

## ► Hydrometer multi-jet water meter type MNR for utility water

Cold-water meter for utility water  
– wet runner

### Characteristics

- Multi-jet cold-water meter for utility water
- Suitable for use with cold water up to 30 °C (for short periods safe up to 50 ° C)
- Model MNR for horizontal installation
- Model MNSR for installation in rising pipes
- Sturdy meter
- 'Easy-to-read', mechanical counter
- Available with pulse generator for remote reading
- Approved according to EEC, verified
- Approval classes: A and B
- Protective class: IP65

### Further information

The MNR-series is a multi-jet meter with very low head loss (wet runner). The meter series has an extended measuring range which ensures recording of even very low consumption and long-term accuracy.

The sturdy design of the meter makes it capable of withstanding short-term stress. The built-in strainer can be cleaned without breaking the meter seal.

The MNR meter measures any reflux that may occur and it is absolutely corrosion-resistant.

Meters with pulse outputs are equipped with terminals.



### Models and flow volume

Type	Nominal flow $q_n$ (m <sup>3</sup> /h)
Multi-jet impeller meter	
MNR-K	2.5 · 6 · 10
Multi-jet impeller meter, rising pipe	
MNSR-K	2.5 · 6 · 10
Multi-jet impeller meter, downpipe	
MNRFR-K	2.5 · 6 · 10
Multi-jet impeller meter, 10 litres/pulse	
MNR-K10-K	2.5 · 6 · 10
Multi-jet impeller meter, rising pipe 10 litres/pulse	
MNSR-K10-K	2.5 · 6 · 10

*Brunata is a 100 % Danish owned company. We have more than 85 years of experience within developing and producing heat cost allocators and heating accounts. Brunata has implemented a quality system in accordance with EN ISO 9001. Please contact us for further information on our products.*

## Technical data

Type			MNR			MNSR / MNFR		
Nominal flow rate	$q_n$	m <sup>3</sup> /h	2.5	6	10	2.5	6	10
Maximum flow rate, transitory	$q_{max}$	m <sup>3</sup> /h	5	20	30	5	10	20
Transitory flow rate	$q_t$	l/h	250	600	1000	250	600	1000
Minimum flow rate	$q_{min}$	l/h	20	40	80	20/70	40/160	80/350
Starting	$q_{start}$	l/h	4-6	6-8	20-25	4-6	6-8	20-25
EU accuracy class			B			B/A		
	with pulse output		A			-		
Accuracy of measurement	verification limits	$q_{min}-q_t$	± 5 %					
		$q_t-q_{max}$	± 2 %					
Max temperature	Approval		30 °C					
	Design		50 °C					
Pressure class		Bar	PN16					
Pressure drop $q_n$	$\Delta p$	kPa	15	23	20	15	23	20
Approval no.	Cold-water meter	30 °C	D82/6.131.10	D84/6.131.73		D82/6.131.10	D84/6.131.73	
	Cold-water meter with pulse	30 °C	D82/6.131.42	D98/6.131.04		D82/6.131.42	D98/6.131.04	
Pulse output	Passive reed switch	Litres/pulse	10					

## Dimensions

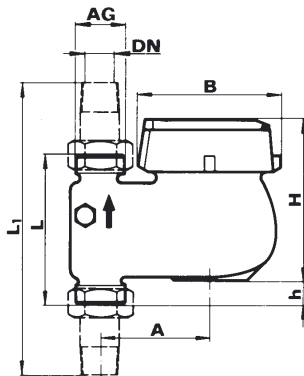
Type		$q_n$	MNR / MNFR			MNSR		
			2.5	6	10	2.5	6	10
Nominal connection		mm	20	25	40	20	25	40
Lenght	L	mm	190	260	300	105	150	200
Lenght with coupling	L1 <sup>*)</sup>	mm	270	378	438	185	268	338
Width	B	mm	96	102	137	98	101	136
	A	mm	-	-	-	82	95	120
Height	H	mm	120	130	150	134	145	157
	h	mm	41	44	46	18	31	21
Connection thread	Meter	Inches	G1B	G1¼B	G2B	G1B	G1¼B	G2B
	Coupling	Inches	R¾	R1	R1½	R¾	R1	R1½
Weight without coupling		kg	2.2	3.4	6.6	1.9	3.2	6.3
Position			Horizontal/vertical downpipe			Vertical rising pipe		

<sup>\*)</sup> Standard coupling, not included when delivered

## Dimensional outline

MNR / MNFR

MNSR



## Head loss graph

