



## Q water 5.5

### **MID-compliant, electronic water meter with measuring capsule**

- › measuring capsule version with nominal flow  $Q_3$  2.5 m<sup>3</sup>/h
- › available for many connection interfaces from different manufacturers
- › integrated radio technology for integration into a Q walk-by or Q AMR system
- › integrated IR interface for simple parameter setting or readout

## Application

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The electronic water meter is used to measure water quantities. The main areas of application are water supply systems in which water is supplied individually to several consumers.

Such systems are used in e.g.:

- › apartment buildings
- › offices and administration buildings

Typical users are:

- › private building owners
- › housing industry and housing associations
- › building service companies and property management

## Features

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- › measuring water consumption
- › accumulating the consumption values
- › saving the accumulated consumption values on the due date
- › display of consumption values
- › display of the most important operating data
- › self-monitoring with error display data transmission via radio
- › detection of leakage
- › parameter setting and readout via optical interface (IR-compatible)

## Radio (wireless) features C-Mode

- › Radio system – parallel transmission of Q walk-by- and OMS® -conformal data telegrams
- › Increased radio performance
- › No change with the remote sensor system

Q walk-by (PDW)	Q AMR (PDD)
every 112 seconds	every 450 seconds (7.5 minutes)
10 hours per day (8 am ... 6 pm)	24 hours per day
365 days a year	365 days a year
Transmitted data:	Transmitted data:
› current consumption value with date	› current consumption value with date
› last month's value with date and values from previous 12 months	› last month's value with date
› due date value with date	› due date value with date
› device status: error code and error date	› device status: error code and error date

## Radio (wireless) features S-Mode

- › Radio system – parallel transmission of Q walk-by- and Q AMR-data telegrams
- › Increased radio performance
- › Transmission delay (offset)  
Time delay for sending data telegrams after the due date or at the beginning of the moth in days (standard = 0 days)
- › Transmission-free day  
A maximum of 2 days from Friday, Saturday and Sunday can be defined as transmission-free days At least 1 day must be set (standard = Sunday)
- › No change with the remote sensor system

Q walk-by	Q AMR
every 128 seconds	every 4 hours
10 hours per day (8 am ... 6 pm)	24 hours per day
monthly: 4 readout dates after the first day of each month	7 days per week
annual: 48 days after due date	365 days per year
Transmitted data:	Transmitted data:
› current consumption value with date	› current consumption value with date
› last month's value with date and values from previous 12 months	› last month's value with date
› due date value with date	› due date value with date
› device status: error code and error date	› device status: error code and error date

## Technical data

### General



QUNDIS GmbH hereby declares that the electronic water meter Q water 5.5 complies with directives 2011/65/EU (RoHS) and 2014/32/EU (MID).

The full text of the EU Declaration of Conformity is available at the following Internet address: <https://qundis.com/service/downloads-and-information/eu-declaration-of-conformity/#qr01>

### Ambient conditions

Protection rating	IP65, IP68 <sup>1</sup> according to EN 60529
Protection class	III according to EN 61140
Transport	-25 °C ... 70 °C, < 95 % r.F. (without condensation)
Storage	-5 °C ... 45 °C, < 95 % r.F. (without condensation)
Usage	5 °C ... 55 °C, < 95 % r.F. (without condensation)

### Standards

Interference resistance and interference emission	EN 301 489-1, EN 301 489-3
Security	EN 62368-1

### Influencing quantities

Electromagnetic class	E1
Mechanical class	M1

### Radio technology

Radio mode	S-Mode (Q AMR, Q walk-by) C-Mode (Q AMR, Q walk-by)
Radio frequency	EN 300 220-2 S-Mode (868.30 +/- 0.30) MHz C-Mode (868.95 +/- 0.25) MHz
Transmission power	typical 10 dBm, maximum 14 dBm
Encryption <sup>2</sup>	Security Mode 5 according to EN 13757-7, Security Profile A according to OMS specification
Data transmission	EN 13757-4
Duty Cycle	< 1 % (50ms/128 s)

### Power supply

Lithium battery	Nominal voltage 3.0 V
Battery life	10 years operation + 1 year reserve + 1 year storage

### Flow sensor

Max. permissible operating pressure (MAP)	1.6 MPa (16 bar)
Pressure loss class according to ISO 4064	Δp 63
Inflow and outflow zone	not required (U0/D0)

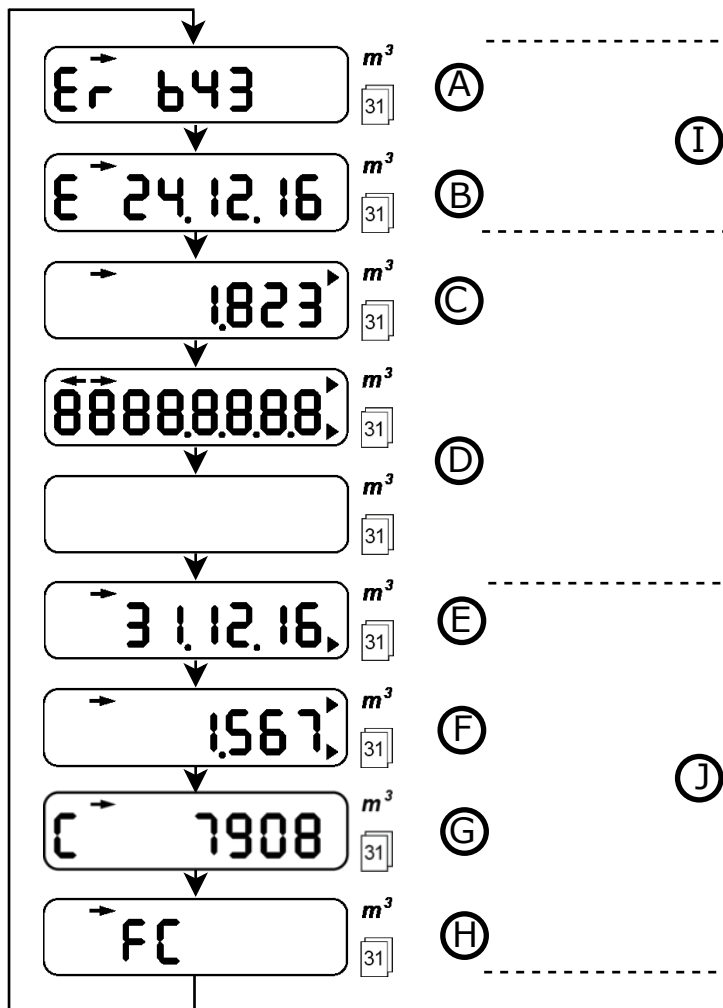
<sup>1</sup> tested according to manufacturer specifications

<sup>2</sup> Encryption optional

Type overview WME5 xxxx ...	... 4	... 6	... 8	... A	... C	... E	... J	... T	... V	... W	... X
Meter size/Continuous flow $Q_3$	2.5 m <sup>3</sup> /h										
Corresponds to previous nominal size $Q_n$	1.5 m <sup>3</sup> /h										
suitable for connection interface	IST	A34	TE1	MOC/ MOE	MET	HT2	MB3	DM1	MUK	WE1	WGU
Connection thread	G2"	M77 x 1,5	M62 x 2	M65 x 2	M64 x 2	M66 x 1	M76 x 1,5	M60 x 2	G2 <sup>1</sup> / <sub>4</sub> "	M78 x 1,5	M66 x 1,25
Performance data											
Overload flow rate $Q_4$	3.125 m <sup>3</sup> /h										
Transition flow rate $Q_2$ (H/V)	50 / 100 l/h										
Minimum flow rate $Q_1$ (H/V)	31.25 / 62.5 l/h										
Measuring range (MID) $Q_3/Q_1$ (H/V)	R80 / R40										
Permanent load $Q_3$	2,500 l/h										
Temperature class MAT	Cold water T30, Hot water T30 / T90 °C										
permissible operating pressure MAP	16 bar										
Inflow and outflow zone	U0 / D0										

## Display

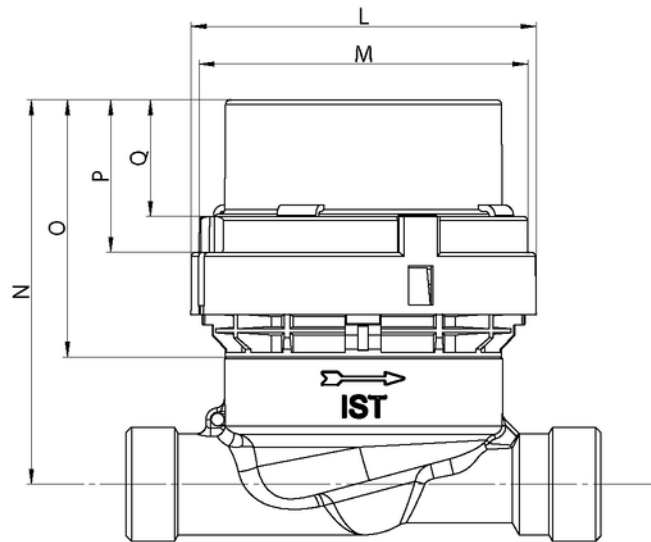
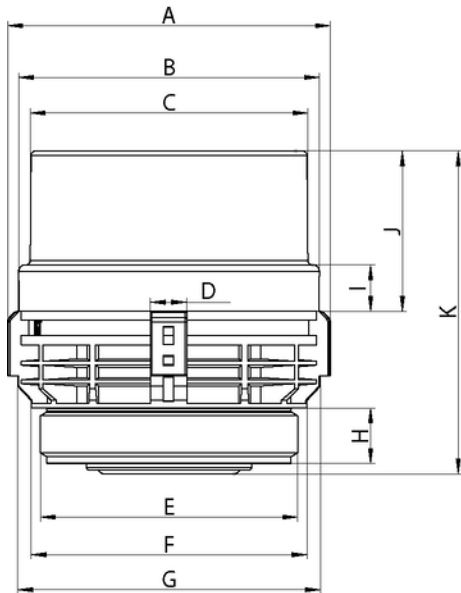
Device statuses and consumption values are shown on the LC display in a display loop.



- (A) Error code (2 sec)
- (B) Error date (2 sec)
- (C) cum. volume (5 sec)
- (D) Segment test: Display on/off (0,5 sec)
- (E) last due date (5 sec)
- (F) Consumption until last due date (5 sec)
- (G) Checksum (2 sec)
- (H) Radio mode (2 sec)
- (I) displayed only in the event of an error
- (J) can be shown and hidden via parameterisation software

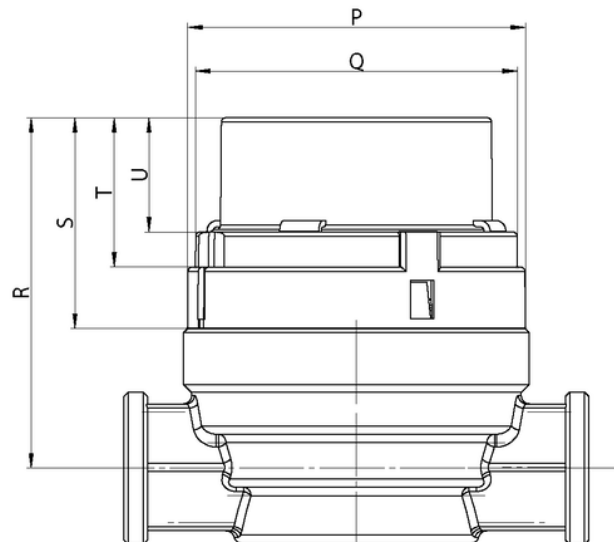
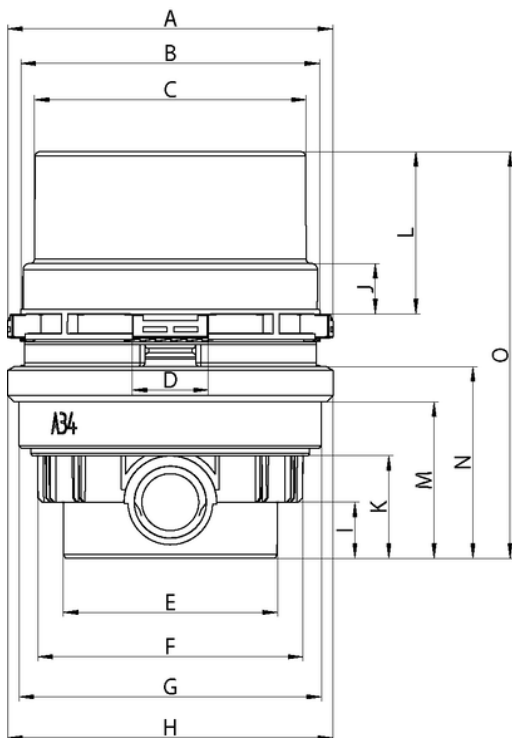
## Dimensional drawings

### Type IST



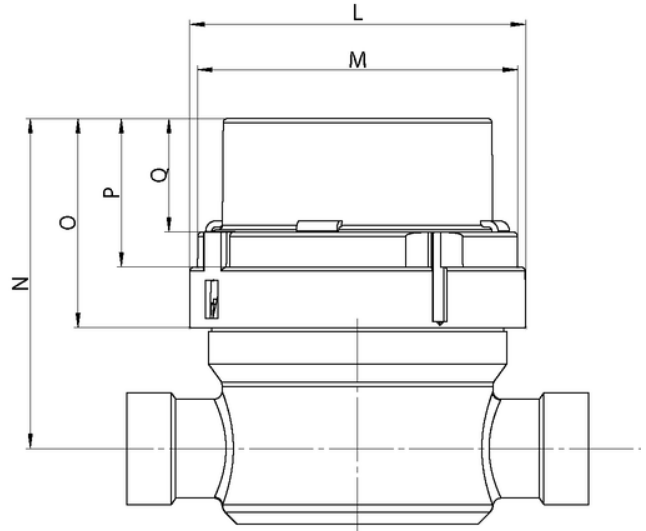
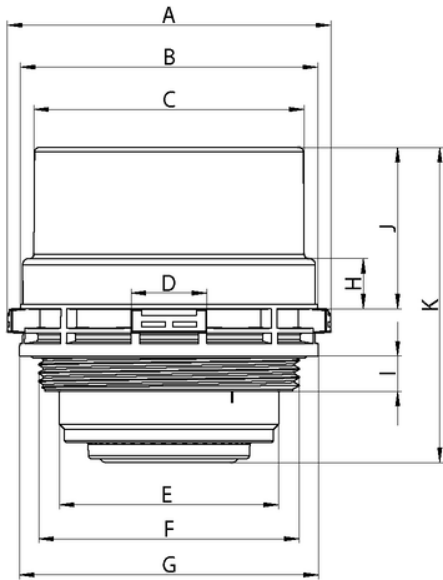
Dimensions see page 12

### Type A34



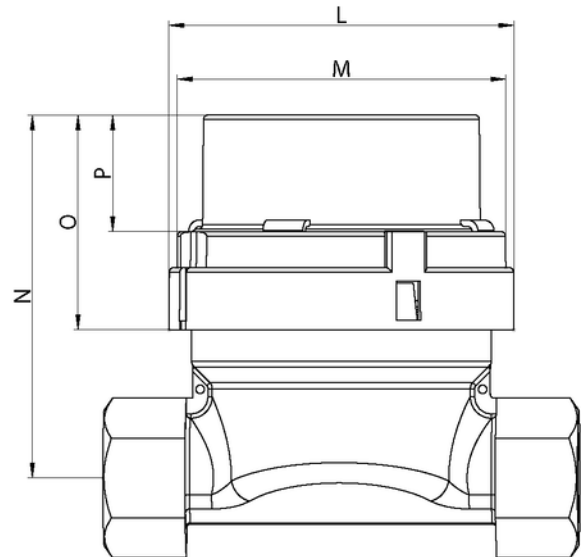
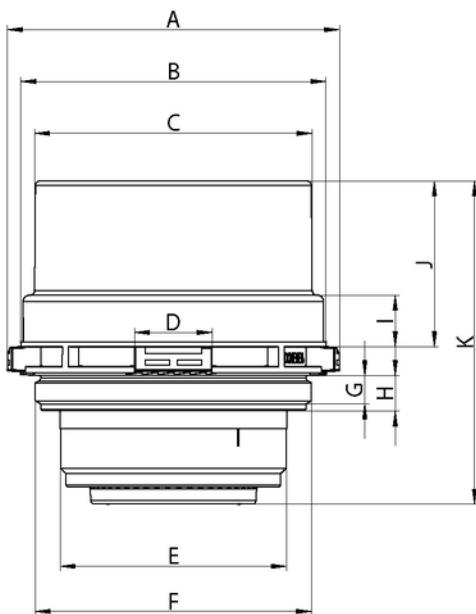
Dimensions see page 12

## Type TE1



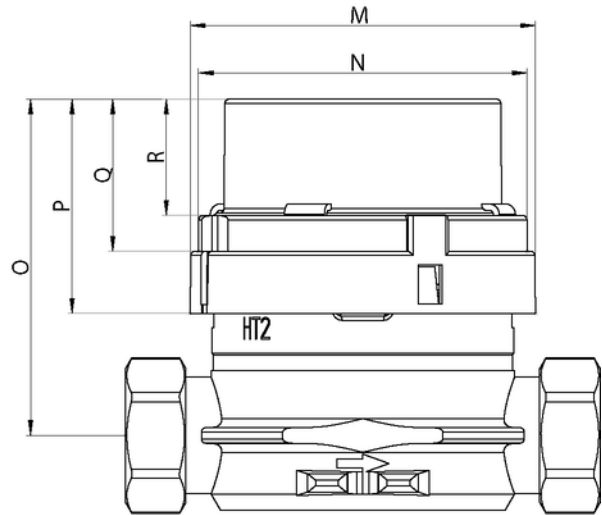
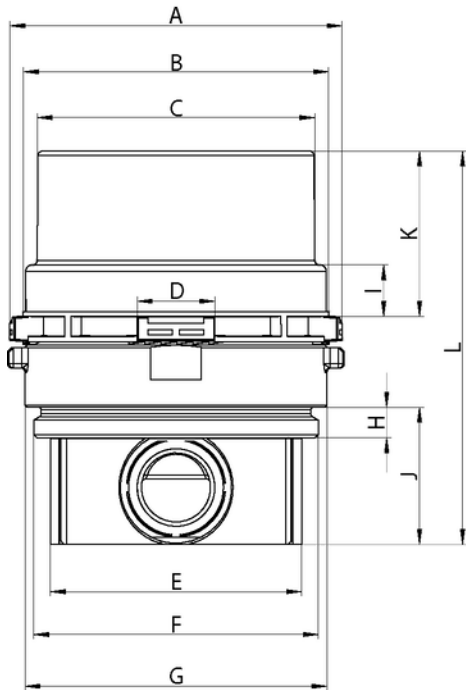
Dimensions see page 12

## Type MOC, Type MET



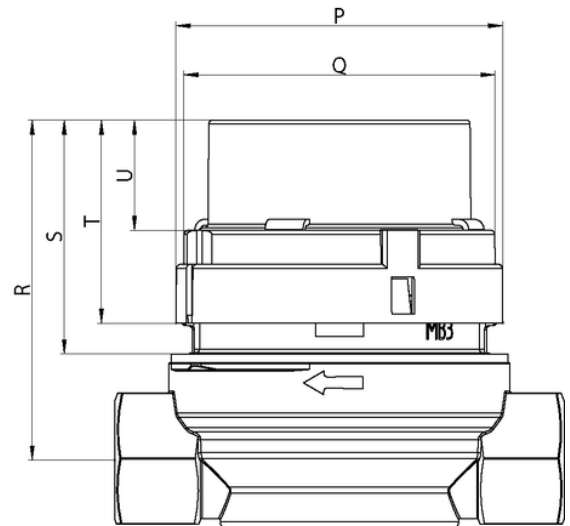
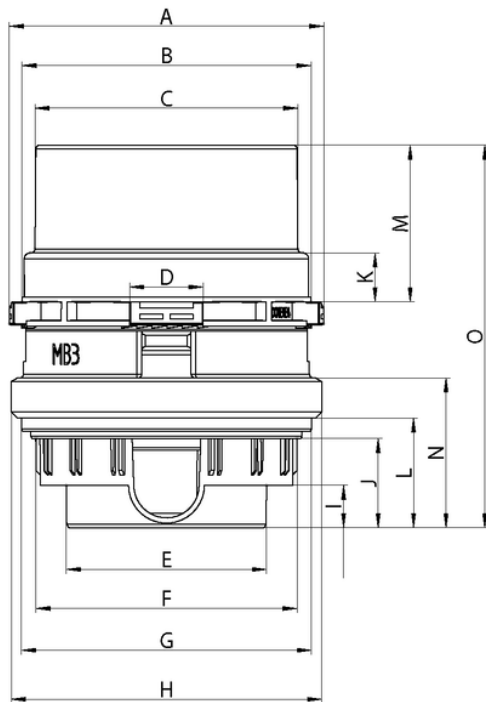
Dimensions see page 12

## Type HT2



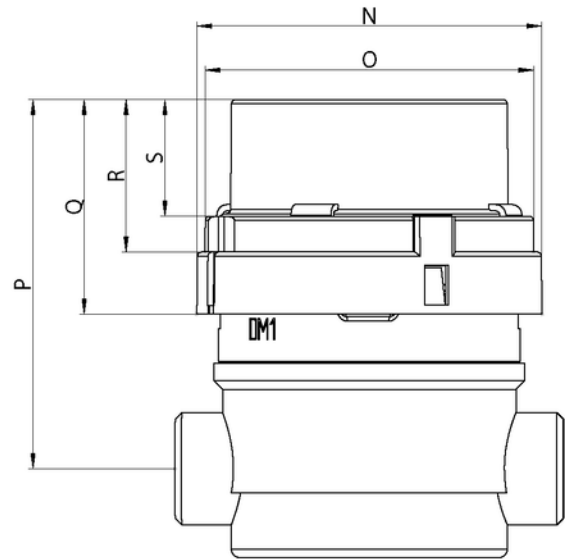
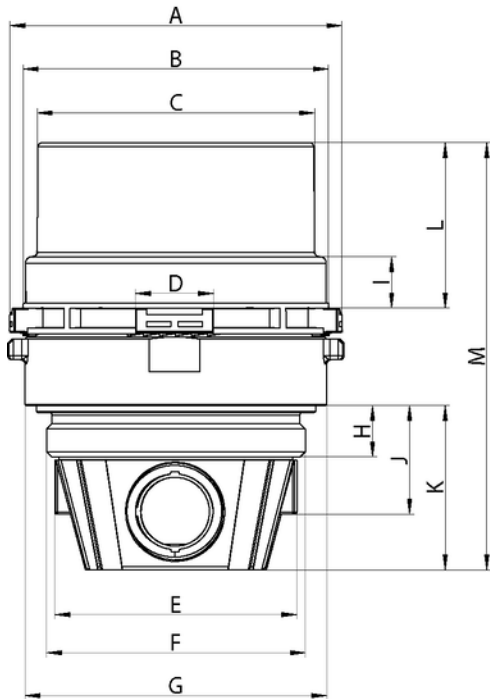
Dimensions see page 12

## Type MB3



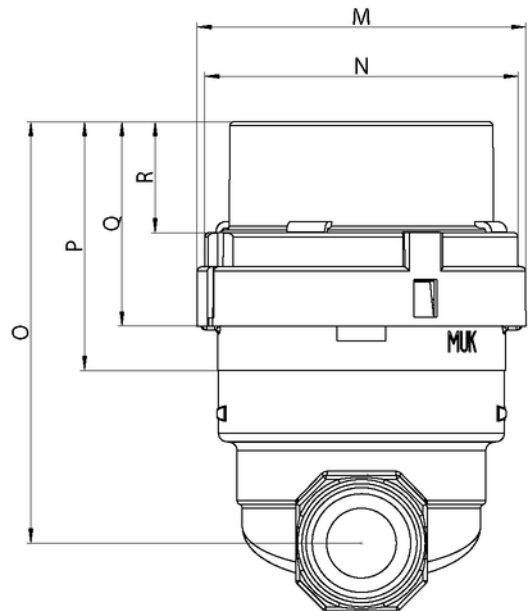
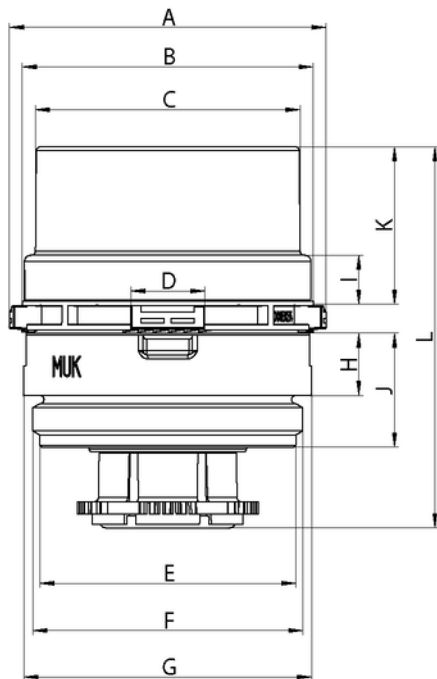
Dimensions see page 12

## Type DM1



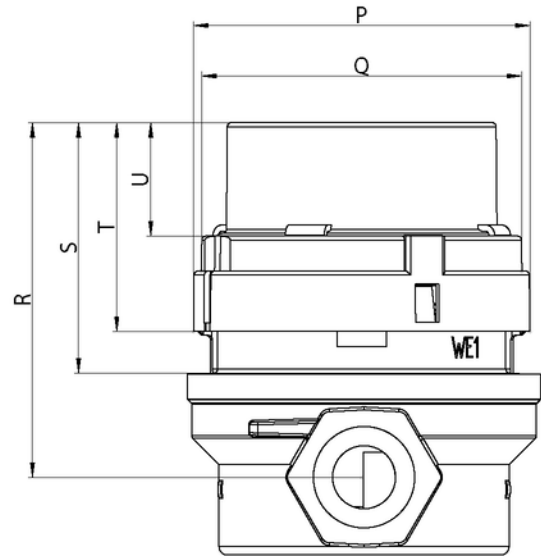
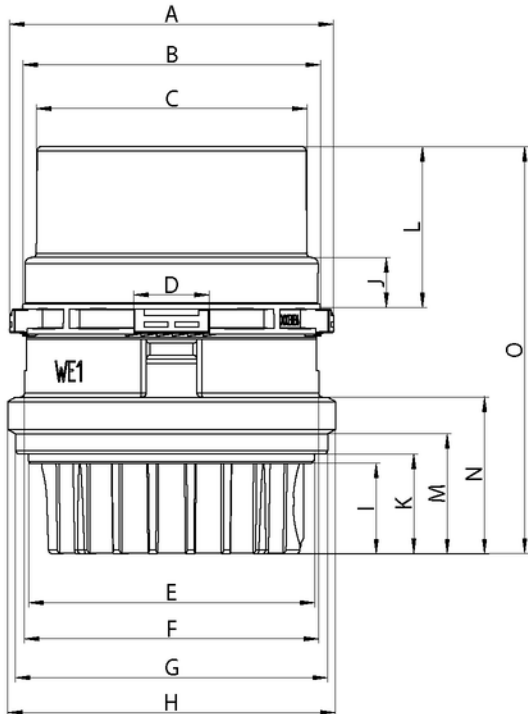
Dimensions see page 12

## Type MUK



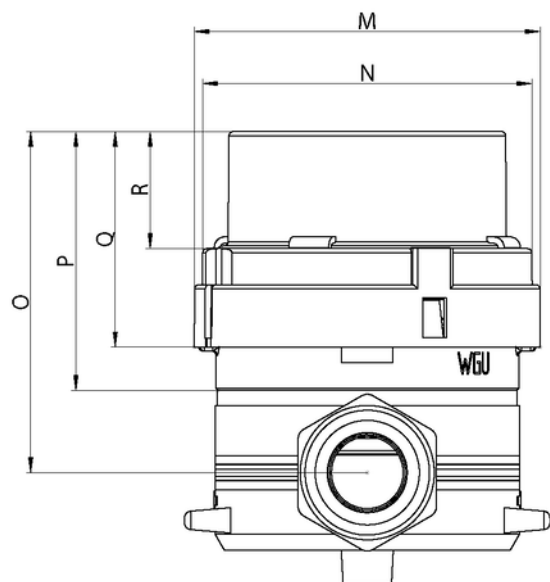
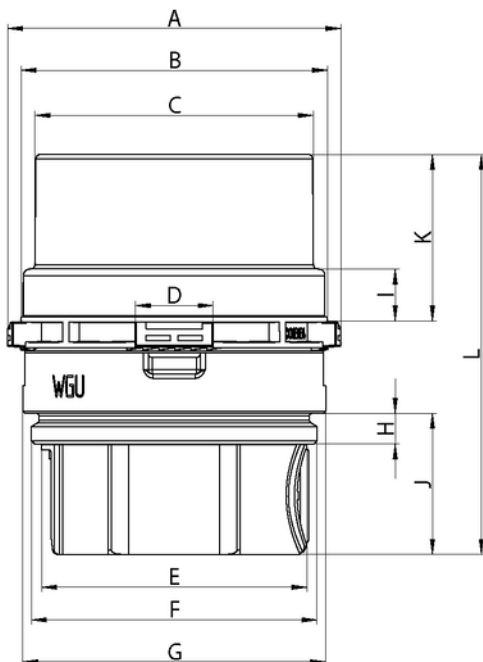
Dimensions see page 12

## Type WE1



Dimensions see page 12

## Type WGU



Dimensions see page 12

## Dimensions

All dimensions in mm

	IST	A34	TE1	MOC	MET
A	74.8	Ø 77.0	Ø 77.0	Ø 77.0	Ø 77.0
B	Ø 69.7	Ø 70.8	Ø 70.8	Ø 70.8	Ø 70.8
C	Ø 64.4	Ø 64.4	Ø 64.4	Ø 64.4	Ø 64.4
D	8.4	18.0	18.0	18.0	18.0
E	G 2	Ø 50.7	Ø 52.2	Ø 52.5	Ø 52.5
F	Ø 64.0	Ø 62.8	M62x2	M65x2	M64x2
G	Ø 70.1	Ø 71.6	Ø 71.2	6.6	6.6
H	12.9	M77x1.5	11.9	8.2	8.2
I	10.8	13.3	8.4	11.9	11.9
J	37.2	11.9	38.8	38.3	38.3
K	74.9	24.3	74.9	74.8	74.8
L	Ø 80.0	38.3	Ø 80.0	Ø 80.0	Ø 80.0
M	Ø 76.2	37.0	Ø 76.2	Ø 76.2	Ø 76.2
N	89.1	45.3	78.5	84.0	84.0
O	59.6	96.1	49.7	49.7	49.7
P	35.3	Ø 80.0	35.3	27.0	27.0
Q	27.0	Ø 76.2	27.0	-	-
R	-	82.8	-	-	-
S	-	49.8	-	-	-
T	-	35.3	-	-	-
U	-	27.0	-	-	-

	HT2	MB3	DM1	MUK	WE1	WGU
A	Ø 77.0	Ø 77.0	Ø 77.0	Ø 77.0	Ø 77.0	Ø 77.0
B	Ø 70.8	Ø 70.8	Ø 70.8	Ø 70.8	Ø 70.8	Ø 70.8
C	Ø 64.4	Ø 64.4	Ø 64.4	Ø 64.4	Ø 64.4	Ø 64.4
D	18.0	18.0	18.0	18.0	18.0	18.0
E	Ø 58.2	Ø 49.0	56.1	Ø 62.3	Ø 68.0	Ø 61.3
F	M66x1	Ø 63.9	M60x2	G 2 1/4	Ø 70.0	M66x1.25
G	Ø 70.0	Ø 71.0	Ø 70.0	Ø 70.0	Ø 74.3	Ø 70.0
H	7.1	M76x1.5	11.9	15.2	M78x1.5	7.1
I	11.9	10.4	11.9	11.9	21.5	11.9
J	31.8	21.8	25.2	27.8	11.9	32.5
K	38.3	11.9	38.1	38.3	23.6	38.3
L	91.2	26.8	38.3	92.7	38.3	92.2
M	Ø 80.0	38.3	99.0	Ø 80.0	28.6	Ø 80.0
N	Ø 76.2	36.6	Ø 80.0	Ø 76.2	37.3	Ø 76.2
O	78.0	93.6	Ø 76.2	102.5	96.7	78.7
P	49.7	Ø 80.0	85.5	60.5	Ø 80.0	59.7
Q	35.3	Ø 76.2	49.7	49.7	Ø 76.2	49.7
R	27.0	83.2	35.3	27.0	84.4	27.0
S	-	57.2	27.0	-	59.6	-
T	-	49.7	-	-	49.7	-
U	-	27.0	-	-	27.0	-

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