Metex Corporation Limited
91 Kelfield St. Unit 4 • Toronto, Ontario • M9W 5A3
Telephone 416-240-1920 • Fax 416-240-7021
Website: www.metexcorporation.com

HYDROMETER

DATA SHEET CONTACT WATER METER M-NRK / M-NSRK
MODEL 423/424

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

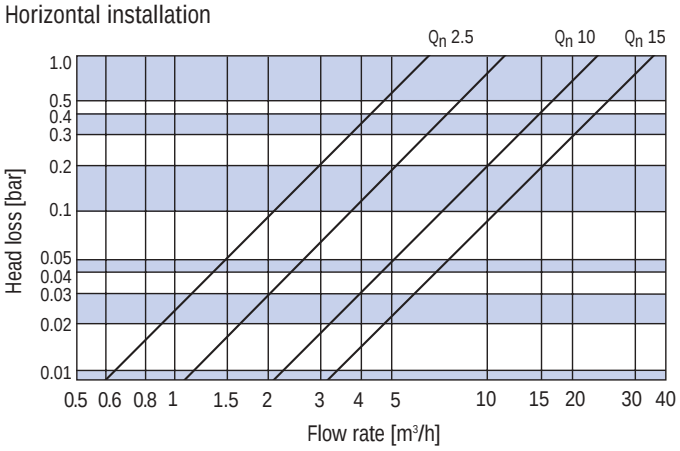
HYDROMETER model 423/424 contact water meters can be supplied calibrated if required. The meter is tested for compliance with the figures specified in the calibration regulations.



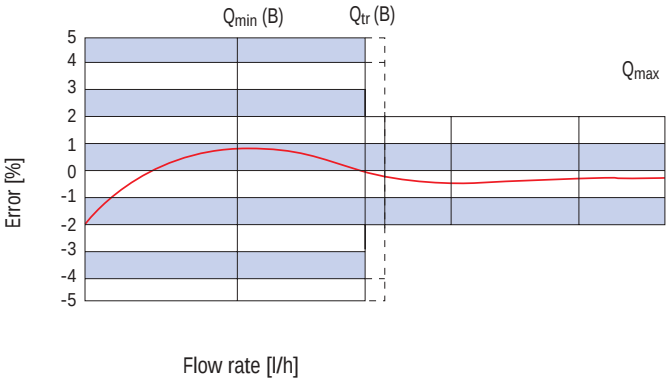


HEAD LOSS GRAPH FOR MODEL 423

Horizontal installation

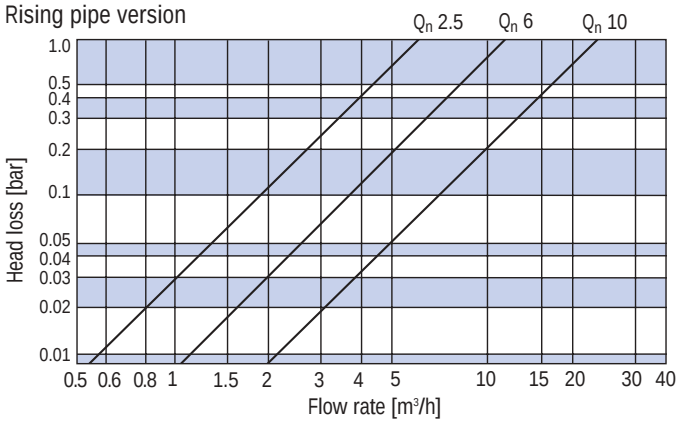


TYPICAL ERROR GRAPH FOR MODELS 423/424



HEAD LOSS GRAPH FOR MODEL 424

Rising pipe version



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MODEL 423/424

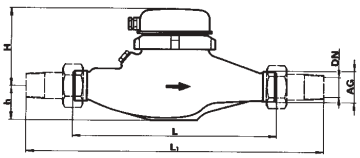
TECHNICAL DATA

Model				423				424		
Type				M-NRK				M-NSRK		
Nominal diameter		DN	mm	20	25	40	50	20	25	40
Nominal flow rate		Qn	m³/h	2.5	6	10	15	2.5	6	10
Flow rate at 1 bar head loss			m³/h	7	12	24	34	6	12	22
Maximum flow rate		Q_{max}	m³/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 1¼	R 2	-	R 1	R 1¼	R 2
to ISO 228/1	new designation	AG	inch	G 1 B	G 1¼ B	G 2 B	-	G 1 B	G 1¼ B	G 2 B
Coupling thread			inch	R ¾	R 1	R 1½		R ¾	R 1	R 1½
to DIN 2999 (ISO 7/1)										
Flange to	Outer diameter		Ø	-	-	-	165	-	-	-
DIN 2501	Hole pitch diameter		Ø	-	-	-	125	-	-	-
	Number of bolts		Quantity	-	-	-	4	-	-	-
Overall length		L	mm	190	260	300	270	105	150	200
(with coupling)		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 m³						
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

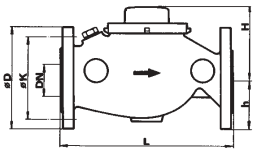
Note: The lower measuring range limit differs for pulse sequences 0.25 to 0.5 litre/pulse.

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

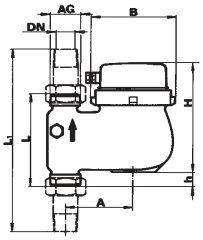
MODEL 423
Screwed version



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 m³/h / 10	M-NRK	190 mm	1 l/pulse	G 1 B	A•H	423 000 02
423	2.5 m³/h / 10	M-NRK	190 mm	10 l/pulse	G 1 B	A•H	423 000 06
423	2.5 m³/h / 10	M-NRK	190 mm	100 l/pulse	G 1 B	A•H	423 000 09
423	6 m³/h / 10	M-NRK	260 mm	1 l/pulse	G 1¼ B	A•H	423 000 35
423	6 m³/h / 10	M-NRK	260 mm	10 l/pulse	G 1¼ B	A•H	423 000 39
423	6 m³/h / 10	M-NRK	260 mm	100 l/pulse	G 1¼B	A•H	423 000 44
423	10 m³/h / 10	M-NRK	300 mm	1 l/pulse	G 2 B	A•H	423 00078
423	10 m³/h / 10	M-NRK	300 mm	10 l/pulse	G 2 B	A•H	423 000 84
423	10 m³/h / 10	M-NRK	300 mm	100 l/pulse	G 2 B	A•H	423 000 87
423	15 m³/h / 10	M-NRK	270 mm	1 l/pulse	Fl. 50 DIN 2501	A•H	423 00113
423	15 m³/h / 10	M-NRK	270 mm	10 l/pulse	Fl. 50 DIN 2501	A•H	423 00118
423	15 m³/h/ 10	M-NRK	270 mm	100 l/pulse	Fl. 50 DIN 2501	A•H	423 00121
424	2.5 m³/h / 10	M-NSRK	105 mm	1 l/pulse	G 1 B	A•H	424 00002
424	2.5 m³/h / 10	M-NSRK	105 mm	10 l/pulse	G 1 B	A•H	424 00006
424	2.5 m³/h / 10	M-NSRK	105 mm	100 l/pulse	G 1 B	A•H	424 00007
424	6 m³/h / 10	M-NSRK	150 mm	1 l/pulse	G 1¼ B	A•H	424 00013
424	6 m³/h / 10	M-NSRK	150 mm	10 l/pulse	G 1¼ B	A•H	424 00017
424	6 m³/h / 10	M-NSRK	150 mm	100 l/pulse	G 1¼ B	A•H	424 00018
424	10 m³/h / 10	M-NSRK	200 mm	1 l/pulse	G 2 B	A•H	424 00023
424	10 m³/h / 10	M-NSRK	200 mm	10 l/pulse	G 2 B	A•H	424 00026
424	10 m³/h / 10	M-NSRK	200 mm	100 l/pulse	G 2 B	A•H	424 00027

* tested to the metrological class indicated!

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