



TANGENTIAL HELIX WATER METER

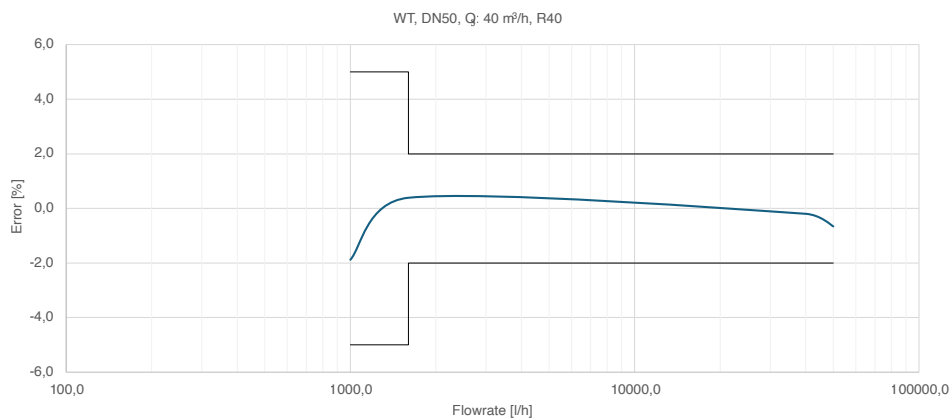
WT is an excellent solution for high-volume irrigation metering. Using a tangential helix, it offers good metrological performance, wide measuring range and excellent resistance over time, even when used with irrigation water. Easy readability thanks to its IP68 copper-glass register. Robust, long lasting and designed for the most challenging environments, it is suitable for both drinking and irrigation water. It can be equipped with the latest remote data transmission technologies.

FEATURES

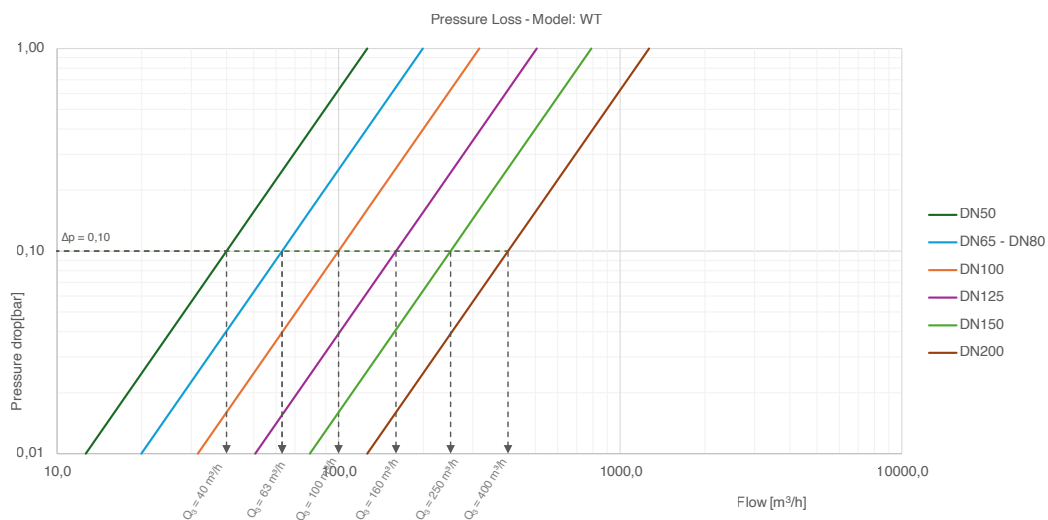
- Woltmann tangential helix cold water meter
- Ideal for large volume irrigation applications
- Certified MID R max 40
- DN: 50÷300
- High protection against external magnetic fields
- Mineral glass lens
- Sealed register (IP68 copper/glass) to entirely prevent condensation issues
- Can be provided fitted with wired or radio communication module
- MID-certified also in the "delivery group" version (see specific illustrative material), and therefore part of a metering system that includes On-Off valve and flow limiter
- Ready for reed switch pulse emitter (DN 50÷125 mm 1P=100 L / DN 150÷300 mm 1P=1000 L)



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.	IT-054-23-2213
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Module D no.	0119-SJ-A010-08
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Q3/Q1=R Referred to installation position	H-V = 40
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MID standard performance*	
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Q ₃	m ³ /h	40	63	100	160
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Q ₄	m ³ /h	50	78,75	125	200
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R	40
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Q ₁	l/h	1000	1575	2500	4000
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Q ₂	l/h	1600	2520	4000	6400
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*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
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Temperature class	T30
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Flow profile sensitivity classes	U10 - D5
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Head loss	ΔP10
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Nominal pressure	bar	16
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Maximum reading	m ³	9,9999,999
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Minimum reading	l	0,002
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Indicative weight	kg	9,8	11,0	14,5	17,5	19
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METROLOGICAL PERFORMANCE

Size	mm	150	200	250	300
	in	6	8	10	12

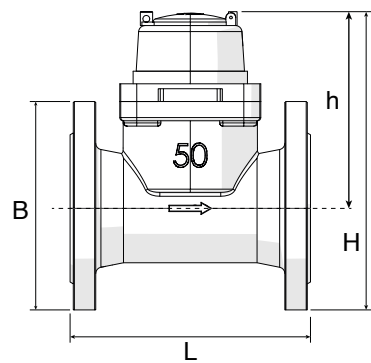
Module B no.			RO-2275-19454			
Module D no.			0119-SJ-A010-08		NO MID	
Q3/Q1=R Referred to installation position			H-V = 40			
MID standard performance*						
Q ₃	m³/h	250	400	630	1000	
Q ₄	m³/h	312	500	878,5	1250	
R			40			
Q ₁	l/h	625	1000	1575	2500	
Q ₂	l/h	1000	1600	2520	4000	

*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				
Flow profile sensitivity classes	U10 - D5				
Head loss	ΔP10				
Nominal pressure	bar	16			
Maximum reading	m ³	99.999.999			
Minimum reading	l	0,02			
Indicative weight	kg	25,5	35,0	63,0	86,0

DIMENSIONS



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

L	mm	200		225	250	
H	mm	257	273	288	300	322
h	mm	180	186	193	196	202
B	mm	165	185	200	220	250

Size	mm	150	200	250	300
	in	6	8	10	12

L	mm	300	350	450	500
H	mm	347	382	448	510
h	mm	212	222	240	281
B	mm	285	340	405	460

COMMUNICATION MODULES



REED SWITCH WOLTMANN

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