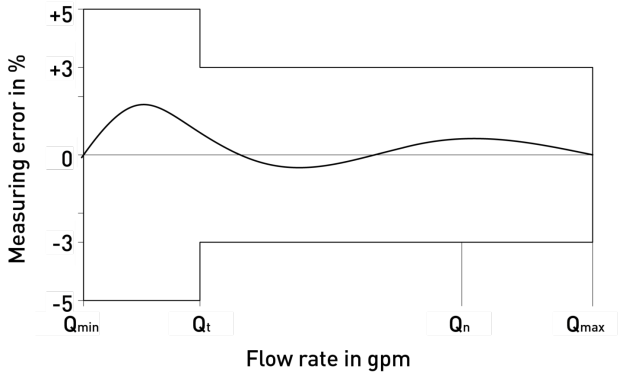
Pipeline: horizontal

Meter head: upwards

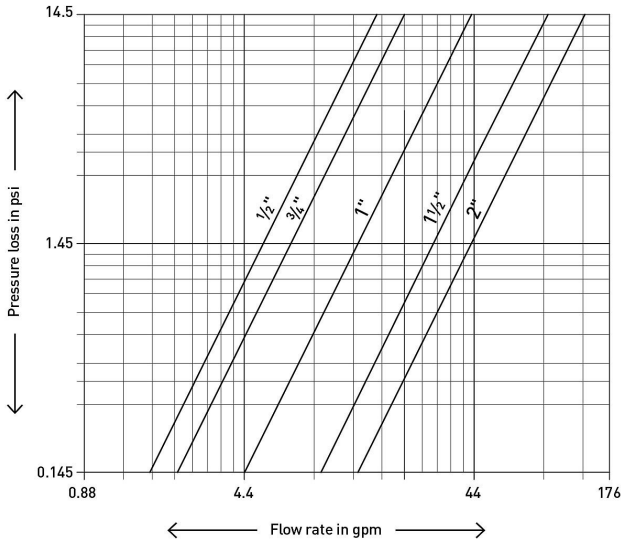
Materials

Housing	Brass (DIN 50930-6)
Sealing plate	Brass (DIN 50930-6)
Impeller	PA resp. PPS
Strainer	PVDF
O-Ring	EPDM

Measuring error curve



Typical Head Loss Curve



Pulser

The IPG 14 pulser consists of a molded insert with a clear housing to read the totalizing register. The pulse element is a dry contact reed switch rated at 4 Watts, max. voltage 42 V AC/DC, 18 Ohm resistance, approx. 10 Mio. switching cycles. The unit requires power from an external source and normally is wired in series with no regard to polarity, approx. 5 feet of 2-wire unshielded cable exist in a sealed fitting.

Pulse value table

Pulse values (1 Pulse = ... US Gallons)		
½" - 1"	1 [1)]	10
1½" / 2"	-	10

1) Only available in measuring range 1:25

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