

WPVD 150

Compound Water Meter for cold water up to 50 °C DN 150



Special Features

- Main meter with hydrodynamically balanced rotor
- Main meter with removable measuring element
- Compact spring loaded valve
- Hermetically sealed registers (IP 68)
- Powder coating ensures maximum corrosion protection
- Stainless steel screws
- For bypass meter all approved domestic water meters can be used

Pattern Approval

6.152	Nominal Diameter DN 150
80.02	Marking
	Metrological class B
	30 °C

Application

- Measurement of high flow rates with extremely wide spread flow profile
- Measurement of smallest flow rates for leakage detection
- Ideal for fire service pipes

Options

- Main and bypass meter with pulsers
- Overall length acc. to DIN with spool piece
- Main meter and bypass meter can be equipped with several electronic registers



HYBRID



ELECTRONIC



ENCODER

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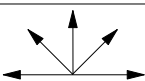
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Installation

Pipe	horizontal vertical * inclined *	
Meter head	upwards sideways *	

* depends on type of bypass meter

Installation requirements

- Unrestricted straight pipe in front of the meter 3 x DN
- No requirements behind the meter

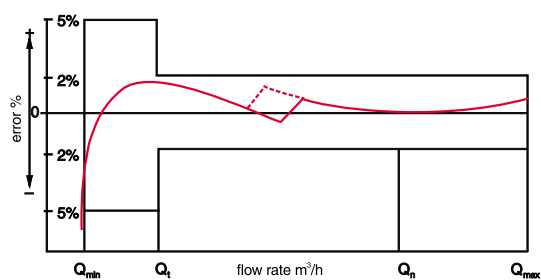
Technical Data

Nominal Diameter	DN		150
Size of meter (EEC)	Q_n		150
Working pressure	PN	bar	16
Maximum peak flow (few minutes)	Q_{max}	m^3/h	600
Continuous flow	Q_n	m^3/h	400
Bypass meter	Q_n	m^3/h	10
Transitional flow $\pm 2\%$	Q_t	m^3/h	0.15
Change over with increasing flow		m^3/h	8.3
decreasing flow		m^3/h	4.7
Lower measuring limit $\pm 5\%$	Q_{min}	m^3/h	0.03

Pulse Values

Main meter	RD 01	1 m^3 and 10 m^3
	OD 01	0.01 m^3
	OD 03	0.1 m^3
Bypass meter	Reed	0.01 m^3 ; 0.1 m^3 or 1 m^3

Typical Accuracy Curve



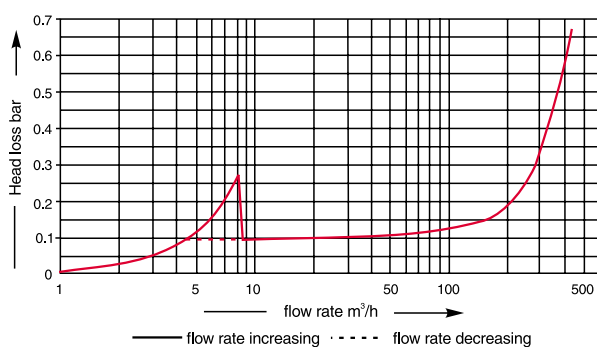
Q_{max} = continuous peak flow

Q_n = continuous flow

Q_t = transitional flow $\pm 2\%$

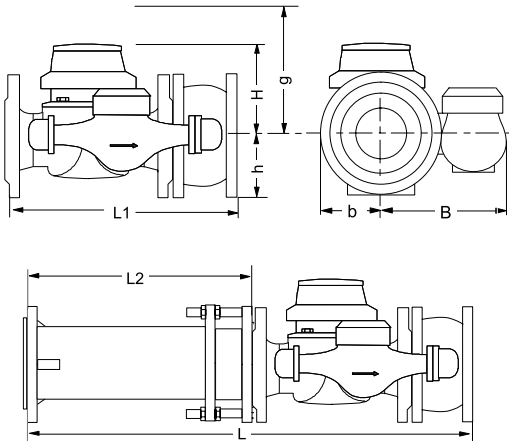
Q_{min} = minimum flow $\pm 5\%$

Typical Head Loss Curve



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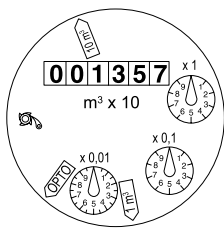
Dimension Pictures



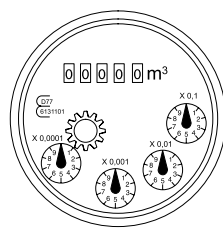
Dimensions and Weights

Nominal Diameter	DN	150
Size of meter	Q _n	150
Overall length	L1	mm
Bypass meter	Q _n	10
Height	H	mm
	h	mm
	g	mm
Length	L2	mm
	L	mm
Width	B	ca. mm
	b	ca. mm
Weight	meter	kg
	meas. element	kg
	spool piece	kg

Dials



Main meter



Bypass meter
(Type MN Q_N : XN.EBH)

Materials

Body	Main meter	cast iron
	Bypass meter	brass
Measuring element (both meters)		plastic
Rotor (both meters)		plastic
Spring loaded valve		plastic and stainless steel

Bypass Meters

Standard Bypass Meter
MN Q_N ... XN.EBH



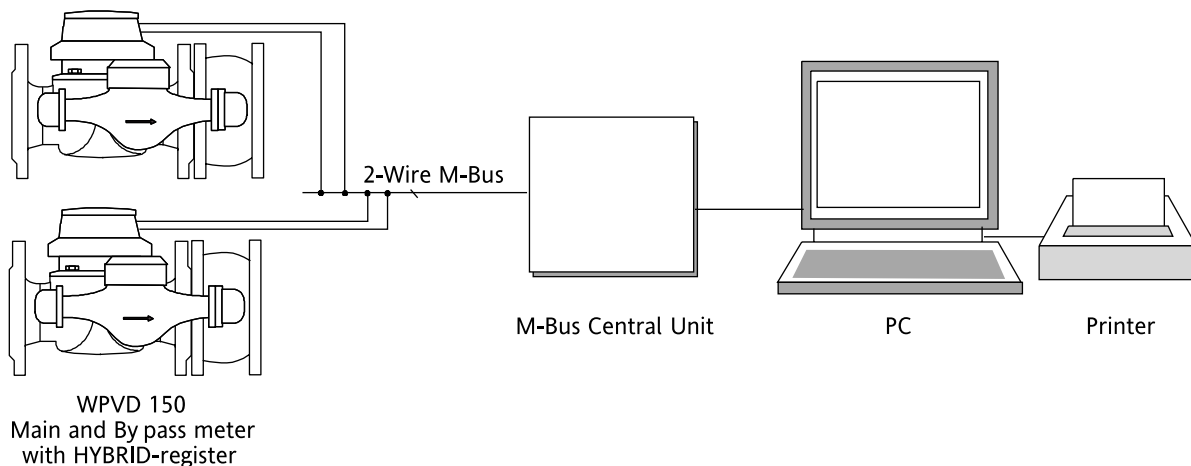
Rotary Piston Meter
RKD Q_N 10



Standard Bypass Meter:	
Multijet Meter wet dial	Type: MN Q _N 10 XN.EBH
Options:	
Multijet Meter wet dial with pulser	Type: MN Q _N 10 XN.EBH K ...
Rotary Piston Meter with Standard register with Hybrid register with Electronic register with Encoder register	Type: RKD Q _N 10 Standard Type: RKD Q _N 10 Hybrid Type: RKD Q _N 10 Electronic Type: RKD Q _N 10 Encoder

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Application example for automatic meter reading



Order Text

Quantity:

Specification: WPVD 150

Bypass meter: right / left

Nominal Diameter: DN 150

Size of meter: Q_n

Working temperature: 50 °C

Working pressure: PN 16

Metrological class: A / B

Pulse values: main meter / m³
Bypass meter m³

Flange drilling: acc. to DIN 2501, PN 16

Certication: with / without

Accessories:

Nominal Diameter: DN

Order Example

Quantity: 3

Specification: WPVD 150

Bypass meter: right

Nominal Diameter: DN 150

Size of meter: Q_n 150

Working temperature: 50 °C

Working pressure: PN 16

Metrological class: B

Pulse values: main meter 10/1 m³
Bypass meter 0.01 m³

Flange drilling: acc. to DIN 2501, PN 16

Certification: with

Accessories: spool piece

Nominal Diameter: DN 150