



MTW

Multijet meter
for warm water up to 90°C
DN 15, 20, 25, 32, 40, 50
PN 16/25

Your benefits

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

Application

- The multijet warm water meter is suited for central heating installations and industrial measurement applications.
- For flow rates up to 15m³/h

Features

- Multijet impeller wheel, super dry-dial with magnetic coupling
- Register can be turned for best readout position
- Maximum operating pressure PN 16 (Threaded) / PN 25 (Flanged)
- Maximum operating temperature 90°C
- Horizontal or vertical (MTW-V...) installation
- Flanged configuration only for horizontal installation
- Reed pulser IPG14 with 1,5m cable
- High grade wear resistant and corrosion proof materials
- Inlet strainer
- Reconditionable and recyclable execution
- Magnetic protective cover against external influences
- **CE** Conformity according to European Measuring Instruments Directive (MID)
- Environmental class B, Accuracy class 3

Options

- Flanged variant PN 16 and PN 25
- Reed pulser IPG14 with 3m or 5m cable
- US Gallon register
- NPSM threaded connection (only for horizontal housing)
- Different pulse values
 Documentation: IPG14 - EPe40217

Technical Data

| Execution | | | MTW (horizontal) | | | | | | | MTW-VS or -VF (vertical) ¹⁾ | | | |
|-------------------------------|--------------------------------|-------------------|------------------|---------|---------|---------|---------|---------|---------|--|---------|---------|---------|
| 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 | 3/4 | 1 | 1 1/4 | 1 1/4 | 1 1/2 | 2 | 2 3/8 | 1 | 1 1/4 | 1 1/2 | 2 |
| Connection thread on coupling | R... | Inch | 1/2 | 3/4 | 1 | 1 | 1 1/4 | 1 1/2 | 2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Nominal flow rate | q _p | m ³ /h | 1,5 | 2,5 | 3,5 | 6 | 6 | 10 | 15 | 2,5 | 3,5 | 6 | 10 |
| Maximum flow rate | q _s | m ³ /h | 3 | 5 | 7 | 12 | 12 | 20 | 30 | 5 | 7 | 12 | 20 |
| Minimum flow rate | q _i | l/h | 30 | 50 | 70 | 120 | 120 | 200 | 300 | 50 | 70 | 120 | 200 |
| Kvs-value | | m ³ /h | 3,5 | 5 | 10 | 12 | 12 | 20 | 30 | 5 | 10 | 12 | 20 |
| Temperature range | | | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 | 2... 90 |
| Measuring range | q _i /q _p | | 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) ¹⁾ | | | |
|---|------|---------|------------------|-------------------|-----|-----|-----|-----|-------------------|--|-----|-----|-----|
| Length without couplings | A | mm | 165 | 220 ²⁾ | 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 | 121 | 127 | 137 | 137 | 137 | 163 | 177 | - | - | - | - |
| Meter height from pipe centre line | C | mm | 78 | 87 | 94 | 94 | 94 | 117 | 120 | - | - | - | - |
| 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 |
| Length with flanges PN 16/25 | | mm | - | 190 | 260 | 260 | 260 | 300 | 300 ³⁾ | - | - | - | - |
| Height with flanges | H | mm | - | 134 | 146 | 146 | 156 | 186 | 198 | - | - | - | - |
| Flange external dimension ⁴⁾ | | mm | - | 105 | 115 | 115 | 140 | 150 | 165 | - | - | - | - |
| Hole circle diameter ⁴⁾ | | mm | - | 75 | 85 | 85 | 100 | 110 | 125 | - | - | - | - |
| Number of screws ⁴⁾ | Pcs. | | - | 4 | 4 | 4 | 4 | 4 | 4 | - | - | - | - |
| Weight without couplings | | app. kg | 1,8 | 2,1 | 2,7 | 2,7 | 2,8 | 5,2 | 5,8 | - | - | - | - |
| Weight without couplings MTW-VS | | app. kg | - | - | - | - | - | - | - | 2,0 | 2,3 | 2,3 | 5,7 |
| Weight without couplings MTW-VF | | app. kg | - | - | - | - | - | - | - | 2,1 | 3,5 | 3,7 | 7,0 |
| Weight with couplings | | app. kg | 2,1 | 2,4 | 3,2 | 3,2 | 3,5 | 6,3 | 7,4 | - | - | - | - |
| Weight with couplings MTW-VS | | app. kg | - | - | - | - | - | - | - | 2,3 | 2,8 | 3,0 | 6,8 |
| Weight with couplings MTW-VF | | app. kg | - | - | - | - | - | - | - | 2,4 | 4,0 | 4,4 | 8,1 |
| Weight with flanges | | app. kg | - | 3,8 | 5,0 | 5,0 | 5,0 | 9,8 | 10,4 | - | - | - | - |

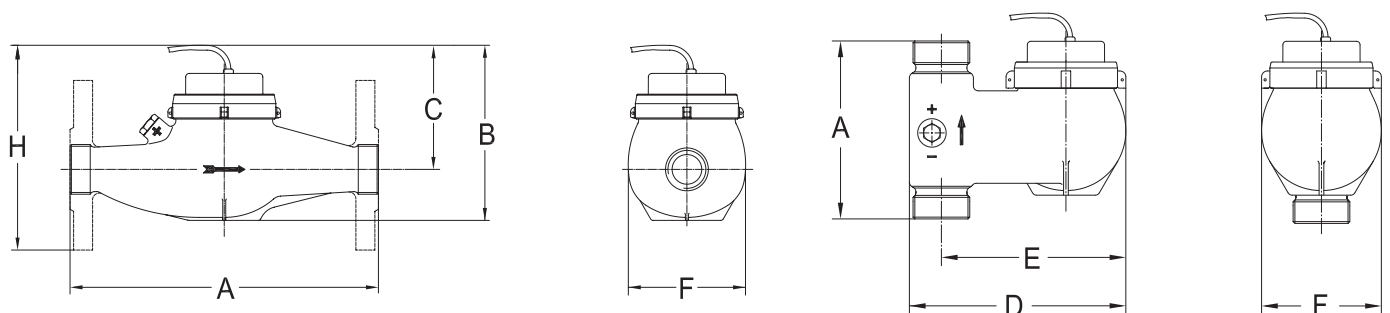
¹⁾ -VS = vertical riser / -VF = vertical down pipe

²⁾ Also supplied in length 190mm

³⁾ Also supplied in length 270mm

⁴⁾ DIN EN 1092-2

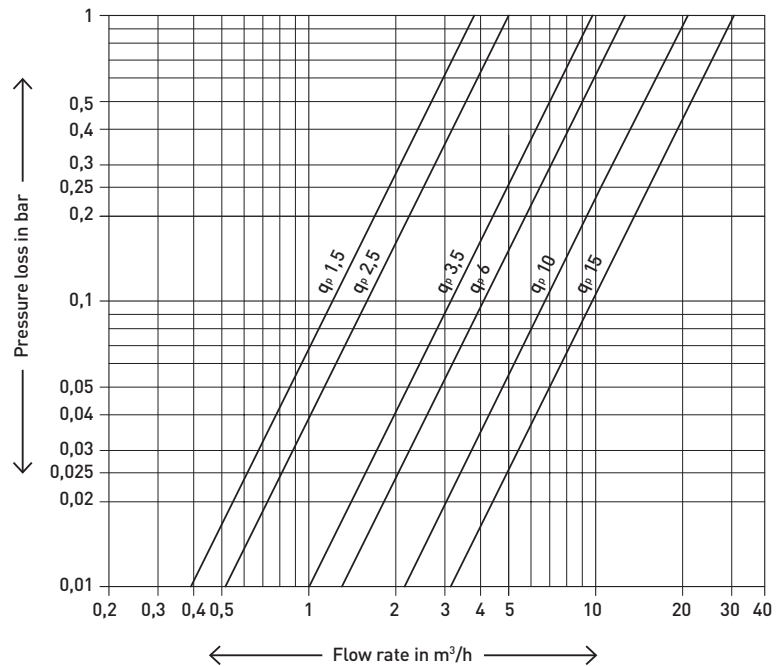
Dimension Diagram



Materials

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

Typical Head Loss Curve



Installation

| | | |
|-------------|------------|---|
| Pipeline: | horizontal | — |
| | vertical | |
| Meter head: | upwards | ↑ |

Pulse value table

| | | | | | | | |
|----------------------|----------|----|-----|----|----|-----|-----|
| Pulse values | qp 1,5-6 | 1* | 2,5 | 10 | 25 | 100 | 250 |
| (1 Pulse = ...Liter) | qp 10-15 | - | 2,5 | 10 | 25 | 100 | 250 |

* Only available in measuring range 1:25 without approvals

GWF MessSysteme AG
Obergrundstrasse 119
6005 Lucerne, Switzerland

T +41 41 319 50 50
F +41 41 310 60 87
info@gwf.ch, www.gwf.ch

Technical support:
T +41 41 319 52 00, support@gwf.ch

printed in
switzerland

Subject to modification, 23.08.2018 – EPe20312