



#### Prepared for electronic registers



HYBRID



ELECTRONIC



ENCODER

## 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

## Application

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

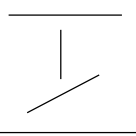
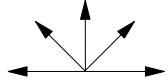
## Options

- May be equipped with 3 different electronic registers (see leaflets ML 3910 e ... 3930 e)
- 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
- Cold water meters pressure rate PN 40 please see leaflet ML 5050 e

## ■ 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

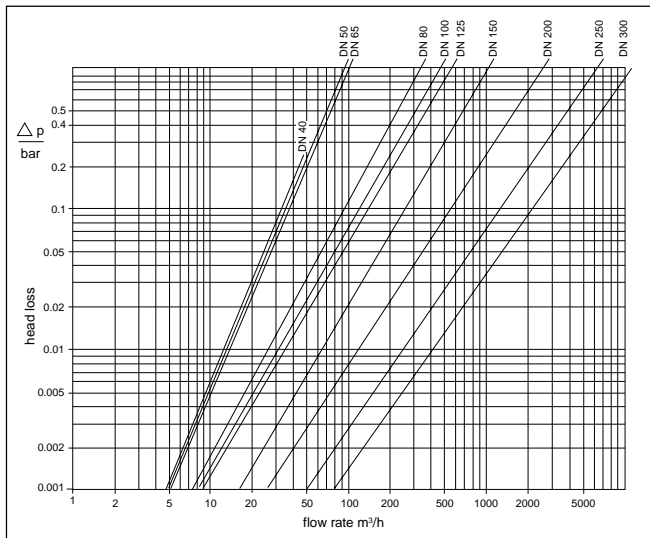
### Performance data WP-Dynamic QH 50 °C

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

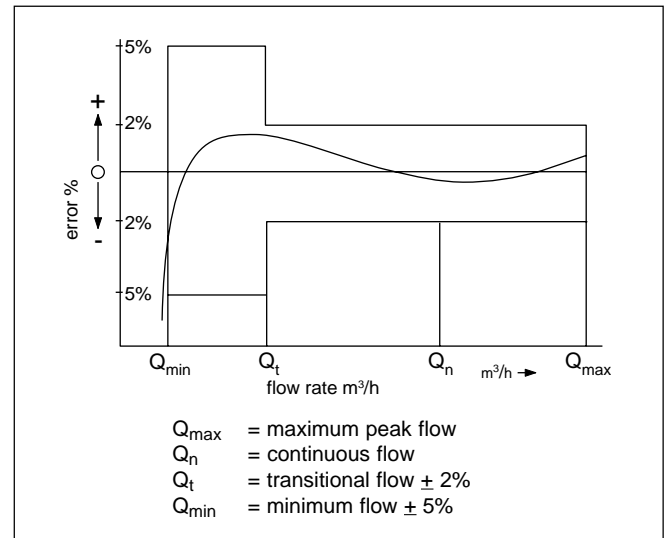
### Performance data according to EEC-specification 30 °C class B

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

## Typical Head Loss Curve



## Typical Accuracy Curve

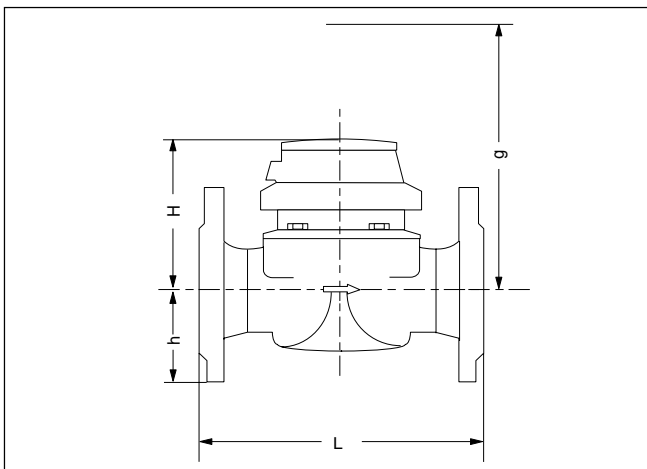


## Dimensions and Weights

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	450	500	
	height	H	mm	120	120	120	150	150	150	160	177	206	231	256
		h	mm	69	73	85	95	95	105	118	135	162	194	226
		g	mm	200	200	200	270	270	270	280	356	441	466	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

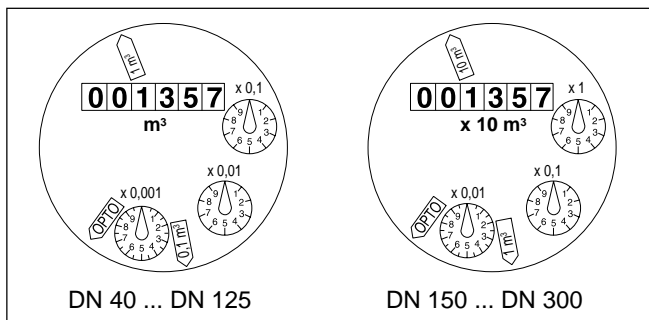
## Dimension Picture



## Material



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

## Dials



Diameter Nominal DN	Smallest reading m³	Max. reading m³
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 m³ alternatively 0.01 and 1 m³	1 and 10 m³ alternatively 0.1 and 10 m³
OD 01		0.001 m³	0.01 m³
OD 03		0.01 m³	0.1 m³

## Available Designs

Diameter Nominal	DN	40	50	65	80	80	100
Overall length *)	mm	220	200	200	200	225	250
Order no.	PN 16	828593	828595	828597	828599	828601	828603

Diameter Nominal	DN	125	150	200	250	300	
Overall length *)	mm	250	300	350	450	500	
Order no.	PN 16	828605	828607	828717	828719	828743	

\*) Other overall lengths on request

## Order Example

WP-Dynamic, DN 50, 50/16, L= 200 mm, 1/0.1 m³  
 drilled according to DIN 2501 PN 16  
 828595

\_\_\_\_\_ type  
 \_\_\_\_\_ diameter nominal  
 \_\_\_\_\_ working temperature  
 \_\_\_\_\_ pressure rate  
 \_\_\_\_\_ overall length  
 \_\_\_\_\_ pulse values  
 \_\_\_\_\_ flange drilling  
 \_\_\_\_\_ order no.



Quality Management System  
 DQS-certified according to DIN ISO 9001,  
 Reg.-No. 2173-02

Laboratory Accreditation according to DIN EN 45001  
 DAR Registration No. LED-P-08.001

Subject to change without notice  
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