

# MT-DK / MTH-DK

## MT-S/F-DK / MTH-S/F-DK



### APPLICATION

Contact water meter for proportional control of pumps, motors, etc.  
Metering with digital preselection of quantity and remote transmission of flow rates.

### FEATURES

- ▶ Multi-jet impeller meter in completely dry-running design with magnetic coupling
- ▶ Only the impeller operates in the wet chamber to prevent faults due to sediment
- ▶ Encapsulated waterproof counter. Reading not obstructed by condensation of the transparent cover
- ▶ Counter can be rotated to any position for easy reading
- ▶ Built-in pulse contact (with cable 2 m) cast in a waterproof enclosure and easily replaceable
- ▶ Max. contact load 24 V (SELV) 0.2 A
- ▶ The outlet is prepared for installing a non-return valve (DVGW approved)

# MULTI-JET METER for horizontal pipes

## GENERAL

| Meter for horizontal pipes  |                      |                                  |    |
|-----------------------------|----------------------|----------------------------------|----|
| Medium temperature range    | °C                   | 0 ... 30                         |    |
| Temperature safety          | °C                   | 0 ... 90                         |    |
| Ambient storage temperature | °C                   | 0 ... 55                         |    |
| Nominal pressure            | PN                   | bar                              | 16 |
| Display range               | 0.05 l ... 99,999 m³ |                                  |    |
| Pulse value*                | l/pulse              | 0.25, 0.5, 1, 2.5, 10, 100, 1000 |    |
| Approval                    | KTW, W270            |                                  |    |
| Accuracy class              | A                    |                                  |    |
| Protection class            | IP 65                |                                  |    |

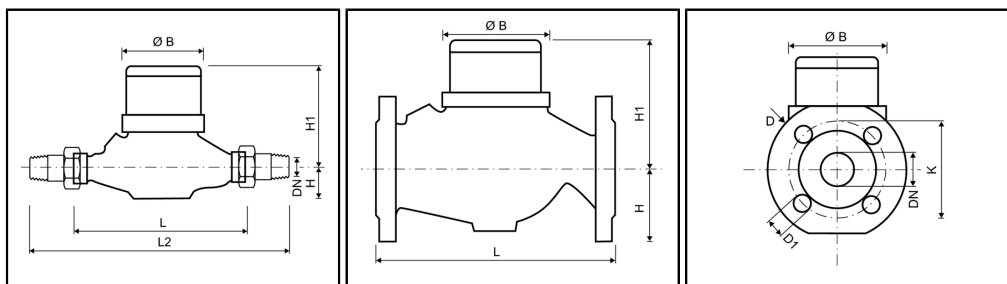
\* Reed switch with luster terminal available.

## TECHNICAL DATA

| Nominal diameter                 | DN        | mm   | 20    | 25    | 40    | 50    |
|----------------------------------|-----------|------|-------|-------|-------|-------|
| Nominal flow rate                | $Q_n$     | m³/h | 2.5   | 6     | 10    | 15    |
| Overall length (DIN ISO 4064)    | L         | mm   | 190   | 260   | 300   | 270   |
| Maximum flow rate (short-term)   | $Q_{max}$ | m³/h | 5     | 12    | 20    | 30    |
| Transition flow rate             | $Q_t$     | l/h  | 250   | 600   | 1000  | 1500  |
| Minimum flow rate                | $Q_{min}$ | l/h  | 100   | 240   | 400   | 600   |
| Starting flow rate               |           | l/h  | 20-25 | 40-50 | 60-70 | 80-90 |
| Flow rate at 1 bar pressure loss |           | m³/h | 7     | 12    | 24    | 34    |

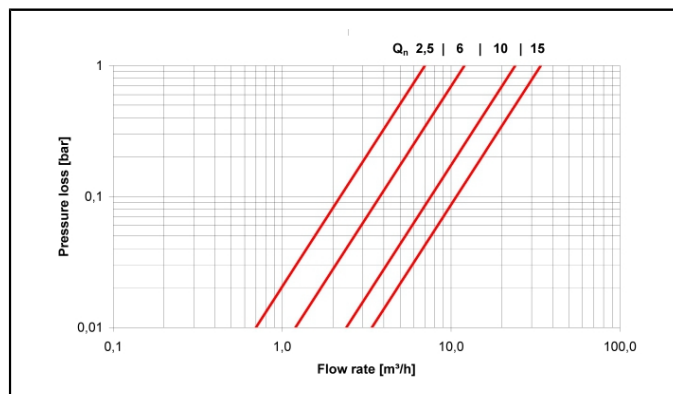
# MULTI-JET METER for horizontal pipes

## DIMENSIONS

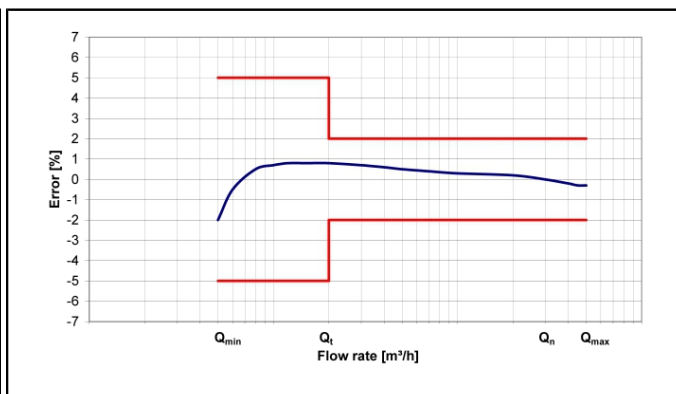


| Nominal diameter                         | DN    | mm   | 20  | 25   | 40  | 50   |
|------------------------------------------|-------|------|-----|------|-----|------|
| Nominal flow rate                        | $Q_n$ | m³/h | 2.5 | 6    | 10  | 15   |
| Overall length (DIN ISO 4064)            | L     | mm   | 190 | 260  | 300 | 270  |
| Overall length with coupling             | L2    | mm   | 288 | 378  | 438 | -    |
| Connection thread on meter (ISO 228/1)   |       | Inch | G1B | G1¼B | G2B | -    |
| Connection thread of coupling (DIN 2999) |       | Inch | R¾  | R1   | R1½ | -    |
| Flange diameter (DIN 2501)               | D     | mm   | -   | -    | -   | 165  |
| Hole circle diameter (DIN 2501)          | K     | mm   | -   | -    | -   | 125  |
| Number of screwholes                     |       | pcs  | -   | -    | -   | 4    |
| Screwhole diameter                       | D1    | mm   | -   | -    | -   | 18   |
| Height                                   | H     | mm   | 35  | 45   | 50  | 83   |
| Height                                   | H1    | mm   | 120 | 125  | 140 | 165  |
| Diameter                                 | Ø B   | mm   | 96  | 102  | 137 | 166  |
| Weight without coupling                  |       | kg   | 1.7 | 2.5  | 4.7 | 11.7 |
| Weight with coupling                     |       | kg   | 2.1 | 3.1  | 5.9 | -    |

## PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph

# MULTI-JET METER for rising pipes

## GENERAL

| Meter for rising pipes      |                      |                                  |    |
|-----------------------------|----------------------|----------------------------------|----|
| Medium temperature range    | °C                   | 0 ... 30                         |    |
| Temperature safety          | °C                   | 0 ... 90                         |    |
| Ambient storage temperature | °C                   | 0 ... 55                         |    |
| Nominal pressure            | PN                   | bar                              | 16 |
| Display range               | 0.05 l ... 99,999 m³ |                                  |    |
| Pulse value*                | l/pulse              | 0.25, 0.5, 1, 2.5, 10, 100, 1000 |    |
| Approval                    | KTW, W270            |                                  |    |
| Accuracy class              | A                    |                                  |    |
| Protection class            | IP 65                |                                  |    |

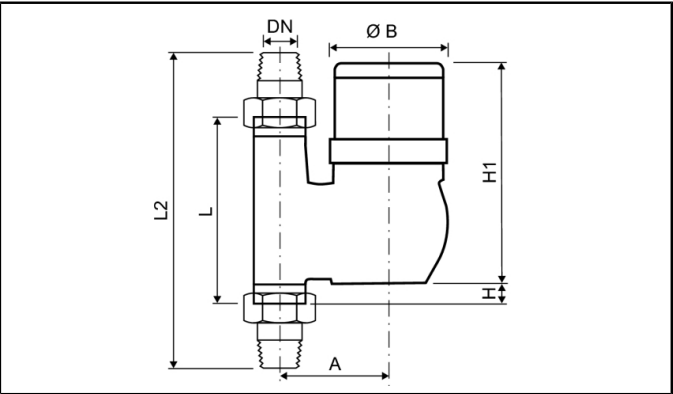
\* Reed switch with luster terminal available.

## TECHNICAL DATA

| Nominal diameter                 | DN        | mm   | 20    | 25    | 40    |
|----------------------------------|-----------|------|-------|-------|-------|
| Nominal flow rate                | $Q_n$     | m³/h | 2.5   | 6     | 10    |
| Overall length (DIN ISO 4064)    | L         | mm   | 105   | 150   | 200   |
| Maximum flow rate (short-term)   | $Q_{max}$ | m³/h | 5     | 12    | 20    |
| Transition flow rate             | $Q_t$     | l/h  | 250   | 600   | 1000  |
| Minimum flow rate                | $Q_{min}$ | l/h  | 100   | 240   | 400   |
| Starting flow rate               |           | l/h  | 20-25 | 40-50 | 60-70 |
| Flow rate at 1 bar pressure loss |           | m³/h | 6     | 12    | 22    |

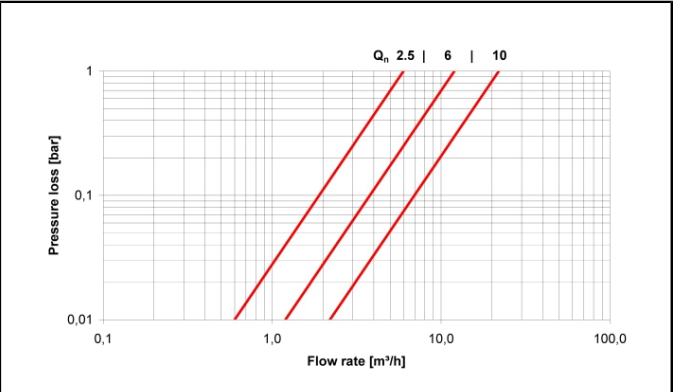
# MULTI-JET METER for rising pipes

## DIMENSIONS

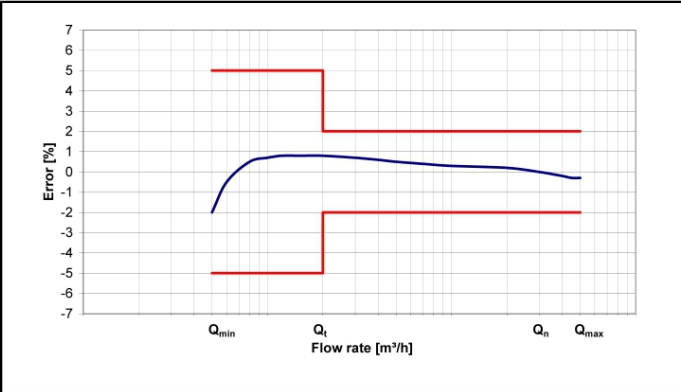


| Nominal diameter                         | DN    | mm                | 20  | 25   | 40  |
|------------------------------------------|-------|-------------------|-----|------|-----|
| Nominal flow rate                        | $Q_n$ | m <sup>3</sup> /h | 2.5 | 6    | 10  |
| Overall length (DIN ISO 4064)            | L     | mm                | 105 | 150  | 200 |
| Overall length with coupling             | L2    | mm                | 203 | 268  | 338 |
| Connection thread on meter (ISO 228/1)   |       | Inch              | G1B | G1¼B | G2B |
| Connection thread of coupling (DIN 2999) |       | Inch              | R¾  | R1   | R1½ |
| Height                                   | H     | mm                | 15  | 32   | 22  |
| Height                                   | H1    | mm                | 154 | 165  | 177 |
| Diameter                                 | Ø B   | mm                | 96  | 102  | 136 |
| Width                                    | A     | mm                | 82  | 95   | 120 |
| Weight without coupling                  |       | kg                | 2.1 | 3.1  | 5.5 |
| Weight with coupling                     |       | kg                | 2.5 | 3.7  | 6.7 |

## PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph