



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)	m³/h	800	1200	2000
Q _n	Continuous flow ± 2%	m³/h	550	750	1000
Q _t	Transitional flow ± 2%	m³/h	6.0	12	15
Q _{min}	Minimum flow ± 5%	m³/h	4.0	6.0	12
Starting flow		m³/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

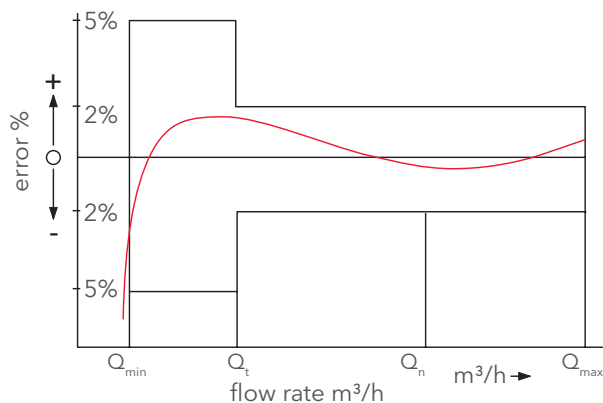
Nominal Daimeter		DN	50	80	100	150	200	250	300
Size of meter (acc. to ISO 4064:1-1993)		Q _n	15	40	60	150	250	400	600
Q _{max}	Maximum peak flow (few minutes)	m³/h	30	90	140	300	500	1000	1200
Q _n	Continuous flow ± 3%	m³/h	15	45	70	150	250	500	600
Q _t	Transitional flow ± 3%	m³/h	1.8	3.2	4.8	12	20	45	50
Q _{min}	Minimum flow ± 5%	m³/h	1.0	1.4	2.0	4.5	8	25	30
Starting flow		m³/h	0.25	0.35	0.6	1.7	2.0	10	15

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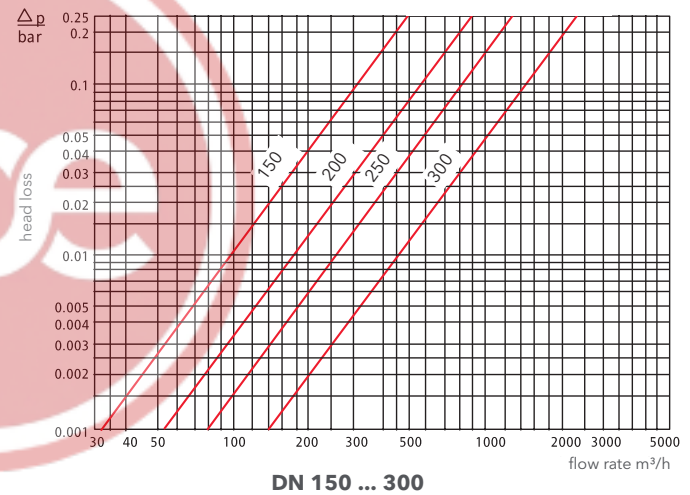
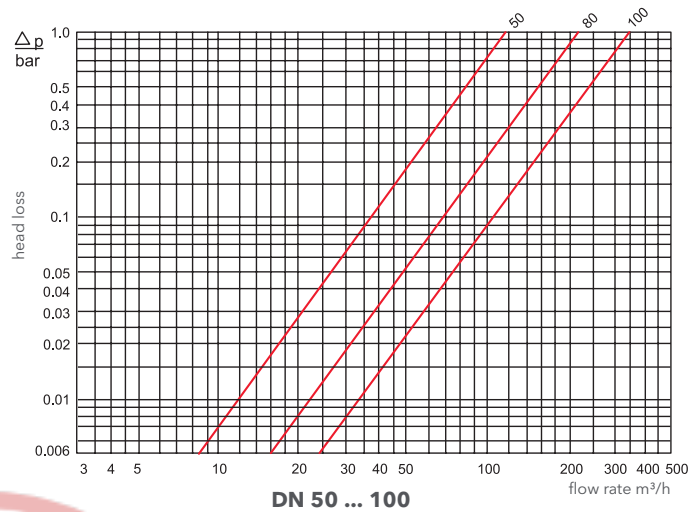
Turbine Water Meter for cold water up to 40 °C for hot water up to 130 °C
PN25/40, DN 50 ... DN 300

Typical Accuracy Curve

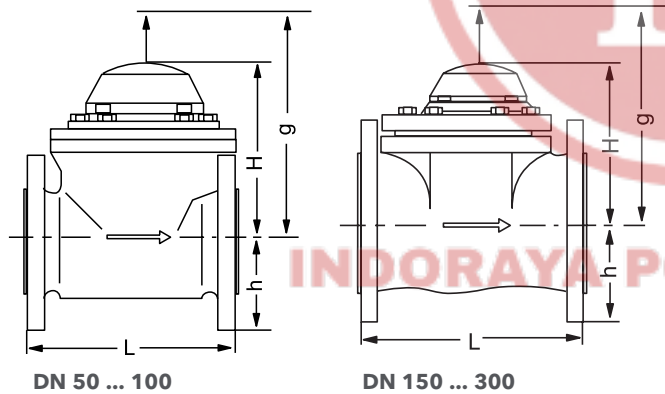


Q_{max} = maximum peak flow
 Q_n = continuous flow
 Q_t = transitional flow $\pm 2\%$
 Q_{min} = minimum flow $\pm 5\%$

Typical Head Loss Curve



Dimensional Diagram



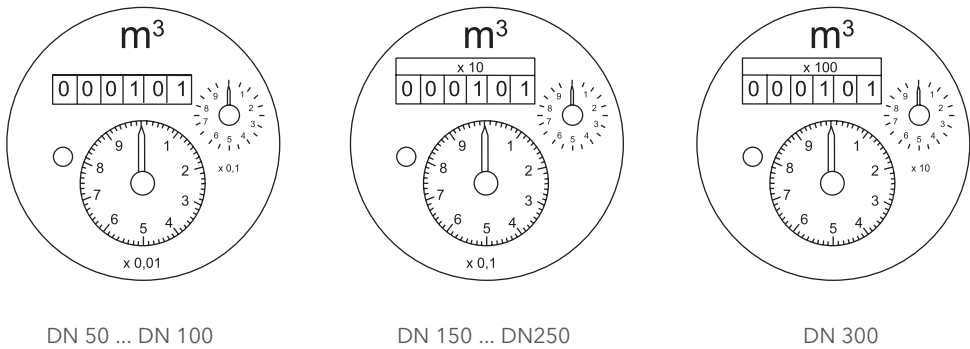
DIMENSIONS AND WEIGHTS

Nominal Diamter		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	40	25	25
Overall length	L	mm	200	225	250	300	350	450	500
Height	H	mm	175	175	175	233	233	321	321
	h	mm	82	100	110	135	162	194	219
	g	mm	360	360	360	470	470	680	680
Weight	meter	kg	15	18	24	43	57	118	154
	meas. unit	kg	3	3	3	9	9	22	22
	body	kg	12	15	21	34	48	96	132

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Dials



PULSE VALUES

Nominal Diameter	DN		50 ... 100 1 pulse $\hat{=}$...	150 ... 250 1 pulse $\hat{=}$...	300 1 pulse $\hat{=}$...
Cold water meter	Standard	R 01		10 m ³ 1m ³	100 m ³ 10 m ³
Hot water meter	Standard	R 02	0.25 m ³ 0.1 m ³	2.5 m ³ 1 m ³	25 m ³ 10 m ³
	With special register	R 02	0.25 m ³ 0.025 m ³	2.5m ³ 0.25 m ³	25 m ³ 2.5 m ³
Cold water meter		OP 01 OP 03		0.01 m ³ 0.1 m ³	0.1 m ³ 1.0 m ³
Hot water meter		OP 02 OP 04	0.001 m ³ 0.01 m ³	0.01 m ³ 0.1 m ³	0.1 m ³ 1.0 m ³

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



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