

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.

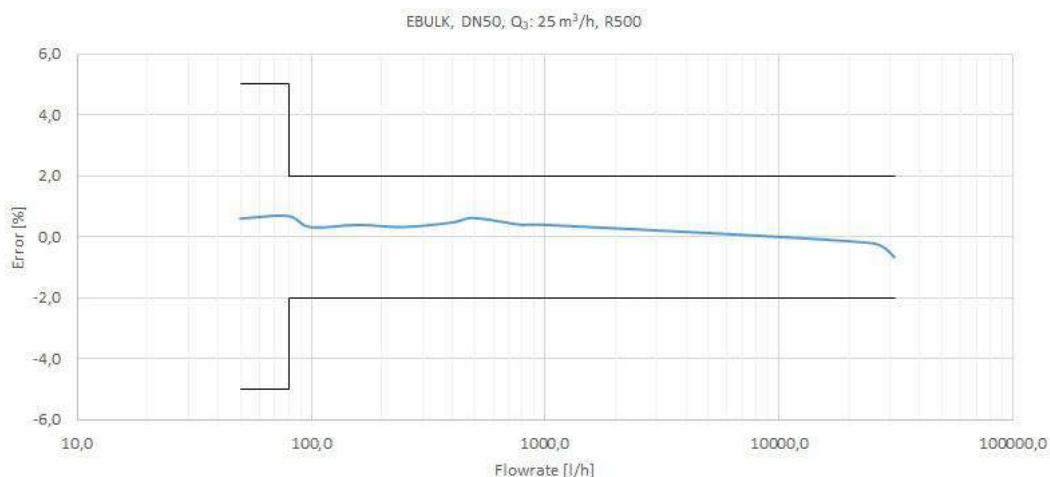
E-BULK

FEATURES

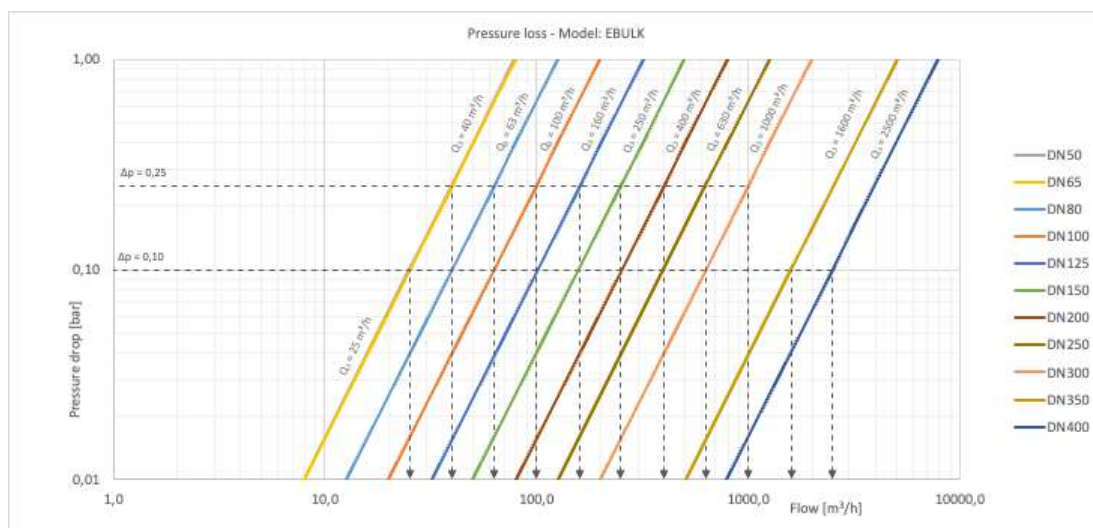
- Ultrasonic meter for cold water
- Ideal for large volumes for utilities and industrial use
- MID-certified: R max 800
- DN: 50÷400
- Optional 4-20mA analog output, 24V passive
- Health certifications available for a number of countries
- No moving parts
- Can be installed in all positions while maintaining 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÷400) 1P=100L



TYPICAL ERROR CURVE



HEAD LOSS DIAGRAM



METROLOGICAL PERFORMANCE

Size	mm	50	65	80	100	125
	in	2	2 ½	3	4	5
Module B no.				RO-2275-19454		
Module D no.				0119-SJ-A010-08		
Q3/Q1=R Referred to installation position				≤ 800		
MID standard performance*						
Q ₃	m³/h	25	40	63	100	160
Q ₄	m³/h	31,25	50	78,75	125	200
R		500				
Q ₁	l/h	50	80	126	200	320
Q ₂	l/h	80	128	201,60	320	512

*Other values of R available upon request

TECHNICAL DATA

Maximum permissible error between Q ₁ and Q ₂ (excluded)			+/- 5%			
Maximum permissible error between Q ₂ (included) and Q ₄			+/- 2% with water temperature ≤ 30°C +/- 3% with water temperature > 30°C			
Temperature class			T30,T50			
Flow profile sensitivity classes			U0 - D0			
Starting flow rate	l/h	21	55	66	70	120
Head loss			ΔP25			
Nominal pressure	bar	16				
Maximum reading	m³	99.999.999				999.999.999
Minimum reading	l	1				
Indicative weight	kg	10,3	13	16	17,25	25

METROLOGICAL PERFORMANCE

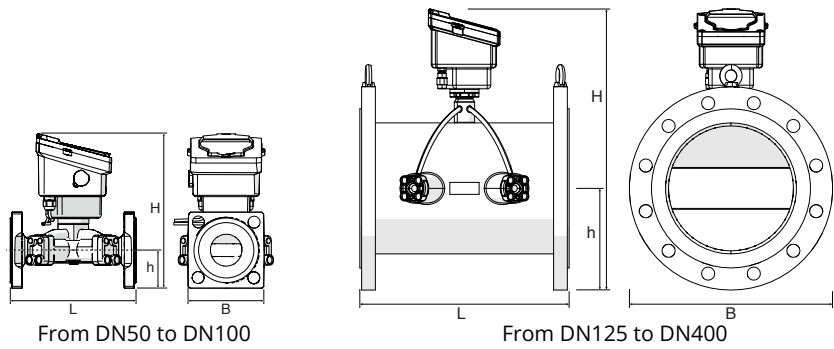
Size	mm	150	200	250	300	350	400
	in	6	8	10	12	14	16
Module B no.				RO-2275-19454			
Module D no.				0119-SJ-A010-08			
Q3/Q1=R Referred to installation position				≤ 800			
MID standard performance*							
Q ₃	m³/h	250	400	630	1000	1600	2500
Q ₄	m³/h	312	500	787	1250	2000	3125
R		500					
Q ₁	l/h	500	800	1260	2000	3200	5000
Q ₂	l/h	800	1200	2016	3200	5120	8000

*Other values of R available upon request

TECHNICAL DATA

Maximum permissible error between Q ₁ and Q ₂ (excluded)				+/- 5%			
Maximum permissible error between Q ₂ (included) and Q ₄				+/- 2% with water temperature ≤ 30°C +/- 3% with water temperature > 30°C			
Temperature class				T30,T50			
Flow profile sensitivity classes				U0 - D0			
Starting flow rate	l/h	120	240	280	320	430	770
Head loss				ΔP25			
Nominal pressure	bar	16					
Maximum reading	m³	999.999.999					
Minimum reading	l	1					
Indicative weight	kg	28	35	67	80	95	125

DIMENSIONS



Size	mm	50	65	80	100	125
	in	2	2 ½	3	4	5

L	mm	200/270/300	200/300	225/300/350	250/360	250
H	mm	245	250	275	290	380
h	mm	65	70	90	100	125
B	mm	172	190	205	230	250

Size	mm	150	200	250	300	350	400
	in	6	8	10	12	14	16

L	mm	300	350	400/450	450/500	500	600
H	mm	400	470	525	575	660	720
h	mm	130	170	198	223	278	310
B	mm	285	340	405	460	520	580

COMMUNICATION MODULES



ARROW^{EVO} 868
SPLIT



M-Bus^{wireless} OMS[®]



ARROW^{WAN2}
SPLIT



M-Bus^{wireless} OMS[®] LoRa^{WAN}



ARROW^{WAN} NB-IoT
SPLIT



NB-IoT

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