



# MTW

Multijet meter  
for warm water up to 90°C  
DN 15, 20, 25, 32, 40, 50

## Your benefits

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

## Application

- Regular consumption monitoring of water consumption within an entire building
- For nominal flow rates up to 15m<sup>3</sup>/h

## Features

- Multijet impeller wheel, super dry-dial, magnetic coupling
- Register can be turned for best readout position
- Maximum operation pressure PN 16 bar (Flanged PN 25 bar)
- Maximum operating temperature 90°C
- Horizontal or vertical installation (MTW-V...)
- Flanged configuration only for horizontal installation
- High grade wear resistant and corrosion proof materials
- Inlet strainer
- Reconditionable and recyclable execution
- KTW and W270 Certification
- EEC- and country specific type approvals

## Options

- Flanged variant PN 16 or PN 25
- NPSM threaded connection (only for horizontal housing)
- Reed pulser IPG14 with 1,5m, 3m or 5m cable for the transmission to remote or centralised indication devices  
 Documentation: IPG14 - EPe40217
- **CE** Conformity according to European Measuring Instruments (MID)  
 Documentation: MTW - EPe20120
- MTWcoder® MP  
 Documentation: MTWcoder® MP - EPe20130

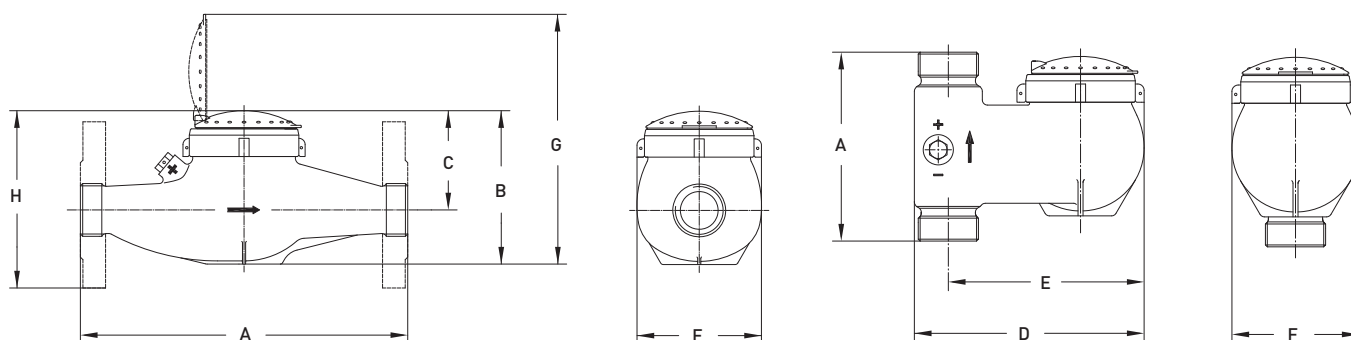
# Technical Data

Execution			MTW (horizontal)							MTW-VS or -VF (vertical) <sup>1)</sup>			
Nominal diameter	DN	mm	15	20	25	25	32	40	50	20	25	32	40
Operating pressure	PN	bar	16	16	16	16	16	16	16	16	16	16	16
Operating pressure (flanged)	PN	bar	-	25	25	25	25	25	25	-	-	-	-
Connection thread on meter	G...B	Inch	¾	1	1¼	1¼	1½	2	2¾	1	1¼	1½	2
Connection thread on coupling	R...	Inch	½	¾	1	1	1¼	1½	2	¾	1	1¼	1½
Nominal flow rate	Q <sub>n</sub>	m³/h	1,5	2,5	3,5	6	6	10	15	2,5	3,5	6	10
Maximum flow rate	Q <sub>max</sub>	m³/h	3	5	7	12	12	20	30	5	7	12	20
Transitional flow rate ±3%	Q <sub>t</sub>	l/h	120	200	280	480	480	800	1200	200	280	480	800
Minimum flow rate ±5%	Q <sub>min</sub>	l/h	30	50	70	120	120	200	300	50	70	120	200
Temperature		max. °C	90	90	90	90	90	90	90	90	90	90	90
Measuring range			1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50	1:50

Dimensions and weights			MTW (horizontal)							MTW-VS or -VF (vertical) <sup>1)</sup>			
Length without couplings	A	mm	165	220 <sup>2)</sup>	260	260	260	300	300	105	150	150	200
Length with couplings		mm	239	312	352	352	372	432	452	197	242	262	332
Total height	B	mm	108	114	123	123	123	149	199	-	-	-	-
Meter height from pipe centre line	C	mm	73	73	80	80	80	103	142	-	-	-	-
Meter depth	D	mm	-	-	-	-	-	-	-	148	169	183	226
Meter depth from pipe centre line	E	mm	-	-	-	-	-	-	-	130	143	156	190
Meter width	F	mm	95	95	100	100	100	135	151	95	98	101	139
Meter height with open lid	G	mm	185	191	200	200	200	226	240	-	-	-	-
Length with flanges PN 16/25		mm	-	190	260	260	260	300	300 <sup>3)</sup>	-	-	-	-
Height with flanges	H	mm	-	121	130	130	140	172	183	-	-	-	-
Flange external dimension <sup>4)</sup>		mm	-	105	115	115	140	150	165	-	-	-	-
Hole circle diameter <sup>4)</sup>		mm	-	75	85	85	100	110	125	-	-	-	-
Number of screws <sup>4)</sup>		Pcs.	-	4	4	4	4	4	4	-	-	-	-
Weight without couplings		app. kg	1,7	2,0	2,6	2,6	2,7	5,1	5,7	-	-	-	-
Weight without couplings MTW-VS		app. kg	-	-	-	-	-	-	-	1,9	2,2	2,2	5,6
Weight without couplings MTW-VF		app. kg	-	-	-	-	-	-	-	2,0	3,4	3,6	6,9
Weight with couplings		app. kg	2,0	2,3	3,1	3,1	3,4	6,2	7,3	-	-	-	-
Weight with couplings MTW-VS		app. kg	-	-	-	-	-	-	-	2,2	2,7	2,9	6,7
Weight with couplings MTW-VF		app. kg	-	-	-	-	-	-	-	2,3	3,9	4,3	8,0
Weight with flanges		app. kg	-	3,7	4,9	4,9	4,9	9,7	10,3	-	-	-	-

<sup>1)</sup> -VS = Vertical riser / -VF = Vertical down pipe    <sup>2)</sup> Also supplied in length 190mm    <sup>3)</sup> Also supplied in length 270mm    <sup>4)</sup> DIN EN 1092-2

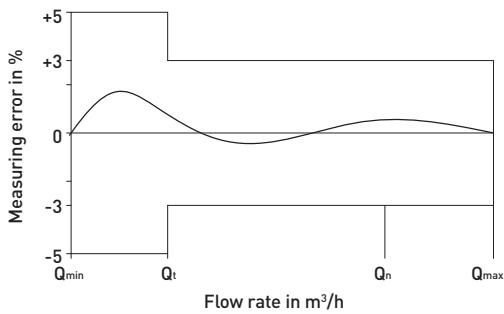
## Dimension Diagram



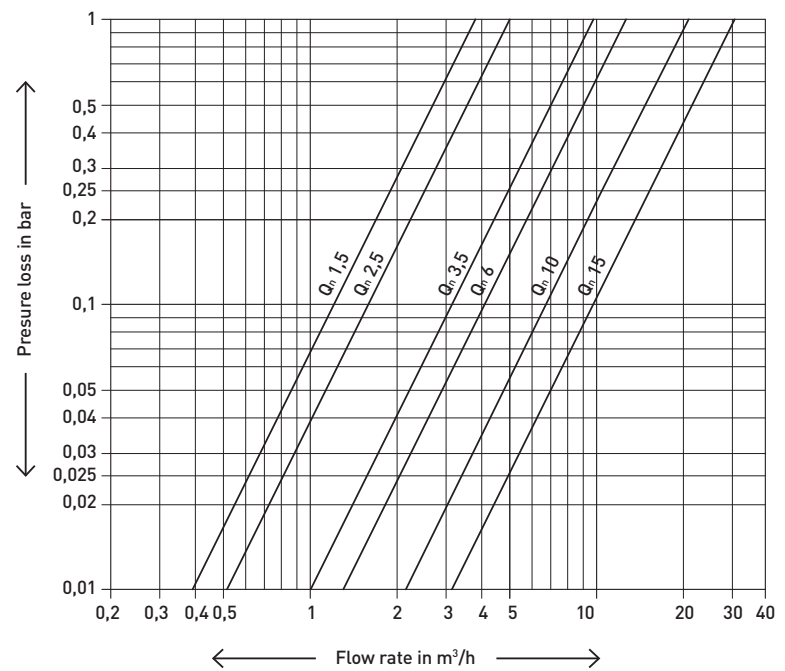
## Materials

Housing with screwed connection:	UBA Brass (DIN 50930-6)
Housing with flanged connection:	Cast iron
Sealing plate:	UBA Brass (DIN 50930-6)
Impeller / measuring insert:	High grade synthetic materials
Bearings:	Hard metal, Sapphire, Chrome nickel steel
Seal material:	EPDM

## Measuring error curve



## Typical Head Loss Curve



## Installation

Pipeline:	horizontal	—
	vertical	
Meter head:	upwards	↑

## Pulse value table

Pulse values	$Q_n 1,5-6$	1*	10	100
(1 Pulse = ... Liter)	$Q_n 10-15$	-	10	100

\* Only available in measuring range 1:25 without approvals

