

# 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


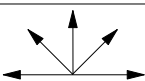


ENCODER

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# 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

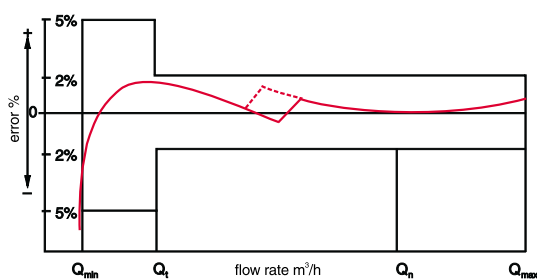
## Technical Data

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



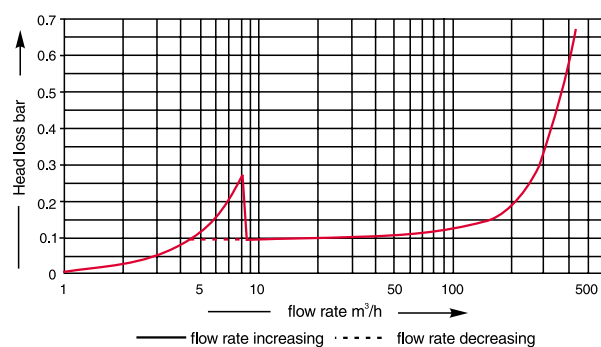
$Q_{max}$  = continuous peak flow

$Q_n$  = continuous flow

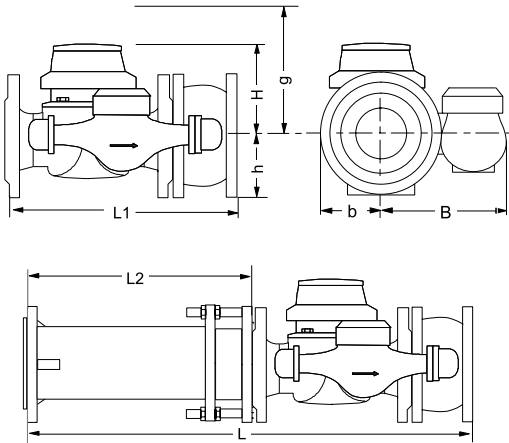
$Q_t$  = transitional flow  $\pm 2\%$

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

## Typical Head Loss Curve



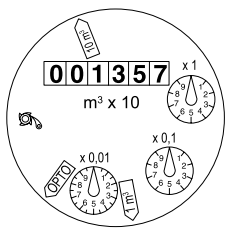
## Dimension Pictures



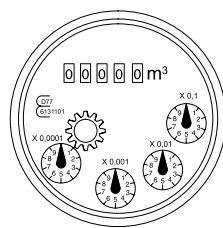
## Dimensions and Weights

Nominal Diameter	DN	150
Size of meter	Q <sub>n</sub>	150
Overall length	L1	mm
Bypass meter	Q <sub>n</sub>	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<sub>N</sub> : 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<sub>N</sub> ... XN.EBH

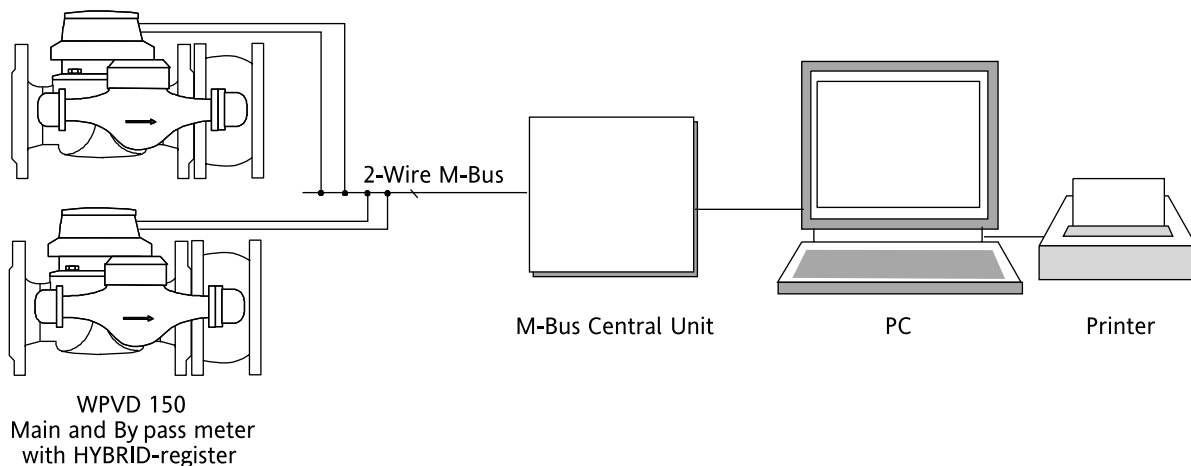


Rotary Piston Meter  
RKD Q<sub>N</sub> 10



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

# 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 .... / ....  $m^3$   
Bypass meter ....  $m^3$

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  $m^3$   
Bypass meter 0.01  $m^3$

Flange drilling: acc. to DIN 2501, PN 16

Certification: with

Accessories: spool piece

Nominal Diameter: DN 150