



- 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  $Q_{\text{max}}$  and  $Q_{\text{min}}$ , 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 - 50

Nominal width	DN mm/in	ich	20/R <sup>3</sup> / <sub>4</sub>	25/R 1	40/R1 <sup>1</sup> / <sub>2</sub>	50/flange
Rated flow new designation	$Q_n m^3/h$		2.5	6	10	15
Flow with 1 bar pressure loss	m³/h		7	12	24	34
Maximum flow	Q <sub>max</sub> m <sup>3</sup> /H		5	12	20	30
Separating limit	$Q_t I/h$		250	500	1000	1500
Lower measuring range limit	Q <sub>min</sub> I/h		30	70	100	100
Pulse sequences available on special request:						
	0.25	0.5	1	2	2.5	3
	4	5	10	20	25	30
	40	50	100	200	250	300
	400	500	1000 l/p	oulse		

At pulse sequences of 0.25 to 5 l/pulse the lower measuring range limit changes. Other versions available on request. Slight technical modifications may be introduced in the interests of technical development.

# **Contact Water Meter DN 80 – 150 (flange version)**

Nominal width	DN mm	80	100	150
Rated flow	$Q_n m^3/H$	40	60	150
Flow with 0.1 bar pressure loss	m³/h	44	67	160
Maximum flow (short term)	Q <sub>max</sub> m <sup>3</sup> /h	110	180	350
Separating limit	Q <sub>t</sub> m³/h	6	9	22.5
Lower measuring range limit	Q <sub>min</sub> m³/h	0.8	1.2	2

Pulse sequences available on special request:

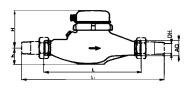
25	10	25	100	250	1000 l/pulse

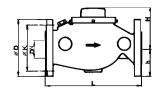


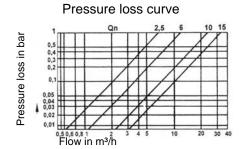


## **Dimensions:**

## DN 20-50

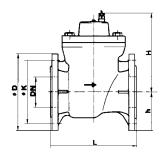




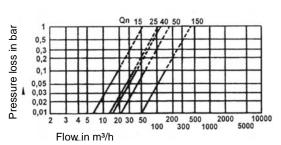


Nominal width Connecting thread on meter Connecting thread on union	DN mm AG inch inch	<b>20</b> G 1 B R <sup>3</sup> / <sub>4</sub>	<b>25</b> G 1 <sup>1</sup> / <sub>4</sub> B R 1	<b>40</b> G 2 B R 1½	50
Ext. Ø D mm flange connection					165
Hole circle Ø K mm					125
No. of screws each					4
Overall length	L mm	190	260	300	270
(with threaded union)	L <sub>1</sub> mm	288	378	438	
Height	H mm	110	115	133	150
-	h mm	41	44	46	83
Width	A mm				
	B mm	96	104	136	165
Weight without threaded union	kg	1.8	2.8	5.4	12.4
Weight with threaded union	kg	2.2	3.4	6.6	

# DN 80 - 150



#### Pressure loss curve



Nominal width	DN mm	80	100	150
Ext. Ø flange connection Hole circle Ø	D mm K mm	200 160	220 180	285 240
DIN 2501 / PN 16 no. of screws each.		8 (4)	8	
Height	H mm h mm	221 102	226 116	400 155
Length as per DIN 19625	L mm	300	360	500
Weight	kg	25.5	31.5	79.5





# **Ordering Data:**

The thread sizes indicated below refer to the dimensions of the water meter's screw connections.

Article		Material No.
Contact water meter DN 20,	$Q_n = 2.5 \text{ m}^3/\text{h}$ , 1 I / pulse, 130 mm face-to-face length	419901041
	$Q_n = 2.5 \text{ m}^3/\text{h}$ , 1 l / pulse, 190 mm face-to-face length	419901236
	$Q_n = 2.5 \text{ m}^3/\text{h}$ , 1 l / pulse, with injection hole	419901201
Contact water meter DN 25,	1 I / pulse	419901237
Contact water meter DN 40,	21/pulse	419901238
Contact water meter DN 50	2.5 I / pulse	419901233
Contact water meter DN 80	10 l / pulse	419901231
Contact water meter DN 100	10 l / pulse	419901220
Contact water meter DN 150	25 I / pulse	on request

Other pulse versions on request!





## Special versions of contact water meters

Article		Material No.		
Special impulse sequences:				
Contact water meter DN 20,	$Q_n = 0.50 \text{ m}^3/\text{h}, 0.06 \text{ I} / \text{pulse}$	233627		
	$Q_n = 0.75 \text{ m}^3/\text{h}, 0.10 \text{ I} / \text{pulse}$	419901028		
	$Q_n = 0.75 \text{ m}^3/\text{h}, 0.15 \text{ I} / \text{pulse}$	419901029		
Hot water version:				
Hot water meter DN 20,	$Q_n$ = 2.5 m³/h, 0.5 l / pulse, 130 mm face-to-face length up to max. 90° C, incl. of water meter screw connection one-sided with injection hole G $\frac{1}{4}$	419901235		
	$Q_n$ = 2.5 m³/h, 1 l / pulse, 130 mm face-to-face length, up to max. 90° C	419901239		
	$Q_n$ = 2.5 m³/h, 1 l / pulse, 190 mm face-to-face length, up to max. 120° C	419901044		
Nickel electroplated version:				
Contact water meter nickel-p	419901234			
Contact water meter nickel-plated DN 25, $Q_n = 6 \text{ m}^3/\text{h}$ , 1 I / pulse		419901240		
Riser tube version:				
Riser tube meter DN 20,	$Q_n = 2.5 \text{ m}^3/\text{h}, 0.25 \text{ I} / \text{pulse}$	419901039		



# Contact Water Meter Accessories



#### **Accessories:**

