



Special Features

- Hermetically sealed register (IP 68)
- Patented hydrodynamically balanced rotor
- Patented symmetrical calibration adjustment
- Register may be rotated through 360°
- High overload capability
- Pattern approved removable measuring element
- Powder coating affords max. corrosion protection
- Not affected by external magnetic fields

Application

Measurement of high, relatively constant flow rates, e.g. behind pumps

Options

Up to 3 pulsers (1 x OD, 2 x RD) may be fitted without breaking the approval seal

1/4" connection port for pressure sensors

May be equipped with 3 different electronic registers



HYBRID



ELECTRONIC



ENCODER

Cold water meters pressure rate PN 40 please see special leaflet

Pattern Approval Sign

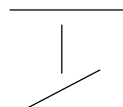
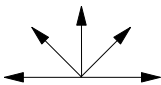
D95

Diameter Nominal DN 40 ... DN 300

6.132.36

Marking:
Metrological class B
30 °C

Installation

Pipe	horizontal vertical inclined	
Meter head	upwards sideways	

Installation Requirements

Unrestricted straight pipe in front of the meter 3 x DN

No abrupt restrictions directly behind the meter

Performance Table

Performance data WP-Dynamic 50 °C

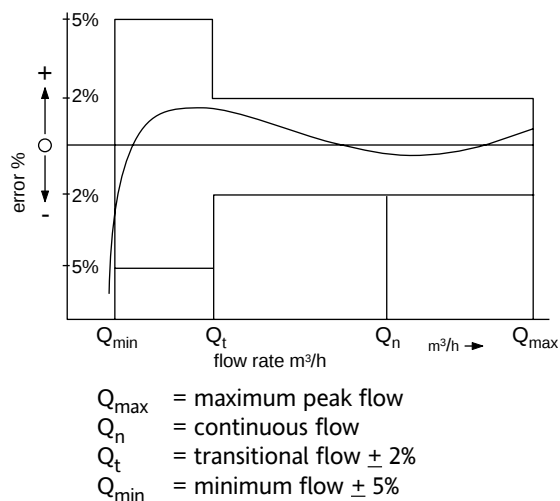
Diameter Nominal			DN	40	50	65	80	100	125	150	200	250	300
Size of meter (acc. to EEC)			Q _n	10	15	25	40	60	100	150	250	400	600
Q _{max}	maximum peak flow once in life time 24 h Q _{max} or 5 min. 1.2 x Q _{max}	m ³ /h (+ 2%)	60	90	120	200	300	350	600	1200	1600	2000	
Q _n	continuous flow	(+ 2%) m ³ /h	40	50	70	120	230	250	450	800	1250	1400	
Q _t	transitional flow	(+ 2%) m ³ /h	0.8	0.7	0.8	0.8	1.8	2.0	4.0	6.0	11.0	15.0	
Q _{min}	minimum flow	(+ 5%) m ³ /h	0.30	0.30	0.40	0.50	0.80	1.00	1.8	4.0	6.0	12.0	
	starting flow	m ³ /h	0.15	0.15	0.20	0.25	0.25	0.5	1.0	1.5	3.0	8.0	

Performance data according to EEC-specification 30 °C class B

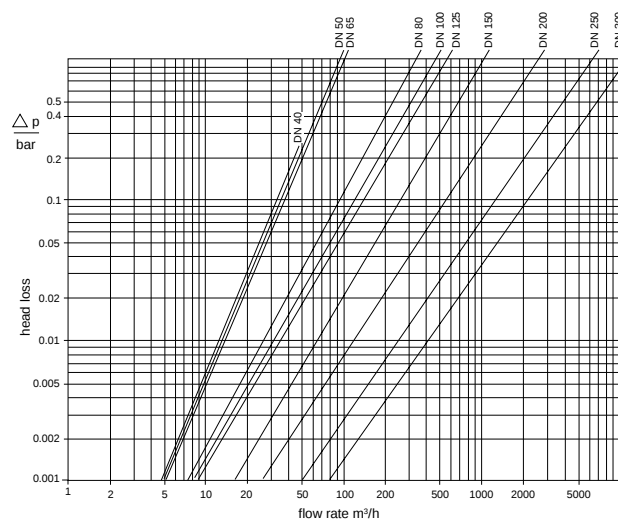
Diameter Nominal			DN	40	50	65	80	100	125	150	200	250	300
Size of meter (acc. to EEC)			Q _n	10	15	25	40	60	100	150	250	400	600
Q _{max}	maximum peak flow short time	(± 2%) m ³ /h	30	30	50	80	120	200	300	500	800	1200	
Q _n	continuous flow	(± 2%) m ³ /h	15	15	25	40	60	100	150	250	400	600	
Q _t	transitional flow	(± 2%) m ³ /h	3.0	3.0	5.0	8.0	12.0	20.0	30	50	80	120	
Q _{min}	minimum flow	(± 5%) m ³ /h	0.45	0.45	0.75	1.20	1.80	3.00	4.5	7.5	12.0	18.0	

WP-Dynamic for cold water

Typical Accuracy Curve



Typical Head Loss Curve

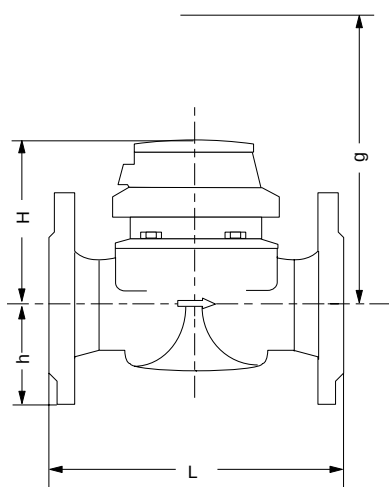


Dimensions and Weights

Diameter Nominal		DN	40	50	65	80	80	100	125	150	200	250	300
Size of meter (acc. to EEC)		Q_n	10	15	25	40	40	60	100	150	250	400	600
Dimensions	overall length	L *)	mm	220	200	200	200	225	250	250	300	350	500
	height	H	mm	120	120	120	150	150	150	160	177	206	256
		h	mm	69	73	85	95	95	105	118	135	162	194
		g	mm	200	200	200	270	270	270	280	356	441	491
Weights	meter	kg	7.4	7.7	10.0	13.6	14.0	18.0	20.5	35.5	50.5	72.3	99.3
	measuring element	kg	1.4	1.4	1.4	3.0	3.0	3.0	3.0	5.5	7.5	7.5	7.5
	body	kg	6.0	6.3	8.6	10.6	11.0	15.0	17.5	30.0	43.0	63.8	91.8

*) Other overall lengths on request

Dimension Picture

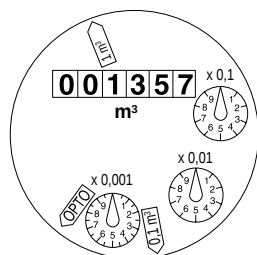


Materials

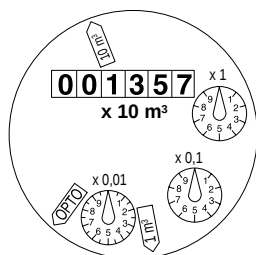
Body	PN16	cast iron
Measuring element		plastic
Rotor		plastic
We also use the following materials		brass stainless steel

WP-Dynamic for cold water

Dials



DN 40 ... DN 125



DN 150 ... DN 300

Diameter Nominal DN	Smallest reading m ³	Max. reading m ³
50 ... 125	0.0005	1 000 000
150 ... 300	0.005	10 000 000

Pulse Values

Pulser		pulse value	
		DN 40 ... DN 125	DN 150 ... DN 300
RD 01		0.1 and 1 m ³ alternatively 0.01 and 1 m ³	1 and 10 m ³ alternatively 0.1 and 10 m ³
OD 01		0.001 m ³	0.01 m ³
OD 03		0.01 m ³	0.1 m ³

Order Text

Quantity:
 Specification: WP-Dynamic
 Diameter Nominal: DN
 Size of meter: Q_n
 Working temperature: 50 °C
 Working pressure: PN 16
 Metrological class: A / B
 Overall length L: mm
 Pulse values: / m³
 Flange drilling: acc. to DIN 2501, PN 16
 Certification: with / without

Order Example

Quantity: 5
 Specification: WP-Dynamic
 Diameter Nominal: DN 50
 Size of meter: Q_n 15
 Working temperature: 50 °C
 Working pressure: PN 16
 Metrological class: B
 Overall length L: 200 mm
 Pulse values: 1 / 0.1 m³
 Flange drilling: acc. to DIN 2501, PN 16
 Certification: with