



## Domestic water meter for cold water up to 40°C - wet dial transmitter refit

### Multijet – wet dial – roller counter for horizontal and vertical installation

- Universal exchangeable inserts
- High precision up to HR 160 / VR 100
- Completely corrosion-resistant
- Low pressure loss
- Long lifetime
- Maximum pressure load 16 MAP
- MID approved



Riser-pipe execution  
for vertical installation





The conception of the Wasser-Geräte multirange meter complies with the latest fluidic and material technologic findings. Our meters show a solid processing quality and high reliability.

A highly modern injection technique and the usage of quality plastics are the main requirements for this multirange meter generation.

The rectangular, nozzle shaped influx drains of the impeller cup are evenly distributed over the entire surface. Also the efflux drains have an adequate shape and guarantee a high measuring accuracy.

Because of the uncertainty regarding the reliability and reproducibility of water meters, the new DVGW regulation requires to be vigilant about the material composition which possibly may damage the drinking water. Meter housings which do not comply with the DIN 50930-6 are not suitable for drinking water in respect of layer thickness, full-surfacing and adhesion.

## Material

All plastic parts used in our water meters which are in contact with drinking water do have a test certificate acc. to the "KTW Leitlinie" (guideline for the hygienic assessment of organic materials in contact with drinking water) and acc. to the DVGW regulation (W270), which confirm the compliance of the materials from microbiological point of view. The used brass materials comply with the requirements of the DIN 50930-6 and can be found in the regulation of the Federal Environment Agency. Thus, all used materials comply with the requirement of § 17 of the drinking water law (Trinkwasserverordnung).

## The most important at a glance...

- All plastic parts which are in contact with drinking water comply with the requirements of the DVGW spreadsheet W270 and the KTW recommendation.
- The materials used for the housings comply with the requirement of the DIN 50930-6 / EC regulation 98/83/EC and the positive list of the Federal Environment Agency.
- Our multijet meters are MID approved.
- These meters are also suitable for vertical installation.
- Batch identification acc. to the DVGW regulation.



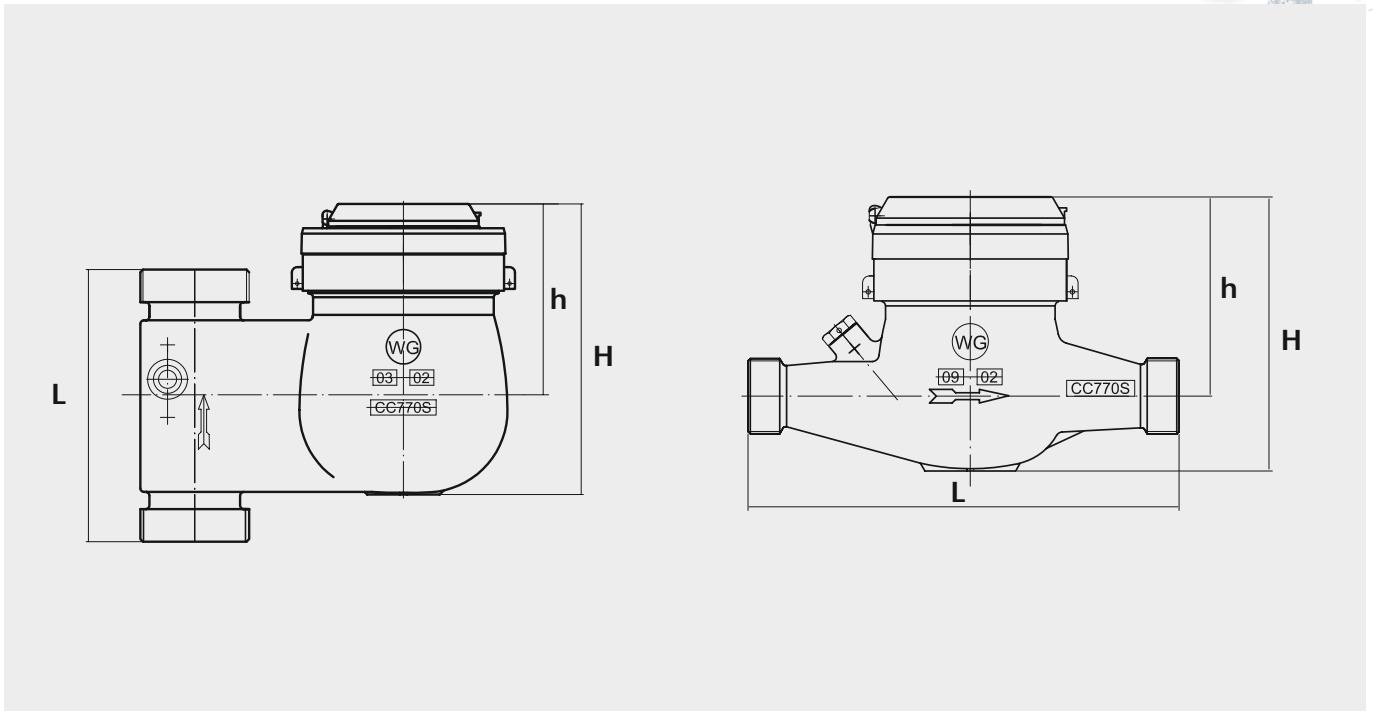


## Technical Data: MNR = Multijet – wet dial – roller counter

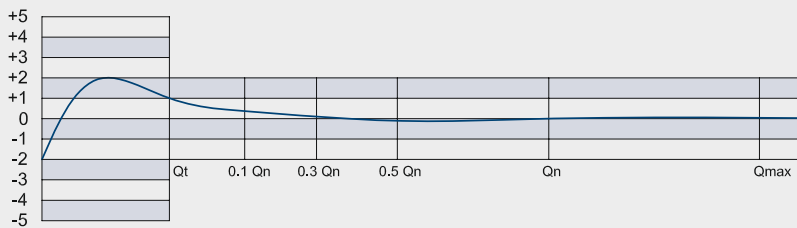
MNR		50			
Temperature	T	50			
Nominal size	DN mm	20	25	40	50
Overall length	L mm	190	260	300	300
Diameter of the counter	B mm	83	92	112	112
Weight	kg	1.44	2,14	3.95	4.56
Height	H mm	110	120	150	150
	h mm	77	81	96	96
Display range	m <sup>3</sup>	99.999		999.999	
Readability	m <sup>3</sup>	0.00005			
Max. admitted pressure		MAP 16			
Admitted compressive stress	bar	from 0.3 to 16			
Pressure loss		Δp 63			
Damping zone		U0/D0			
Admitted installation position		H, V			
Climatic and mechanical environment		Closed areas / from 5°C up to 55°C / mech. class M1			
Minimal flow rate	Q <sub>1</sub> H m <sup>3</sup> /h	0.025	0.0625	0.1	0.1563
	Q <sub>1</sub> V m <sup>3</sup> /h	0.04	0.1	0.16	0.25
Transitional flow rate	Q <sub>2</sub> H m <sup>3</sup> /h	0.04	0.1	0.16	0.25
	Q <sub>2</sub> V m <sup>3</sup> /h	0.064	0.16	0.256	0.4
Permanent flow rate	Q <sub>3</sub> m <sup>3</sup> /h	4	10	16	25
Overload flow rate	Q <sub>4</sub> m <sup>3</sup> /h	5	12.5	20	31.25
Measurement accuracy range	Q <sub>3</sub> / Q <sub>1</sub> H	160			
	Q <sub>3</sub> / Q <sub>1</sub> V	100			
Ratio	Q <sub>2</sub> / Q <sub>1</sub>	1.6			

MNRS		50		
Temperature	T	50		
Nominal size	DN mm	20	25	40
Overall length	L mm	105	150	150
Diameter counter	B mm	83	92	115
Weight	kg	1.92	2.58	4.56
Height	H mm	110	120	161
	h mm	77	81	106
Admitted installation position		H		
Minimal flow rate	Q <sub>1</sub> m <sup>3</sup> /h	0.025	0.062	0.100
Transitional flow rate	Q <sub>2</sub> m <sup>3</sup> /h	0.04	0.100	0.160
Permanent flow rate	Q <sub>3</sub> m <sup>3</sup> /h	4	10	16
Overload flow rate	Q <sub>4</sub> m <sup>3</sup> /h	5	12.5	20
Measurement accuracy range	Q <sub>3</sub> / Q <sub>1</sub>	160		
Ratio	Q <sub>2</sub> / Q <sub>1</sub>	1.6		





### Error curve



### Pressure loss curve

