

- **Particularly low pressure loss**
- **Pulse generation at extremely low flow rates**
- **Accepts short duration loads at any pressure**
- **For horizontal installation**



Contact-type water meters serve for volumetric measurement of flow amounts, and to control proportional metering systems. They are intended for horizontal installation in piping systems and are suitable for registering the slightest amounts of water drawn. The contact water meters detailed below are notable for their excellent measurement service life even under extreme stresses tending to  $Q_{max}$  and  $Q_{min}$ , as well as through a low pressure loss. Each contact-type water meter is designed for

a minimum permissible operation pressure of PN 10 according to German DIN 2401. On special request, the contact water meter can be supplied in hot-water or VE water versions. The max. permissible contact load is 24 V (protective low voltage) and 0.2 A. Contact water meters are generally fitted with a roller-type counting mechanism.

## Technical Data:

### Contact Water Meter DN 20 - 40

Nominal width	DN mm/inch	20/G <sup>3</sup> / <sub>4</sub>	25/G 1	40/G1 <sup>1</sup> / <sub>2</sub>
Rated flow new designation	Q <sub>n</sub> m <sup>3</sup> /h	2.5	6	10
Flow with 1 bar pressure loss	m <sup>3</sup> /h	7	12	24
Maximum flow	Q <sub>max</sub> m <sup>3</sup> /h	5	12	20
Separating limit	Q <sub>t</sub> l/h	250	500	1000
Lower measuring range limit	Q <sub>min</sub> l/h	30	70	100

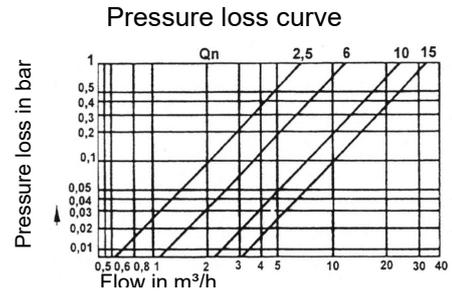
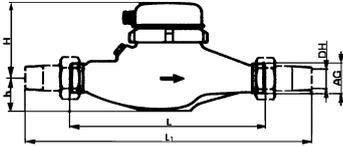
### Contact Water Meter DN 50, DN 80 (flange version)

Nominal width	DN mm	50	80
Rated flow	Q <sub>n</sub> m <sup>3</sup> /h	15	40
Flow with 0.1 bar pressure loss	m <sup>3</sup> /h	34	44
Maximum flow (short term)	Q <sub>max</sub> m <sup>3</sup> /h	30	110
Separating limit	Q <sub>t</sub> m <sup>3</sup> /h	1.5	6
Lower measuring range limit	Q <sub>min</sub> m <sup>3</sup> /h	0.1	0.8

**Further pulse sequences available on request!**

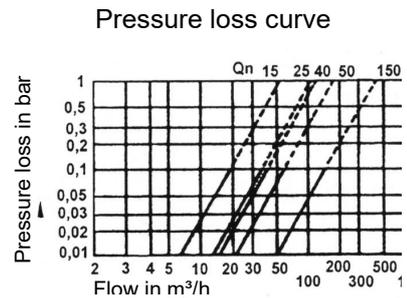
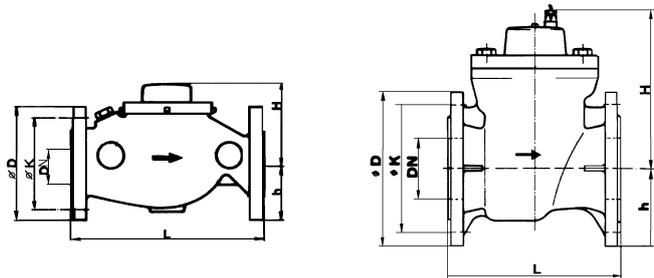
**Dimensions:**

**DN 20-50**



	DN mm	<b>20</b>	<b>25</b>	<b>40</b>
Nominal width	DN mm	<b>20</b>	<b>25</b>	<b>40</b>
Connecting thread on meter	AG inch	G 1 B	G 1 1/4 B	G 2 B
Connecting thread on union	inch	G 3/4	G 1	G 1 1/2
Overall length	L mm	190	260	300
(with threaded union)	L <sub>1</sub> mm	288	378	438
Height	H mm	110	115	133
	h mm	41	44	46
Width	A mm			
	B mm	96	104	136
Weight without threaded union	kg	1.8	2.8	5.4
Weight with threaded union	kg	2.2	3.4	6.6

**DN 50, DN 80**



	DN mm	<b>50</b>	<b>80</b>
Nominal width	DN mm	<b>50</b>	<b>80</b>
Ext. Ø flange connection	D mm	165	200
Hole circle Ø	K mm	125	160
DIN 2501 / PN 16 no. of screws each.		4	8 (4)
Height	H mm	150	221
	h mm	83	102
Length as per DIN 19625	L mm	270	300
Weight	kg	12.4	25.5

## Ordering Data:

Article	Material No.
<b>Contact water meter</b>	
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 1 l/pulse, 130 mm face-to-face length, electric connection: terminal	419901041
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 1 l/pulse, 190 mm face-to-face length, electric connection: terminal	419901236
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 1 l/pulse, 190 mm face-to-face length, electric connection: terminal, with injection hole	419901201
<b>DN 25</b> , $Q_n = 6 \text{ m}^3/\text{h}$ , pulse interval: 1 l/pulse, 260 mm face-to-face length, electric connection: terminal	419901237
<b>DN 40</b> , $Q_n = 10 \text{ m}^3/\text{h}$ , pulse interval: 2 l/pulse, 300 mm face-to-face length, electric connection: terminal	419901238
<b>DN 50 (flange version)</b> , $Q_n = 15 \text{ m}^3/\text{h}$ , pulse interval: 2.5 l/pulse, 270 mm face-to-face length, electric connection: terminal	on request
<b>DN 80 (flange version)</b> , $Q_n = 40 \text{ m}^3/\text{h}$ , pulse interval: 10 l/pulse, 300 mm face-to-face length, electric connection: terminal	419901231

**Other pulse versions on request!**

## Special versions of contact water meters

Article	Material No.
<b>Ultrasonic flow meters with special pulse sequences or hot water version:</b>	
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 0.1 l/pulse, 190 mm face-to-face length, electric connection: fixed cable 2.5 m, temperature up to 90 °C	419901050
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 0.15 l/pulse, 190 mm face-to-face length, electric connection: fixed cable 2.5 m, temperature up to 90 °C	419901051
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 0.5 l/pulse, 130 mm face-to-face length, electric connection: fixed cable 2.5 m, temperature up to 90 °C	419901052
<b>Contact water meter hot water version:</b>	
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 1 l/pulse, 190 mm face-to-face length, electric connection: terminal, temperature up to 120 °C	419901044
<b>Contact water meter with internal coating (for demineralised water):</b>	
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 1 l/pulse, 190 mm face-to-face length, internal coating: PTFE, electric connection: fixed cable 2.5 m	419901243
<b>Contact water meter riser tube version:</b>	
<b>DN 20</b> , $Q_n = 2.5 \text{ m}^3/\text{h}$ , pulse interval: 0.25 l/pulse, 190 mm face-to-face length, electric connection: terminal, riser tube version	419901039