Water



MTWcoder® MP

Multijet meter

Your benefits

- Mechanical roller register with 1-litre resolution: **Efficient consumption monitoring in energy data management**
- Transfer of the effective meter reading: **No data loss and guaranteed security of the billing data**
- Register without batteries: **No service life restriction**
- Robust, high grade wear resistant materials: **Excellent measuring stability and reliability**
- Measurement of low flow rates: **Increased cost effectiveness**

Applications

- Residential consumption monitoring of water consumption within an entire building
- For nominal flow rates up to 25 m^3/h
- Water meter with M-Bus data communication

Properties

- Multijet impeller wheel, super dry-dial, magnetic coupling
- 8 dial resolution with 3 comma place
- Register can be turned for best readout position
- Maximum operation pressure PN 16 bar
- Maximum operating temperature 90 °C
- High grade wear resistant and corrosion proof materials
- Inlet strainer
- CE Conformity according to European Measuring Instruments (MID)
- Serial M-Bus interface to EN 13757-2/3
- Power is provided from the M-Bus central
- Connecting cable, standard length 1,5 m
- NSF-61-G & 372 certified for DN25 and DN40

GWF AG
Obergrundstrasse 119
6005 Lucerne, Switzerland

T +41 41 319 50 50
info@gwf.ch, www.gwf.ch

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

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Technical Data

Execution			MTKcoder® MP (horizontal)		
Nominal diameter	DN	mm	25	40	50
Connection thread on meter	NPSM	Inch	1¼	2	2⅜
Connection thread on coupling	NPSM	Inch	1	1¼	2
Operating pressure	PN	bar	16	16	16
Nominal flow rate	Q_3	m^3/h	6,3	16	25
Overload flow rate[1]	Q_4	m^3/h	7,875	20	31,25
Transitional flow rate ±2%	Q_2	l/h	126	320	500
Minimum flow rate ±5%	Q_1	l/h	78,75	200	312,5
Smallest readable volume		l	0,05	0,05	0,05
Maximum register reading		m^3	100'000	100'000	100'000
Temperature		max. °C	90	90	90
Measuring range			R160	R160	R160

1] Max. 1 h per 24 h, with max. total time of 100 h

Dimensions and weights			MTKcoder® MP (horizontal)		
Length without couplings	A	mm	260	300	300
Length with couplings		mm	352	432	452
Meter height with lid	B	mm	135	160	174
Meter height with lid from pipe centre line	C	mm	91	114	117
Installation depth with lid from pipe centre line	W	mm	50	68	76
Meter height with open lid	G	mm	183	208	222
Weight without couplings		app. kg	2,6	5,4	6,7
Weight with couplings		app. kg	3,0	6,4	8,7

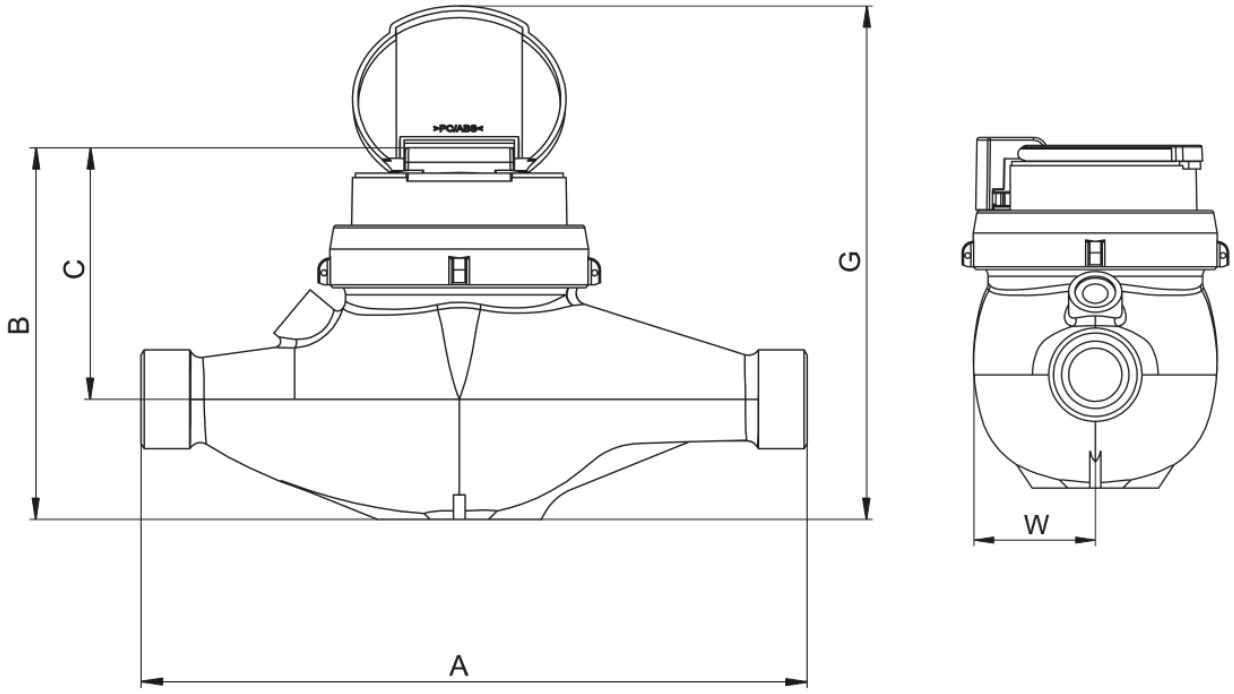
1] By turning the register / assembly installation depth W can be realised

Certifications	MTKcoder® MP (horizontal)		
SVGW certification	x	x	-
UBA Brass (DIN 50930-6)	x	x	-
NSF-61-G & 372	x	x	-

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Dimension Diagram

MTWcoder® MP
with meter lid



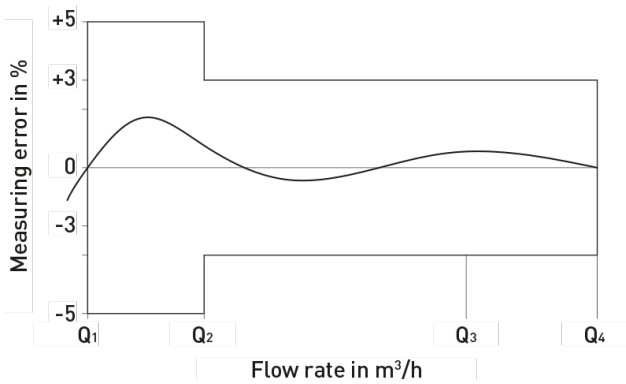
Materials

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

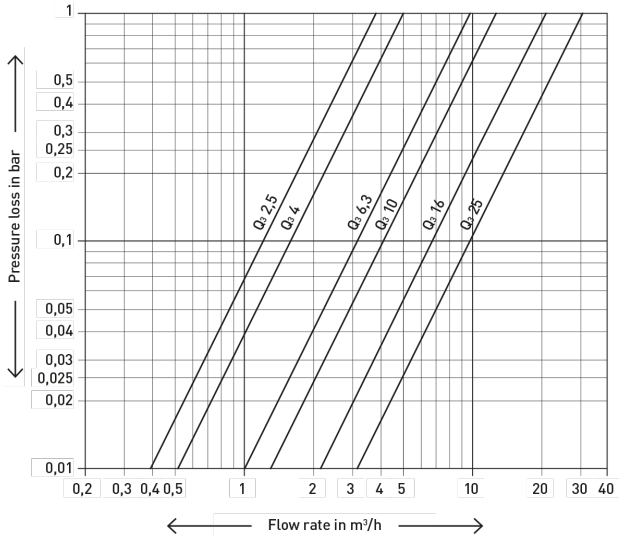
Information	
EU-REACH Art. 33 / ChemV Art. 71	Brass products contain lead > 0,1 %

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Measuring error curve



Typical Head Loss Curve



Installation

Pipeline: horizontal

Meter head: upwards

Installation Requirements

The meter must be installed so that the type plate is always horizontally positioned, facing upwards (do not tilt).

Documentation: GWF water meters - BAdfei10207

GWFcoder®-Technology

The 2nd generation

The well-established GWFcoder®-system reads the absolute mechanical register value precisely and reliably and provides the data through standardized interfaces. The number wheels with three various long, asymmetrically arranged slots are being scanned through light pipes which are connected to five light emitting diodes (LED). Thus, the exact position of each number wheel can be detected and the encoded absolute register read can be transmitted as part of the M-Bus protocol. This functioning principle is patented by GWF. The GWFcoder®-interface provides an incomparably higher level of information compared to meters with pulse output.

GWF enhanced the reliable technology in its 2nd generation, so that 8 instead of 5 number wheels are being scanned and therefore a resolution of 1 liter is possible.

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