MTKD-M PTFE

Multi-jet dry dial meter with PTFE (Teflon) internal and external coating for industrial application with aggressive water

Water meters are provided by default for the use of the medium drinking water. According to the Drinking Water regulation, the pH value must not have below 6.5 and not above 9.5.

If aggressive water is used (the pH value alone can not determine the aggressiveness of the water) then, all brass parts that come into contact with the medium must be protected to prevent them from corrosion.

We have decided to use PTFE coating in this area of application because of its excellent properties.

M-Bus M-Bus LoRaWAN sigfox

Performance characteristics in overview

- All brass parts that come into contact with the medium have PTFE coating to protect them from corrosion
- Dry dial multijet register with shielded magnetic coupling
- Non reactive, electronic pulse detection
- Register cap made of high-quality UV-resistant polymer plastic
- Available with flood-proof (IP68 hermetically sealed glass/copper register)
- For horizontal and vertical installation (also for ascending and descending pipes)
- Teflon-coated screw fitting available as accessories
- Approved in accordance with MID

AMR options

- Model “-M” serially equipped with communication interface (Standard pulse value 1 l/pulse) for:
  - Electronic Pulser
  - Wired M-Bus
  - Radio via Wireless M-Bus
  - Radio via LPWAN (LoRaWAN™, SIGFOX)

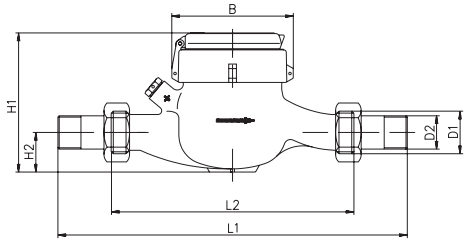
Applications

- Completely desalinated water
- Demineralized water
- Deionized water
- Distilled water
- Decarbonated water
- Soft water
- Osmosis water
- Mineral water
- Ultrapure water
- For the consumption measuring of cold potable water up to 50° C

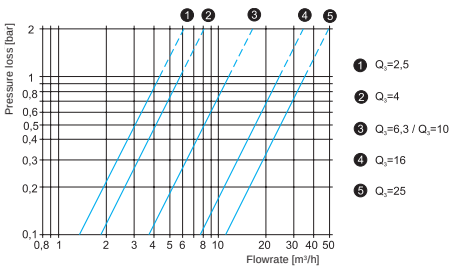
ZENNER
Alles, was zählt.

Technical data MTKD-M PTFE										
Permanent Flowrate	Q_3	m³/h	2.5	4	6.3	10	10	16	25	25
Comparable to nominal flow (EEC)	Q_n	m³/h	1.5	2.5	3.5	6	6	10	15	15
Attainable measuring range	Q_3/Q_1	R	100H	160H/40V	R40 160H	R50 160H	R50 160H	R40 160H	125H/40V	125H/40V
Standard measuring range [1]	Q_3/Q_1	R	R80H	R40 R80H	R40 R80H	R40 R80H	R40 R80H	R40 R80H	80H/40V	80H/40V
Comparable to metrological class (EEC)	class		B-H	B-H/A-V	A / B-H	A / B-H	A / B-H	A / B-H	B-H/A-V	B-H/A-V
Overload Flowrate [2]	Q_4	m³/h	3.13	5	7.88	12.5	12.5	20	31.3	31.3
Minimum flow [2]	Q_1	l/h	31H	50H/100V	158V/79H	250V/125H	250V/125H	640V/200H	313H/625V	313H/625V
Start-up flow rate	-	l/h	<10	<10	<18	<18	<18	<40	<25	<25
Display range	min.	l	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1
	max	m³	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99	R8 99.999,999 R7 99.999,99
Temperature range	-	°C	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50
Operating pressure	MAP	bar	16	16	16	16	16	16	16	16
Pulse value	-	l/pulse	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10
Pressure loss class	Δp		0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Mechanical environmental condition	-	-	M2	M2	M2	M2	M2	M2	M2	M2
Climatic condition[3]	-	°C	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0	U0/D0
Weight and dimensions										
Nominal diameter	DN	mm	15	20	25	25	32	40	50	50
		inch	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	2"	2"
Overall length [1]	L2	mm	165/170	190	260	260	260	300	300	270
Overall length with connectors approx.	L1	mm	245/250	286	378	384	384	428	444	---
Thread meter G x B	D1	inch	3/4"	1"	1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"	flange
Thread connector	D2	inch	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	2"	---
Width approx.	B	mm	95	95	95	95	95	110	110	110
Height approx.	H1	mm	120	120	120	120	120	150	150	175
	H2	mm	35	25	35	40	40	50	60	75
	H3	mm	15	15	15	15	15	15	15	15
Weight ca.	-	kg	1.2	1.3	2.1	2.1	2.1	4.0	4	9.5

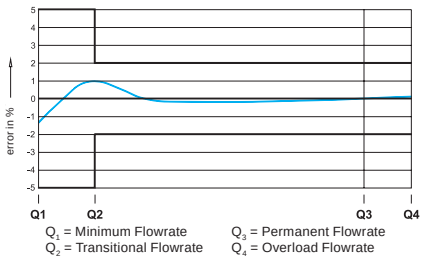
[1] Other measuring ranges (R) on request
[2] The data refer to the standard measuring range
[3] Condensation possible
Attention: not all versions are available in all markets



Dimensions MTKD-M PTFE



Typical pressure loss curve



Typical pressure loss curve

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