

E-BULK



STATIC METER

E-Bulk is the modern solution for large volume metering in the utility, industrial and commercial sectors. Thanks to the ease of use of ultrasonic technology in these fields, E-Bulk provides excellent levels of performance in all conditions of installation. Its extremely low starting flow rate, its wide measuring range and the absence of moving parts allow the accounting of the entire consumption, making it easier to identify leaks. E-Bulk makes mechanical meters obsolete, particularly combined meters. Robust, long lasting and suitable for the most challenging environments. It can be equipped with the latest remote data transmission technologies.

E-BULK

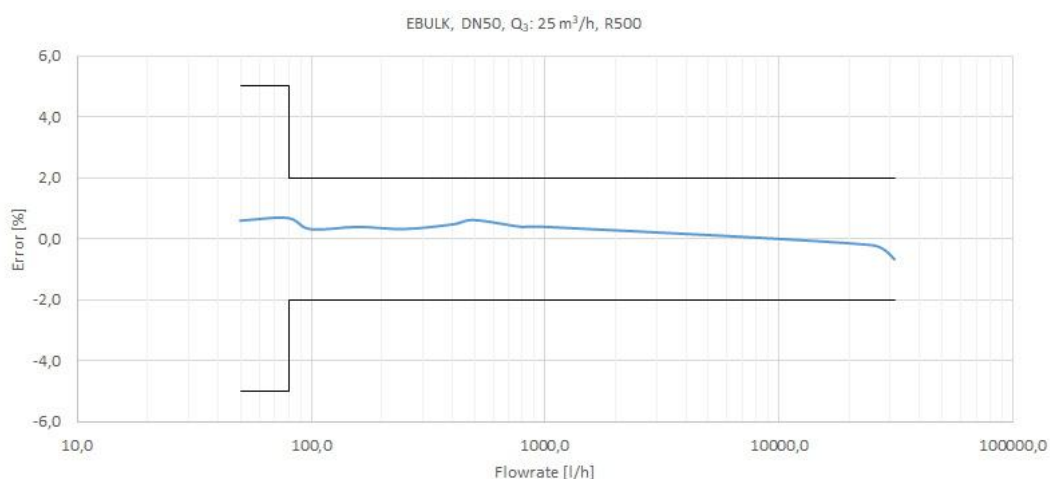
FEATURES

- Ultrasonic meter for cold water
- Ideal for large volumes for utilities and industrial use
- MID-certified: R max 500
- DN: 50÷200*
- Optional 4-20mA analog output, 24V passive
- Health certifications available for a number of countries
- No moving parts
- Can be installed in all positions while maintaining its metrological characteristics
- Large display with information on volume, flow rate and alarms
- IP68 protection rating
- Battery life: 13 years
- Can be provided fitted with wired (Split) or integrated radio communication module (wireless m-Bus)
- Ready for pulse emitter (DN 50÷100) 1P=10L, (DN 125÷200) 1P=100L

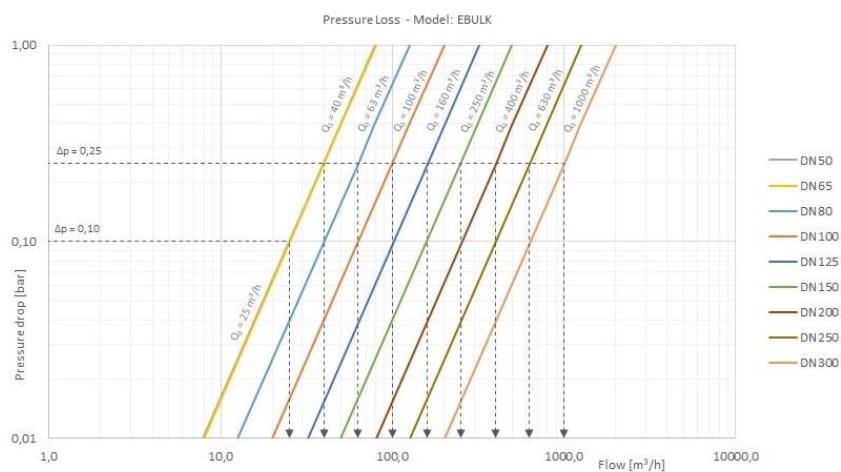


*Up to DN400 on request

TYPICAL ERROR CURVE



HEAD LOSS DIAGRAM



METROLOGICAL PERFORMANCE

Size	mm	50	65	80	100	125	150	200
	in	2	2 ½	3	4	5	6	8

Module B no.	RO-2275-19454
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Module D no.	0119-SJ-A010-08
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Q ₃ /Q ₁ = R	≤ 500
Referred to installation position	

MID standard performance *	
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Q ₃	m ³ /h	25	40	63	100	160	250	400
Q ₄	m ³ /h	31,25	50	78,75	125	200	312,50	500

R	500
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Q ₁	l/h	50	80	126	200	320	500	800
Q ₂	l/h	80	128	201,60	320	512	800	1280

* Other values of R available upon request.

TECHNICAL DATA

Maximum permissible error between Q ₁ and Q ₂ (excluded)	+/- 5%
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Maximum permissible error between Q ₂ (included) and Q ₄	+/- 2% with water temperature ≤ 30°C +/- 3% with water temperature > 30°C
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Temperature class	T30,T50
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Flow profile sensitivity classes	U0 – D0
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Starting flow rate	l/h	10
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Head loss	ΔP25
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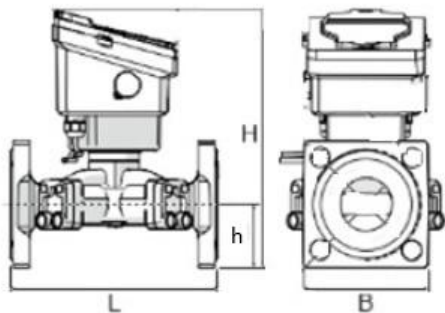
Nominal pressure	bar	16
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Maximum reading	m ³	9.999.999	99.999.999
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Minimum reading	l	1
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Indicative weight	kg	10,3	13	16	17,25	25	28	35
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DIMENSIONS



Size	mm	50	65	80	100	125	150	200
	in	2	2 ½	3	4	5	6	8

L	mm	200/270/300	200/300	225/300/350	250/360	250	300	350
H	mm	245	250	275	290	380	400	470
h	mm	65	70	90	100	125	130	170
B	mm	130	140	180	200	250	285	340

COMMUNICATION MODULES



ARROW^{EVO} 868
SPLIT



ARROW^{WAN} 169
SPLIT



ARROW^{WAN2}
SPLIT



ARROW^{WAN} NB-IoT
SPLIT



For more information on all the accessories available, consult the specific technical data sheets on the website www.maddalena.it