

APPLICATION

- Multi-jet impeller meter with pulse output contact for control, metering or remote display of flow rates.

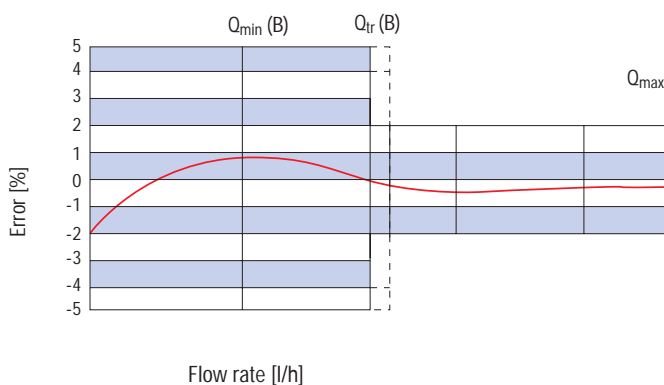
FEATURES

- Cold water up to 30 °C (safe up to 50 °C)
- Horizontal installation
- Installation in rising pipes with housing
- Overall and connection dimensions to DIN ISO 4064
- Nominal diameters DN 20 - 50 mm
- Operating pressure PN up to 10 bar
- Especially low head loss and extended measuring range
- Records very small amounts of water consumption
- Withstands high load for short time periods
- Maximum long-term accuracy
- Forward and return metering
- External fine adjustment by regulating cocks
- Strainer insert in inlet connection for cleaning without damaging the seal
- Measuring data better than specified by calibration regulations
- Easily replaceable pulse contact
- Max. 24 V (SELV), 0.2 A
- Pulse contact with screw connection

NOTE

HYDROMETER model 423/424 contact water meters can be supplied calibrated if required. The meter is tested for compliance with the figures specified in the calibration regulations.

TYPICAL ERROR GRAPH FOR MODELS 423/424



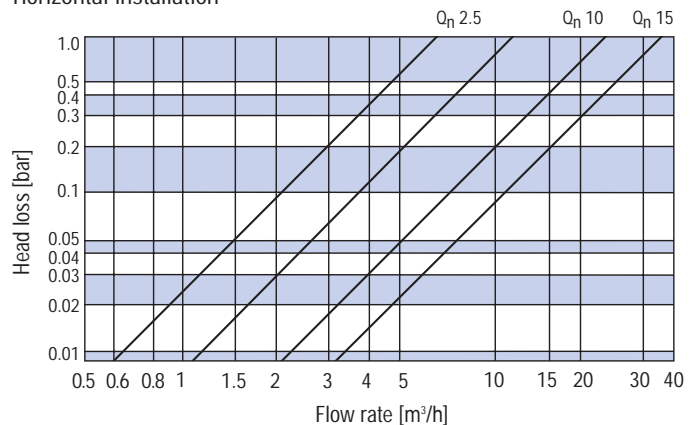
DN 82
6.131.43



DN 83
6.131.45

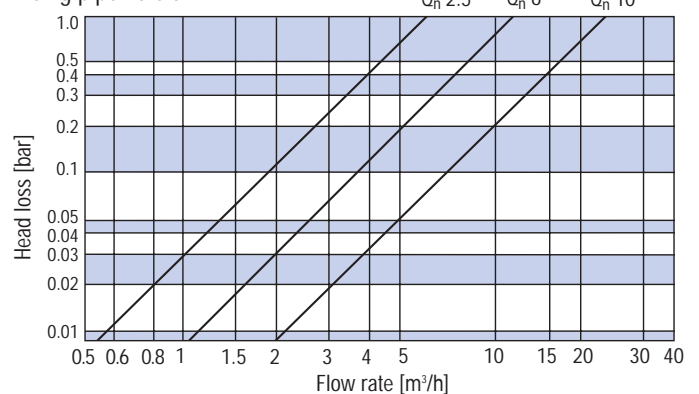
HEAD LOSS GRAPH FOR MODEL 423

Horizontal installation



HEAD LOSS GRAPH FOR MODEL 424

Rising pipe version



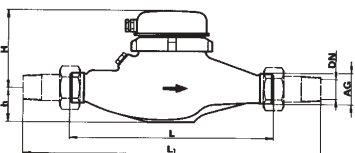
TECHNICAL DATA

Model			423				424			
Type			M-NRK				M-NSRK			
Nominal diameter	DN	mm	20	25	40	50	20	25	40	
Nominal flow rate	Q _n	m ³ /h	2.5	6	10	15	2.5	6	10	
Flow rate at 1 bar head loss		m ³ /h	7	12	24	34	6	12	22	
Maximum flow rate	Q _{max}	m ³ /h	5	12	20	30	5	12	20	
Transition flow rate	Q _t	l/h	250	500	1000	1500	250	500	1000	
Lower measuring range limit	Q _{min}	l/h	30	70	100	100	30	70	100	
Starting flows		l/h	4-6	6-8	20-25	25-30	4-6	6-8	20-25	
Meter thread	old designation	AG	inch	R 1	R 1 1/4	R 2	-	R 1	R 1 1/4	R 2
to ISO 228/1	new designation	AG	inch	G 1 B	G 1 1/4 B	G 2 B	-	G 1 B	G 1 1/4 B	G 2 B
Coupling thread			inch	R 3/4	R 1	R 1 1/2		R 3/4	R 1	R 1 1/2
to DIN 2999 (ISO 7/1)										
Flange to DIN 2501	Outer diameter	∅	-	-	-	165	-	-	-	
	Hole pitch diameter	∅	-	-	-	125	-	-	-	
	Number of bolts	Quantity	-	-	-	4	-	-	-	
Overall length (with coupling)	L	mm	190	260	300	270	105	150	200	
	L1	mm	288	378	438	-	203	268	338	
Height	H	mm	110	115	133	150	148	165	195	
	h	mm	41	44	46	83	15	22	45	
Width	A	mm	-	-	-	-	82	95	120	
	B	mm	96	104	136	165	96	104	136	
Dial indication range			Min. 0.1 l/max. 100,000 m ³							
Weight	without coupling	kg	1.8	2.8	5.4	12.4	1.9	3.2	6.3	
	with coupling	kg	2.2	3.4	6.6	-	2.3	3.8	7.5	

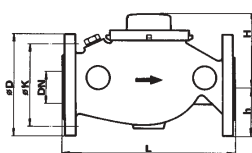
Minor technical changes may occur in the course of further development.

Note: The lower measuring range limit differs for pulse sequences 0.25 to 0.5 litre/pulse.

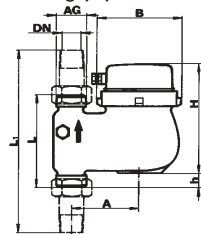
MODEL 423 Screwed version



MODEL 423 Flange version



MODEL 424 Rising pipe version



Available pulse rates (standard):

1 • 10 • 100 litres/pulse

Other pulse sequences available:

0.25 • 0.5 • 2 • 2.5 • 3 • 4 • 5 • 20 • 25 • 30 • 40 •
50 • 200 • 250 • 300 • 400 • 500 • 1000 litres/pulse

Note: The types listed in the order references are standard meters. All versions can of course be supplied as per technical data.

ORDER REFERENCES

Model	Q _n /PN	Type designation	Overall length	Pulse sequence	Connection	*Metrol. cl.	Article number
423	2.5 m ³ /h / 10	M-NRK	190 mm	1 l/pulse	G 1 B	A•H	423 000 02
423	2.5 m ³ /h / 10	M-NRK	190 mm	10 l/pulse	G 1 B	A•H	423 000 06
423	2.5 m ³ /h / 10	M-NRK	190 mm	100 l/pulse	G 1 B	A•H	423 000 09
423	6 m ³ /h / 10	M-NRK	260 mm	1 l/pulse	G 1 1/4 B	A•H	423 000 35
423	6 m ³ /h / 10	M-NRK	260 mm	10 l/pulse	G 1 1/4 B	A•H	423 000 39
423	6 m ³ /h / 10	M-NRK	260 mm	100 l/pulse	G 1 1/4 B	A•H	423 000 44
423	10 m ³ /h / 10	M-NRK	300 mm	1 l/pulse	G 2 B	A•H	423 00078
423	10 m ³ /h / 10	M-NRK	300 mm	10 l/pulse	G 2 B	A•H	423 000 84
423	10 m ³ /h / 10	M-NRK	300 mm	100 l/pulse	G 2 B	A•H	423 000 87
423	15 m ³ /h / 10	M-NRK	270 mm	1 l/pulse	Fl. 50 DIN 2501	A•H	423 00113
423	15 m ³ /h / 10	M-NRK	270 mm	10 l/pulse	Fl. 50 DIN 2501	A•H	423 00118
423	15 m ³ /h / 10	M-NRK	270 mm	100 l/pulse	Fl. 50 DIN 2501	A•H	423 00121
424	2.5 m ³ /h / 10	M-NSRK	105 mm	1 l/pulse	G 1 B	A•H	424 00002
424	2.5 m ³ /h / 10	M-NSRK	105 mm	10 l/pulse	G 1 B	A•H	424 00006
424	2.5 m ³ /h / 10	M-NSRK	105 mm	100 l/pulse	G 1 B	A•H	424 00007
424	6 m ³ /h / 10	M-NSRK	150 mm	1 l/pulse	G 1 1/4 B	A•H	424 00013
424	6 m ³ /h / 10	M-NSRK	150 mm	10 l/pulse	G 1 1/4 B	A•H	424 00017
424	6 m ³ /h / 10	M-NSRK	150 mm	100 l/pulse	G 1 1/4 B	A•H	424 00018
424	10 m ³ /h / 10	M-NSRK	200 mm	1 l/pulse	G 2 B	A•H	424 00023
424	10 m ³ /h / 10	M-NSRK	200 mm	10 l/pulse	G 2 B	A•H	424 00026
424	10 m ³ /h / 10	M-NSRK	200 mm	100 l/pulse	G 2 B	A•H	424 00027

* tested to the metrological class indicated!