

MVM



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.



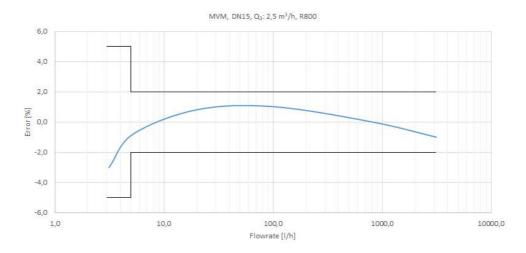
MVM

FEATURES

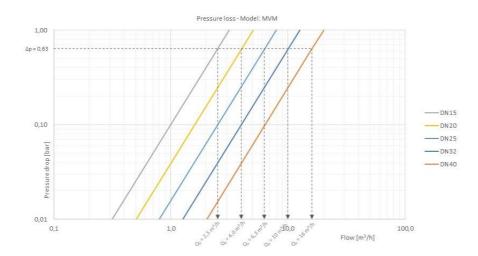
- Volumetric rotary piston meter for cold water
- Ideal for utilities and outdoor installations
- MID-certified: R max 800
- DN: 15÷40
- Health certifications available for a number of countries
- Can be installed in all positions while maintaining its metrological characteristics
- High protection against 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	1/2	3/4	1	1 1/4	1 ½

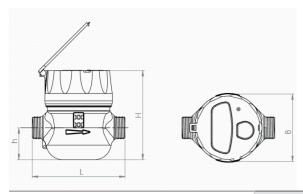
Module B no.		TCM 142/10-4742							
Module D no.		0119-SJ-A010-08							
Q ₃ /Q ₁ = R Referred to installation position		Any≤800 Any							
MID standard performance *									
Q ₃	m³/h	2,	.5	4	6,3	10	16		
Q ₄	m³/h	3,	13	5	7,88	12,50	20		
R		400							
Q ₁	l/h	6,	25	10	15,75	25	40		
Q ₂	l/h	1	0	16	25,20	40	64		

^{*} Other values of R available upon request.

TECHNICAL DATA

Maximum permissible error	+/- 5%							
between Q ₁ and Q ₂ (excluded) 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 I/r	0,5	1	2,5	4,5	7			
Head loss	ΔΡ63							
Nominal pressure ba	bar 16							
Maximum reading m ²		99.999	999.999		9.999.999			
Minimum reading		0,02			0,2			
Indicative weight kg	0,875	1,230	3,019	4,650	6,480			

DIMENSIONS



Size	mm	15	20	25	32	40
	in	1/2	3/4	1	1 1/4	1 ½

Thread in	G ¾ B	1 B	G 1 ¼ B	G 1 ½ B	G 2 B
L mm	105/110/115/ 142/145/165/ 170		260	260	300
H mm	106	126	135	166	176
h mm	37	44	63	77	88
B mm	89	92	129	150	172

COMMUNICATION MODULES



ARROW^{EVO} 868







ARROWWAN 169





ARROWWAN2











FLOWPULSE

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

