

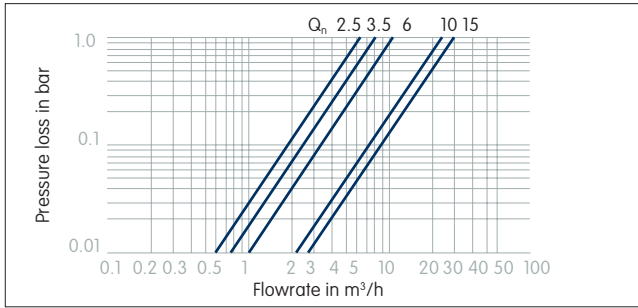
M 100 / M 120 Contact Water Meter (KG)

Prepared for remote metering



Approval	Approval	Approval
Cold water up to 30 °C	Cold water up to 30 °C	Cold water up to 30 °C
D 82	D 98	D 98
6.131.42	6.131.04	6.131.05
M100	M100	M120
Qn 2.5 and 3.5	Qn 6 ... 15	Qn 2.5 ... 15

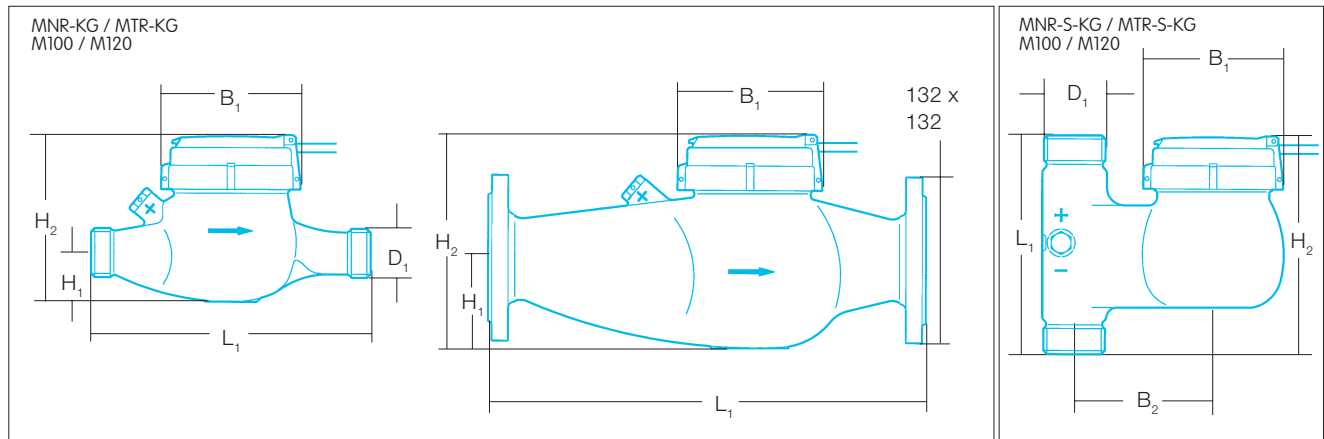
- Multi-jet wet-dial meter M100 MNR-KG and multi-jet dry-dial meter M120 MTR-KG for cold water
- Nominal flowrate Q_n 2.5 ... 15 m³/h
- Type approval metrological class B



Contactor	Reed switch, potted, 1 m cable
Protection class	IP68 (only reed switch)
Connection	Insulating screw joint, any
Contact load	max. 24 V DC, 100 mA
Protective resistor	100 Ohm
Ex-protection	insertable in inherently safe electric circuits, zone 1

Contact water meter			M100/M120						MNR-KG / MTR-KG						MNR-S-KG / MTR-S-KG		
Meter size/Nominal flowrate	Q _n	m ³ /h	2.5	3.5	6	10	15	15	2.5	6	10						
Nominal size	DN	mm	20	25	25	40	50	50	20	25	40						
	DN	inches	3/4	1	1	1 1/2	2	2	3/4	1	1 1/2						
Ordering number (without reedswitch protection)			MNR-KG						MNR-S-KG								
Litres/pulse			0000771	R	0000744	0000753	0000757	0000756	0000761	0000765	0000768						
10	Initial certification class A*		0000772	R	0684023	0684031	0000758	0688614	0000762	0000766	0000769						
100	Initial certification class A*		0000773	R	0618004	0618047	0000759	0688606	0000763	0642509	0000409						
1 000	Initial certification class A*		0000774	R	0618012	0618055	0000760	0694215	0000764	0000767	0000770						
Litres/pulse			MTR-KG						MTR-S-KG								
1			0000777	R	0000785	0000790	0000794	0000799	0000803	0000807	0000811						
10	Initial certification class A*		0000780	R	0743208	0000787	0000791	0000796	0000804	0000808	0000812						
100	Initial certification class A*		0000781	R	0686522	0000788	0000792	0000797	0000801	0000805	0000809						
1 000	Initial certification class A*		0000782	R	0000789	0000793	0000798	0000802	0000806	0000810	0000814						
D ₁ Meter connection thread	ISO 228/1	inches	G 1 B	G 1 1/4 B	G 1 1/4 B	G 2 B	G 2 1/2 B	Flange	G 1 B	G 1 1/4 B	G 2 B						
L ₁ Length	without union	mm	190	260	260	300	270	270	105	150	200						
L ₂ Length	union	mm	50	60	60	70	60	—	50	60	70						
B ₁ Width		mm	100	100	100	100	100	100	100	100	100						
B ₂ Distance	pipe axis to meter axis	mm	—	—	—	—	—	—	80	94	120						
H ₁ Centerline height		mm	31	43	43	46	51	83	—	—	—						
H ₂ Overall height		mm	115	130	130	153	153	160	135	151	195						
Weight	M100/M120	kg	1.5 / 1.6	2.5 / 2.6	2.5 / 2.6	3.7 / 3.8	4.5 / 4.6	8.5 / 8.6	1.8 / 1.9	2.6 / 2.7	5.5 / 5.6						
Performance characteristics																	
Maximum flowrate	Q _{max}	m ³ /h	5	7	12	20	30	30	7	12	20						
Transitional flowrate	Q _t **	l/h	200	280	480	800	500	1 500	200	480	800						
Minimum flowrate	Q _{min} **	l/h	50	70	120	200	450	450	50	120	200						
Continuous load	approx. 1.4 × Q _n	l/h	3 500	4 900	8 400	14 000	21 000	21 000	3 500	8 400	14 000						
Temperature	T _{max}	°C	30	30	30	30	30	30	30	30	30						
Pressure rating	M100/M120	PN	10 / 16	10 / 16	10 / 16	10 / 16	10 / 16	10 / 16	10 / 16	10 / 16	10 / 16						
Flow capacity	at 1 bar pressure loss	m ³ /h	6.7	7.2	12.8	22	32	32	6.7	12	22						

R: on request
 * Class B on request
 ** Typical performance characteristics, exceeds the desposals of metrological class A



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M100M120_D_06.02e / 11.08
 Changes without notice and falcities excepted



Type approval	Class A litres/pulse	Class B litres/pulse
without reedswitch protection	≥ 10	≥ 100
with reedswitch protection	all	≥ 10