

WPD-HY

Woltman meter with a parallel to flow direction arranged turbine

The bulk hydrant water meter WPD-HY is used for paying water withdrawal from underground or above ground hydrants for irrigation, on construction sites or other temporary applications. With the pre-assembled quick-release couplings of size C, the meter is ready for immediate use without further assembly work.

The meter is equipped with a 6-roller dry dial register (IP68) and a modulator disc. This enables electronic, reaction-free scanning and is the basis for remote reading of the meter data via radio with LoRaWAN® or wM-Bus. A combined M-Bus/pulse module is also possible. A mechanical pulser can also be connected in parallel. The housing made of aluminum and the practical stainless steel carrying handles facilitate mobile use. The generous stainless steel base ensures a secure footing even on uneven ground.



Performance characteristics at a glance

- Woltman parallel type
- For horizontal installation
- Housing coated inside and outside with drinking water approved powder coating
- C size quick-release couplings
- Carrying handle and feet made of stainless steel
- Highest precision and reliability even in case of low flow rates
- Flood-proof (IP68) hermetically sealed glass/copper register
- Low starting flow and high overload security
- Wide measuring range, low pressure loss
- Hydraulic bearing relief
- Long-term measuring stability
- No straight inlet or outlet needed (U0/D0) according to OIML R49 and DIN EN ISO 4064
- Prepared for remote reading
- Register rotatable 355 °
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

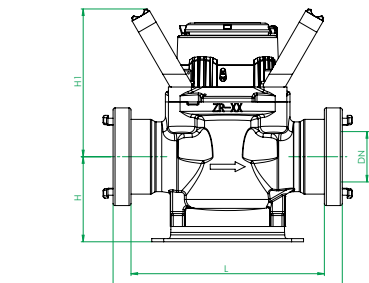
- For the consumption measurement of cold and clean drinking water or service water up to 50 °C
- For measuring high flow rates

AMR options

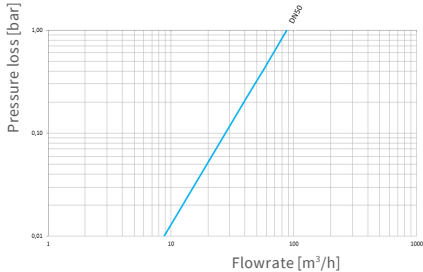
- Can be combined with stationary GSM system
- Can be retrofitted with a mechanical pulser
- Retrofittable with EDC module (Electronic Data Capture):
 - EDC LPWAN radio module (868 MHz) for LoRaWAN®
 - EDC wireless M-Bus radio module (868 MHz)
 - EDC combined M-Bus and pulse module

Technical data			
Nominal diameter	DN	mm	50
Permanent Flowrate	Q_3	m^3/h	40
Attainable measuring range	Q_3/Q_1	R	R100H
Standard measuring range ¹	Q_3/Q_1	R	R63H
Overload Flowrate	Q_4	m^3/h	50
Minimum Flowrate ²	Q_1	m^3/h	0,64
Transitional Flowrate ²	Q_2	m^3/h	1,02
Start-up flow rate	-	m^3/h	0,065
Display range	min	l	0,5
	max	m^3	999999
Temperature range	-	°C	0,1 - 50
Operating pressure	MAP	bar	0,3 - 16
Pulse value Reed	-	l/pulse	100
Pulse value modulator disc	-	l/pulse	10
Pressure loss class at Q_3	Δp	bar	0,25
Mechanical environmental condition	-	-	M2
Climatic ambient conditions ³	-	°C	5 - 55
Flow profile sensitivity	-	-	U0/D0
Dimensions and weights:			
Nominal diameter	DN	mm	50
Body	L	mm	200
Total length (incl. quick-release couplings)	L2	mm	230
Height	H	mm	86
Height	H1	mm	148
Total height approx.	H+H1	mm	234
Weight approx.	-	kg	3,6

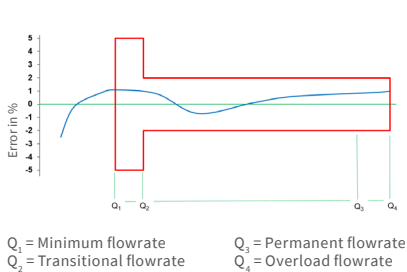
¹ Other measuring ranges on request
² Values refer to standard measuring range
³ Condensation possible



Dimensions



Pressure loss curve



Q_1 = Minimum flowrate
 Q_2 = Transitional flowrate
 Q_3 = Permanent flowrate
 Q_4 = Overload flowrate

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