WPV-MS 150

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

Main characteristics

Meter with pattern approval acc. to 2004/22/EC (MID) annex MI001

No straight upstream or downstream pipe due to integrated flow straightener (U0D0)

Spring-loaded change-over valve with low headloss and extended lifetime

By-pass meter specified as a piston meter RK-MS HRI, register copper/glass, protection class IP68

Powder coating ensures maximum corrosion protection

Meter can be submerged, protection class IP68

Installation position horizontal

Register prepared for HRI-Mei and Opto OD pick-up

Used materials resistant up to 50 °C medium temperature

Applications

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 by-pass meters fitted with pulse and data interface HRI-Mei and/or pulsers type OD (with by-pass meter RK-MS HRI)

Overall length acc. to DIN with spool piece

Main meter and By-pass meter can be equipped with Encoder ER56 register

Pattern Approval

Marking	CE M-XX* 0102
	DE-14-MI001-PTB002
	* Year of production

Temperature class T30

Installation

Pipe	horizontal ———
Meter head	upwards ↑

Installation requirements
The meter does not require any upstream or downstream straight length.
The common rules of good engeneering practice must be followed.

Pulse Values

Standard register

Main meter	HRI-Mei	0.1 m³, 1 m³ or 10 m³
	OD 01	0.01 m³
	OD 03	0.1 m³
By-pass meter	HRI-Mei	0.01 m³, 0.1 m³ or 1 m³
	OD 01	0.001 m³
	OD 03	0.01 m³

Encoder register

Main meter	HRI	1 m³ or 10 m³
By-pass meter	HRI	0.1 m³ or 1 m³

Technical Data

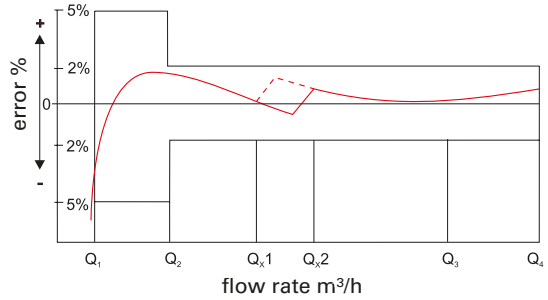
Performance table acc. to manufacturers data

Nominal Diameter	**DN**		**150**
Working pressure	PN	bar	16
Maximum peak flow	Q_S	m³/h	600
Continuous flow	$Q_{3'}$	m³/h	400
By-pass meter	DN	mm	40
Transitional flow	Q_2	m³/h	0.15
Minimum flow	Q_1	m³/h	0.035

Performance table acc. to MID pattern approval

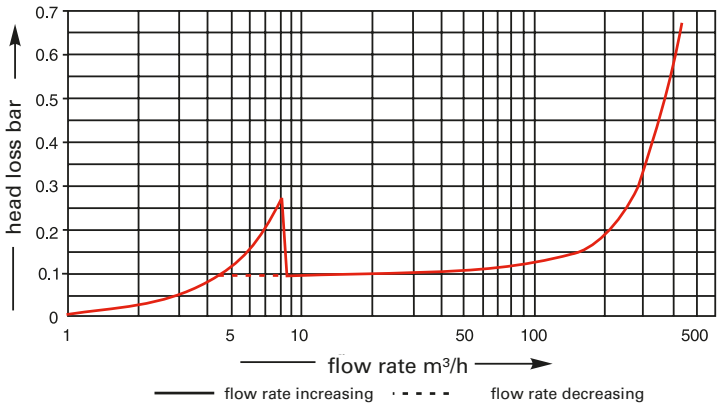
Nominal Diameter	**DN**		**150**
Maximum peak flow	Q_4	m³/h	315
Continuous flow	Q_3	m³/h	250
Change-over flow (increasing)	Q_{x2}	m³/h	8.3
Change-over flow (decreasing)	Q_{x1}	m³/h	4.7
Transitional flow	Q_2	m³/h	0.16
Minimum flow	Q_1	m³/h	0.1

Typical Accuracy Curve

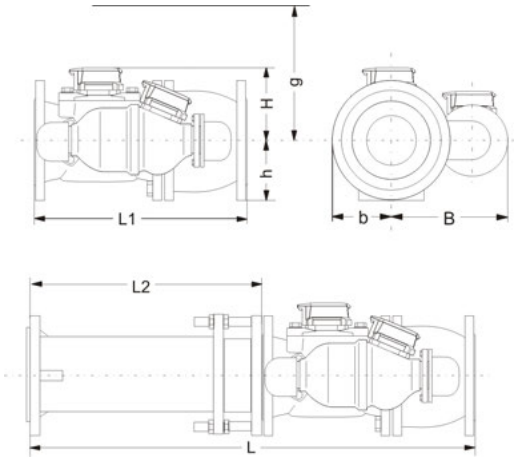


Q_4 = maximum peak flow ±2%
Q_3 = continuous flow ±2%
Q_2 = transitional flow ±2%
Q_1 = minimum flow ±5%

Typical Head Loss Curve



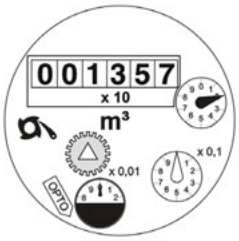
Dimension Pictures



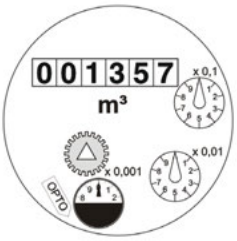
Dimensions and Weights

Nominal Diameter		DN	150
Overall length	L1	mm	500
By-pass meter	Q_3		16
Height	H	mm	177
	h	mm	135
Dismantling height	g	mm	356
Length	L2	mm	500±40
	L	mm	1000±40
Width	B	ca. mm	275
	b	ca. mm	145
Weight	meter	kg	60
	spool piece	kg	32

Dials



Main meter



By-pass meter

Materials

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

By-pass Meters

Rotary Piston Meter
RK-MS Q_3 16

Standard By-pass Meter:	
Rotary piston meter with mechanical register	Type: RK-MS HRI Q_3 16
Options:	
Rotary Piston Meter with Encoder register	Type: RK-MS ER56 Q_3 16

Application example for automatic meter reading

Order Example

	type
	diameter nominal
	working temperature
	working pressure
WPV-MS DN 150 50/16	
according to EN 1092 PN 16	flange drilling
with spool piece	**accessories**
DN 150	size

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