



VOLUMETRIC ROTARY PISTON METER

MVM is the water meter for applications in the Utilities sector that guarantees maximum accuracy and reliability in all installation conditions. Its extremely low starting flow rate and its wide measuring range allow the accounting of the entire consumption, making it easier to identify leaks. All thanks to the combination of rotary piston technology and the innovative IP68 copper/glass register. Robust, durable, suitable for the most challenging environments and types of installation. It can be equipped with the latest remote data transmission technologies.

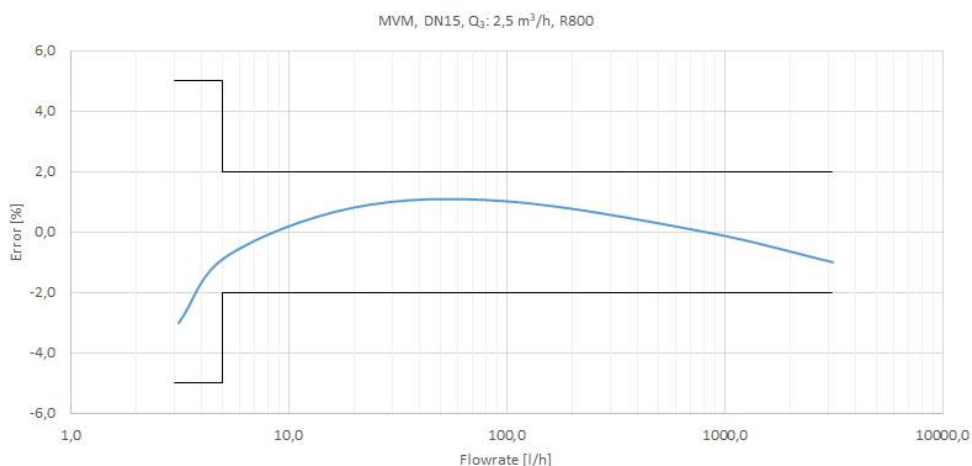
MVM

FEATURES

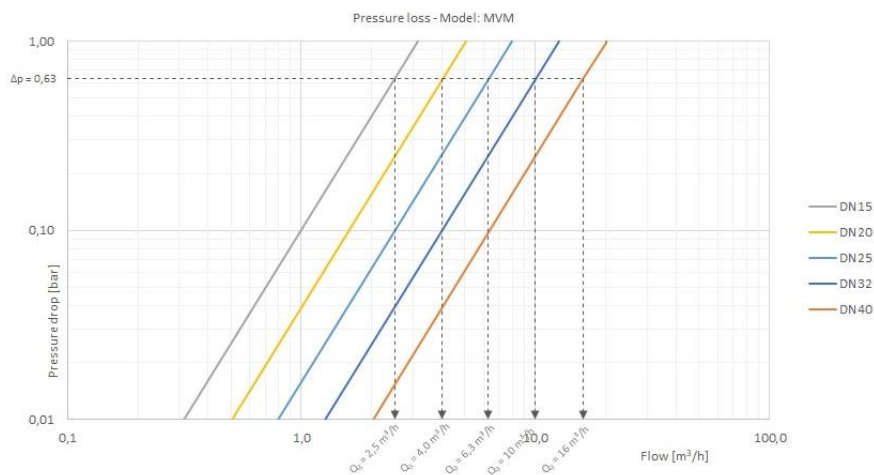
- Volumetric rotary piston meter for cold water
- Ideal for utilities and outdoor installations
- MID-certified: R max 800
- DN: 15÷40
- Health certifications available for a number of countries
- Can be installed in all positions while maintaining its metrological characteristics
- High protection against external magnetic fields
- Sealed register (IP68 copper/glass) to prevent condensation
- The register can be rotated 360°
- Can be provided fitted with wired or radio communication module
- Pre-equipped for static pulse emitter (DN 15÷32) 1P=1L, (DN40) 1P=10L



TYPICAL ERROR CURVE



HEAD LOSS DIAGRAM



METROLOGICAL PERFORMANCE

Size	mm	15	20	25	32	40
	in	½	¾	1	1 ¼	1 ½

Module B no.	TCM 142/10-4742
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Module D no.	0119-SJ-A010-08
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Q ₃ /Q ₁ = R Referred to installation position	Any ≤ 800	Any ≤ 500
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MID standard performance *

Q ₃	m ³ /h	2,5	4	6,3	10	16
Q ₄	m ³ /h	3,13	5	7,88	12,50	20

R 400

Q ₁	l/h	6,25	10	15,75	25	40
Q ₂	l/h	10	16	25,20	40	64

* 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	0,5	1	2,5	4,5	7
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Head loss	ΔP63
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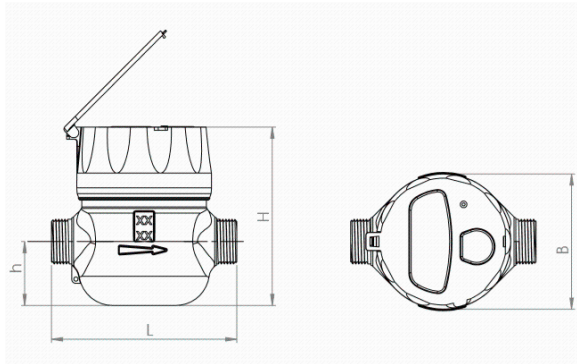
Nominal pressure	bar	16
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Maximum reading	m ³	99.999	999.999	9.999.999
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Minimum reading	l	0,02	0,2
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Indicative weight	kg	0,875	1,230	3,019	4,650	6,480
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DIMENSIONS



Size	mm	15	20	25	32	40
		in	¾	1	1 ¼	1 ½
Thread	in	G ¾ B	1 B	G 1 ¼ B	G 1 ½ B	G 2 B
L	mm	110/130/145/ 165/170	105/130/165/190	260	260	300
H	mm	108	118	132	162	176
h	mm	38	45	63	75	88
B	mm	80	90	129	150	172

COMMUNICATION MODULES

	ARROW ^{EVO} 868	M-Bus ^{wireless}	OMS [®]
	FLOWPULSE		
	ARROW ^{WAN2}	M-Bus ^{wireless}	LoRa ^{WAN}
	ARROW ^{WAN} NB-IoT	NB-IoT	

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