

# DS TRP



## PROTECTED ROLLERS MULTI-JET METER

DS TRP represents the ultimate multijet meter expression. Thanks to its mechanical transmission, it offers high metrological performance and is insensitive to external magnetic fields. Its "protected rollers" solution, first developed by Maddalena, ensures perfect legibility over time. Robust, long lasting and suitable for the most challenging environments, it is compatible with all types of water. It can be equipped with the latest remote data transmission technologies.

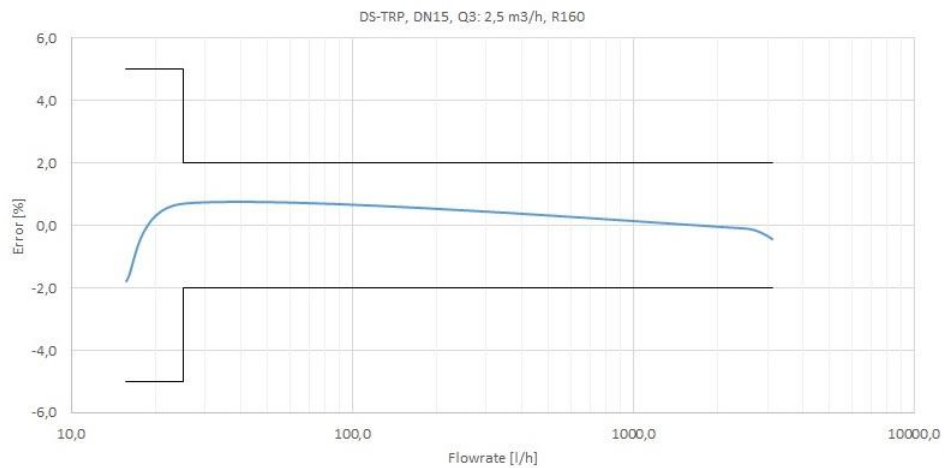
# DS TRP

## FEATURES

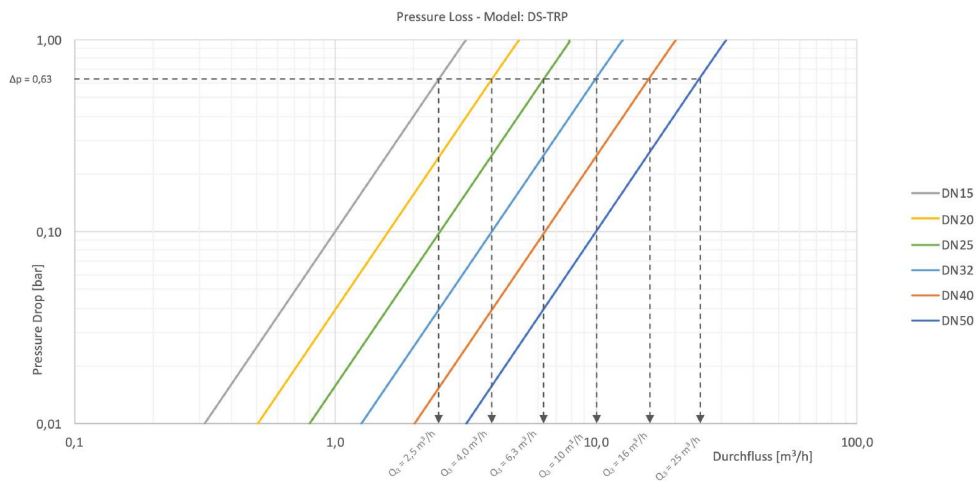
- Protected rollers multi-jet meter for cold water
- Ideal for utilities and outdoor installations
- MID-certified: R max 200
- DN: 15÷50
- Health certifications available for a number of countries
- Mechanical transmission unaffected by external magnetic fields
- Mineral glass lens
- Number rollers, approval class and serial number are located in the protected part
- Pre-equipped for optional reed switch (1P=1-10-100-1000L) or static pulse emitter (1P=1-10L)



## TYPICAL ERROR CURVE



## HEAD LOSS DIAGRAM



## METROLOGICAL PERFORMANCE

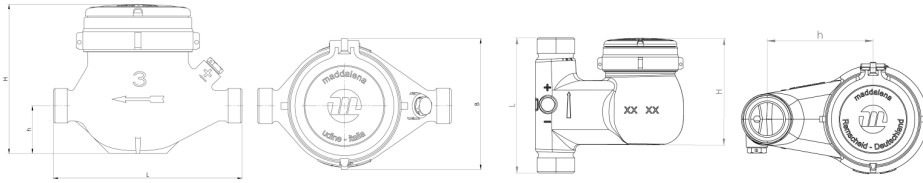
<b>Size</b>	<b>mm</b>	15	20	25	32	40	50
	<b>in</b>	½	¾	1	1 ¼	1 ½	2
<b>Module B no.</b>	TCM 142/08-4604						
<b>Module D no.</b>	0119-SJ-A010-08						
<b>Q<sub>3</sub>/Q<sub>1</sub> = R</b> Referred to installation position	H↑ ≤ 200						
<b>MID standard performance *</b>							
<b>Q<sub>3</sub></b>	<b>m<sup>3</sup>/h</b>	2,5	4	6,3	10	16	25
<b>Q<sub>4</sub></b>	<b>m<sup>3</sup>/h</b>	3,13	5	7,88	12,50	20	31,25
<b>R</b>	<b>160</b>						
<b>Q<sub>1</sub></b>	<b>l/h</b>	15,63	25	39,38	62,50	100	156,25
<b>Q<sub>2</sub></b>	<b>l/h</b>	25,01	40	63,01	100	160	250

\* Other values of R available upon request.

## TECHNICAL DATA

<b>Maximum permissible error between Q<sub>1</sub> and Q<sub>2</sub> (excluded)</b>	+/- 5%						
<b>Maximum permissible error between Q<sub>2</sub> (included) and Q<sub>4</sub></b>	+/- 2% with water temperature ≤ 30°C +/- 3% with water temperature > 30°C						
<b>Temperature class</b>	T30, T50						
<b>Flow profile sensitivity classes</b>	U0 - D0						
<b>Starting flow rate</b>	<b>l/h</b>	4-5	7-9	16-18	22-24	28-30	
<b>Head loss</b>	ΔP63						
<b>Nominal pressure</b>	<b>bar</b>	16					
<b>Maximum reading</b>	<b>m<sup>3</sup></b>	99.999				999.999	
<b>Minimum reading</b>	<b>l</b>	0,05					
<b>Indicative weight</b>	<b>kg</b>	1,45	1,61 (H) - 1,71 (V)	2,3	2,4 (H) - 2,14 (V)	7,7 (H) - 6,50 (V)	7,60 - 12,50 (FL)

## DIMENSIONS



Size	mm	15	20	25	32	40	50	
	in	½	¾	1	1 ¼	1 ½	2	
Thread	in	G ¾ B	G 1 B	G 1 ¼ B		G 1 ½ B	G 2 B	G 2 ½ B
	mm	105 (V) – 110 – 145 – 160 – 165 – 170 – 190	105 (V) – 160 – 190	220 – 260			200 (V) – 300 (H)	270 – 300
H	mm	112,5		123		143	175	
h	mm	36,5		43		46	55	
B	mm	97					130	154

## COMMUNICATION MODULES



**ARROW<sup>EVO</sup> 868  
SPLIT**



**ARROW<sup>WAN</sup> 868  
SPLIT**



**ARROW<sup>WAN</sup> NB-IoT  
SPLIT**



**QUADRAPLUS**



**REED SWITCH**

For more information on all the accessories available, consult the specific technical data sheets on the website [www.maddalena.it](http://www.maddalena.it)