



WP-QF

**Turbine Water Meter for cold water up to 40 °C
for hot water up to 130 °C PN25/40, DN 50 ...
DN 300**

Main Features

For cold water up to 40 °C

- Sealed register water proof (IP 67)
- Sealed register may be rotated through 360°
- Up to 3 pulsers can be fitted without breaking the meter seal
- Maximum corrosion protection by powder coating
- Not affected by external magnetic fields
- Interchangeable measuring element
- Performance data better than class B

For hot water up to 130 °C

- Sealed register water proof (IP 67)
- Sealed register may be rotated through 360°
- Up to 3 pulsers can be fitted without breaking the meter seal
- Maximum corrosion protection by powder coating
- Not affected by external magnetic fields
- Interchangeable measuring element

APPLICATIONS

Measuring of cold water up to 40 °C
(overloadable up to 50 °C) in water supply
pipelines with pressure up to 25/40 bar



Flow sensor for heat meters

Measuring of hot water up to 130 °C
(overloadable up to 150 °C) in heating
systems with pressure up to 25/40 bar

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Installation

Pipe	horizontal	
	vertical	
	inclined	
Meter head	upwards	
	sideways	

Performance Data 40 °C

Nominal Daimeter		DN	200	250	300
Size of meter (acc. to ISO 4064:1-1993)		Q_n	250	400	600
Q_{max}	Maximum peak flow (few minutes)	m ³ /h	800	1200	2000
Q_n	Continuous flow ± 2%	m ³ /h	550	750	1000
Q_t	Transitional flow ± 2%	m ³ /h	6.0	12	15
Q_{min}	Minimum flow ± 5%	m ³ /h	4.0	6.0	12
	Starting flow	m ³ /h	1.8	3.0	9.0

For DN 50-150 please see MeiStream PN 40

Installation Requirements

Unrestricted straight pipe upstream of the meter 3 x DN

No abrupt restrictions directly behind the meter followed

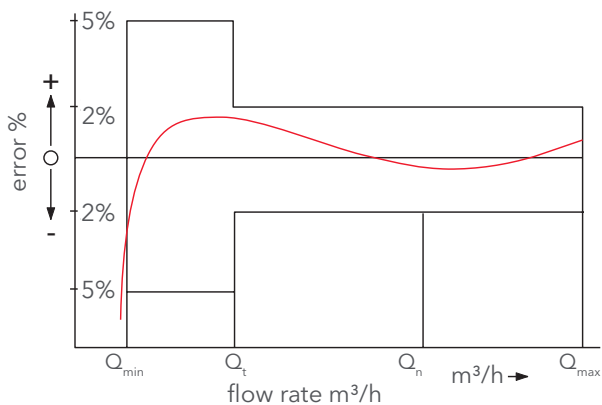
Performance Table 130 °C

Nominal Daimeter		DN	50	80	100	150	200	250	300
Size of meter (acc. to ISO 4064:1-1993)		Q_n	15	40	60	150	250	400	600
Q_{max}	Maximum peak flow (few minutes)	m ³ /h	30	90	140	300	500	1000	1200
Q_n	Continuous flow ± 3%	m ³ /h	15	45	70	150	250	500	600
Q_t	Transitional flow ± 3%	m ³ /h	1.8	3.2	4.8	12	20	45	50
Q_{min}	Minimum flow ± 5%	m ³ /h	1.0	1.4	2.0	4.5	8	25	30
	Starting flow	m ³ /h	0.25	0.35	0.6	1.7	2.0	10	15

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Typical Accuracy Curve



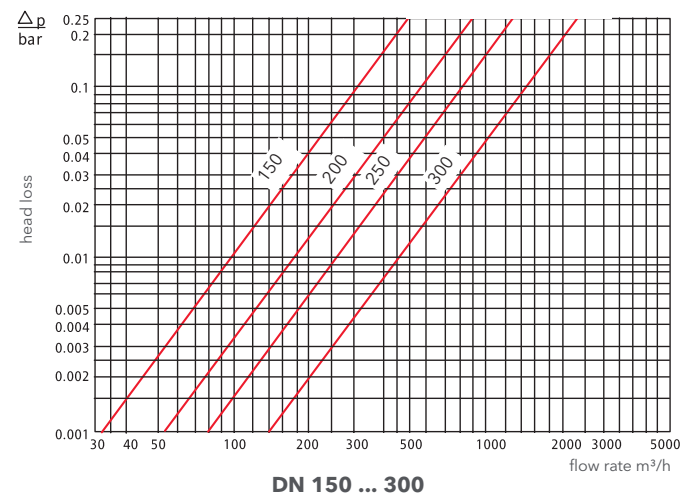
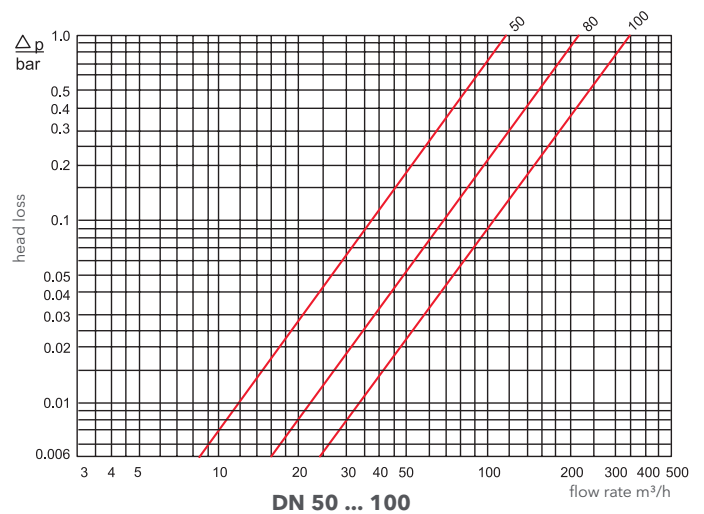
Q_{max} = maximum peak flow

Q_n = continuous flow

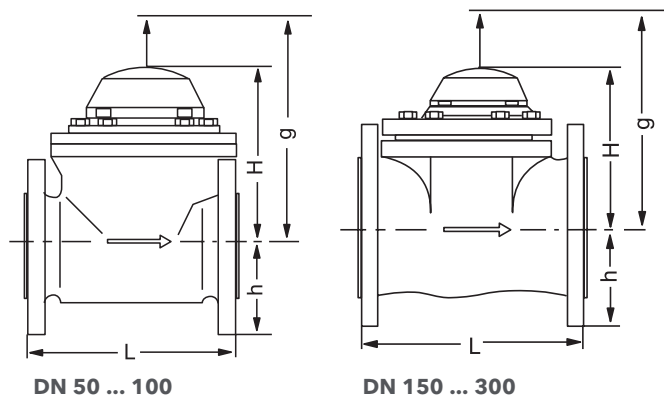
Q_t = transitional flow $\pm 2\%$

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

Typical Head Loss Curve



Dimensional Diagram



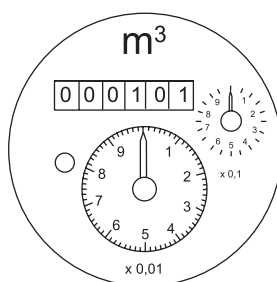
Dimensions and Weights

Nominal Diameter	DN	50	80	100	150	200	250	300
Size of meter (ISO 4064-1:1993)	Q_n	15	40	60	150	250	400	600
Working pressure	PN	bar	40	40	40	40	25	25
Overall length	L	mm	200	225	250	300	350	500
Height	H	mm	175	175	175	233	233	321
	h	mm	82	100	110	135	162	219
	g	mm	360	360	360	470	470	680
Weight	meter	kg	15	18	24	43	57	118
	meas. unit	kg	3	3	3	9	9	22
	body	kg	12	15	21	34	48	132

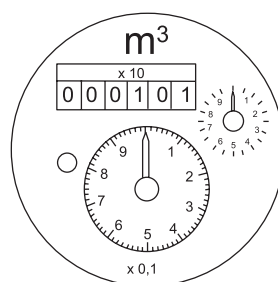
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**Turbine Water Meter for cold water up to 40 °C for hot water up to 130 °C
PN25/40, DN 50 ... DN 300**

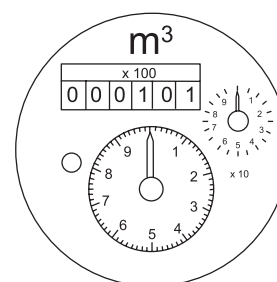
Dials



DN 50 ... DN 100



DN 150 ... DN 250



DN 300

Pulse Values

Nominal Diameter	DN		50 ... 100 1 pulse Δ ...	150 ... 250 1 pulse Δ ...	300 1 pulse Δ ...
Cold water meter	Standard	R 01		10 m³ 1 m³	100 m³ 10 m³
Hot water meter	Standard	R 02	0.25 m³ 0.1 m³	2.5 m³ 1 m³	25 m³ 10 m³
	With special register	R 02	0.25 m³ 0.025 m³	2.5 m³ 0.25 m³	25 m³ 2.5 m³
Cold water meter		OP 01 OP 03		0.01 m³ 0.1 m³	0.1 m³ 1.0 m³
Hot water meter		OP 02 OP 04	0.001 m³ 0.01 m³	0.01 m³ 0.1 m³	0.1 m³ 1.0 m³

Available Variants

COSMOS WP DN 200 ... DN 300 • 40 °C / PN 25/40

Diameter Nominal	DN	200	250 *)	300 *)
Overall length L	mm	350	450	500
Order no.		827468	828182	828188

For DN 50-150 please see MeiStream PN 40

COSMOS WP DN 50 ... DN 300 • 130 °C / PN 25/40

Diameter Nominal	DN	50	80	100	150	200	250 *)	300 *)
Overall length L	mm	200	225	250	300	350	450	500
Order no.		828364	827451	827457	827463	827469	828183	828189

* Only PN 25

Order Example

WP-QF 50 130 / 40 L = 200 mm
according to EN 1092 PN 40
82 83 64

type
diameter nominal
working temperature
working pressure
overall length
flange drillings
order no.

xylem



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