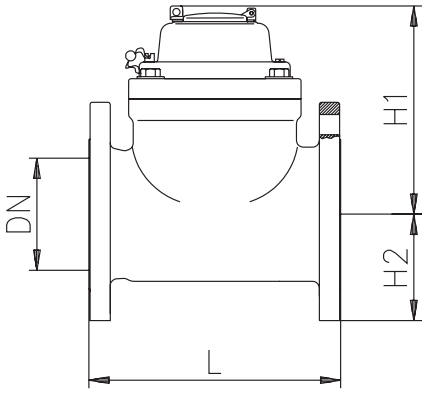
WPH-N

Woltman meter with parallel turbine shaft

Woltman Parallel type meters are always used when high flow rates with a relative constant flow rate profile are to be measured. Through its robust construction they not only are capable of covering a large measuring range, but the measuring accuracy is also long-term stable.

The hydrodynamic optimized turbine is reliably operated already at small flow rates and “upwards” it has enough power reserves to reliably measure flow rate peaks. Especially strong bearings with low friction guarantee a long life of the meter.

Reed sensors, optical and inductive-NAMUR sensors can always be retrofitted without damaging the calibration seal. Then the meter can be integrated with data communication or automation and control systems in a simple and flexible way.



Dimensions WPH-N

Performance characteristics in overview

- Low starting flow, high overload security
- Wide measuring range
- Removable measuring insert
- Low head loss
- Hydraulic bearing relieve for long-term measuring stability
- Retrofittable with active and passive pulsers
- Metal protective cover serially, plastic optional
- Evacuated counter protected from condensation
- Dry dial counter with large number rollers simplifies the readability
- For cold water up to 30ºC, with security up to 50ºC
- For horizontal, vertical and inclined installation positions
- High pressure model PN25/40 upon request

Technical data WPH-N								
Nominal flow	Qn	m³/h	15	15	25	40	60	100
Nominal diameter	DN	mm	40	50	65	80	100	125
Overall length	L	mm	200	200	200	225	250	250
Metrological class			B	B	B	B	B	B
Maximum flow (short-term)	Qmax	m³/h	60	90	120	150	250	300
Maximum flow (constant)		m³/h	30	45	60	90	125	170
Minimum flow	Qmin	m³/h	0,35	0,35	0,45	0,8	1,5	3
Flow rate with 0.1 bar head loss		m³/h	20	30	50	70	100	150
Head loss at Qmax		bar	0,2	0,1	0,1	0,2	0,2	0,2
Display range	min	l	2	2	2	2	2	2
	max	m³	9.999.999	9.999.999	9.999.999	9.999.999	9.999.999	9.999.999
Maximum temperature		°C	50	50	50	50	50	50
Operating pressure, max.	PN	bar	16	16	16	16	16	16
Height	H	mm	206	200	208	255	275	290
Flange diameter	D	mm	150	165	185	200	220	250

Technical data WPH-N								
Nominal flow	Qn	m³/h	150	250	400	600	1000	1500
Nominal diameter	DN	mm	150	200	250	300	400	500
Overall length	L	mm	300	350	450	500	600	800
Metrological class			B	B	B	B	B	B
Maximum flow (short-term)	Qmax	m³/h	350	650	1200	1500	2500	4000
Maximum flow (constant)		m³/h	250	325	600	700	1250	2000
Minimum flow	Qmin	m³/h	3,5	6,5	12	18	30	45
Flow rate with 0.1 bar head loss		m³/h	200	650	1000	1500	2500	4000
Head loss at Qmax		bar	0,2	0,05	0,05	0,05	0,05	0,05
Display range	min	l	20	20	20	20	200	200
	max	m³	9.999.999	9.999.999	9.999.999	99.999.999	99.999.999	99.999.999
Maximum temperature		°C	50	50	50	50	50	50
Operating pressure, max.	PN	bar	16	16	16	16	16	16
Height	H	mm	305	375	470	495	635	740