MecTo

MVM PLUS

VOLUMETRIC ROTARY PISTON METER

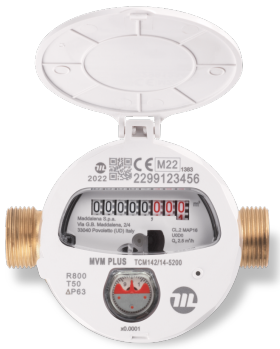
MVM PLUS is the water meter for applications in the Utilities sector that guarantees maximum accuracy and reliability in all installation conditions. Its extremely low starting flow rate and its wide measuring range allow the accounting of the entire consumption, making it easier to identify leaks. Robust, durable, suitable for the most challenging environments and types of installation. Flat-bottom, moulded brass case for easy installation. Its inner cage improves measurement performance and provides better resistance against suspended solids. It can be equipped with the latest remote data transmission technologies.

maddalena®
METERING EXPERTISE

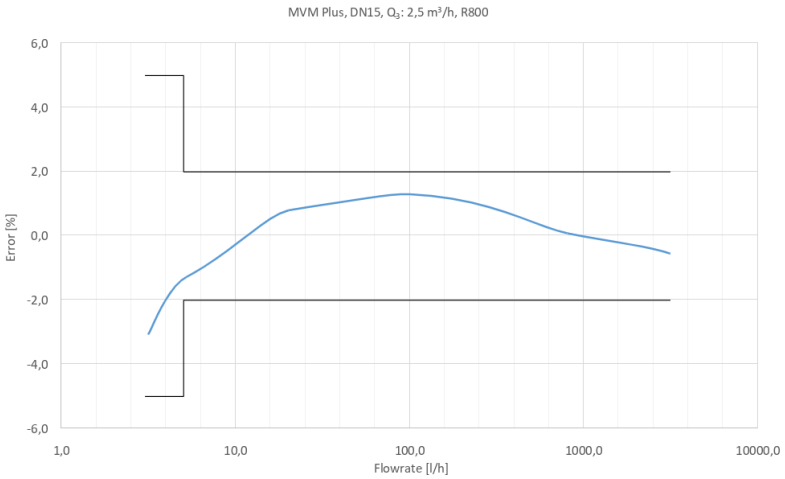
MVM PLUS

FEATURES

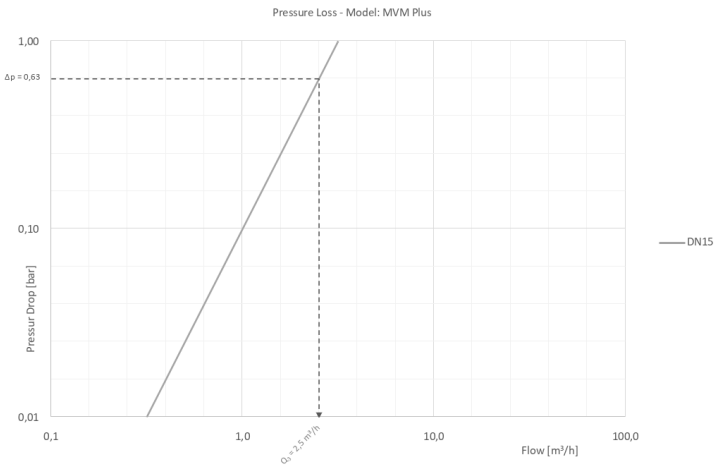
- Volumetric rotary piston meter for cold water
- Ideal for utilities and outdoor installation
- MID–certified: R max 800
- DN: 15
- Health certifications available for a number of countries
- Can be installed in all positions while maintaining its metrological characteristics
- High protection against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



TYPICAL ERROR CURVE



HEAD LOSS DIAGRAM



METROLOGICAL PERFORMANCE

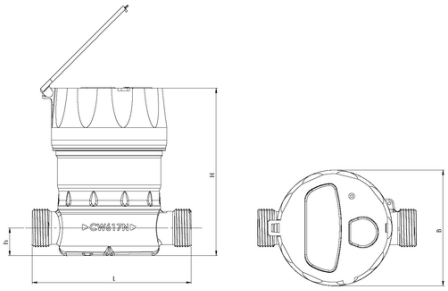
Size	**mm**	15
	in	½
Module B no.		TCM 142/14 – 5200
Module D no.		0119–SJ–A010–08
Q_3/Q_1 = R **Referred to installation position**		Tutte ≤ 800
MID standard performance *		
Q_3	**m^3/h**	2,5
Q_4	**m^3/h**	3,13
R		**400**
Q_1	**l/h**	6,25
Q_2	**l/h**	10

* 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
Temperature class		T30
Flow profile sensitivity classes		U0 – D0
Starting flow rate	**l/h**	0,4
Head loss		ΔP63
Nominal pressure	**bar**	16
Maximum reading	**m^3**	99.999
Minimum reading	**l**	0,02
Indicative weight	**kg**	0,75

DIMENSIONS



Size	**mm**	15
	in	½
Thread	**in**	G ¾ B
L	**mm**	110 / 115 / 145 / 165 / 170
H	**mm**	118,5
h	**mm**	19
B	**mm**	86

COMMUNICATION MODULES

ARROW^{EVO} 868 M-Bus wireless OMS®

FLOWPULSE

ARROW^{WAN2} M-Bus wireless OMS® LoRaWAN

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

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METERING EXPERTISE

Rev. 4 05/26 I Subject to technical modifications | Images for demonstration purposes only: elements may vary