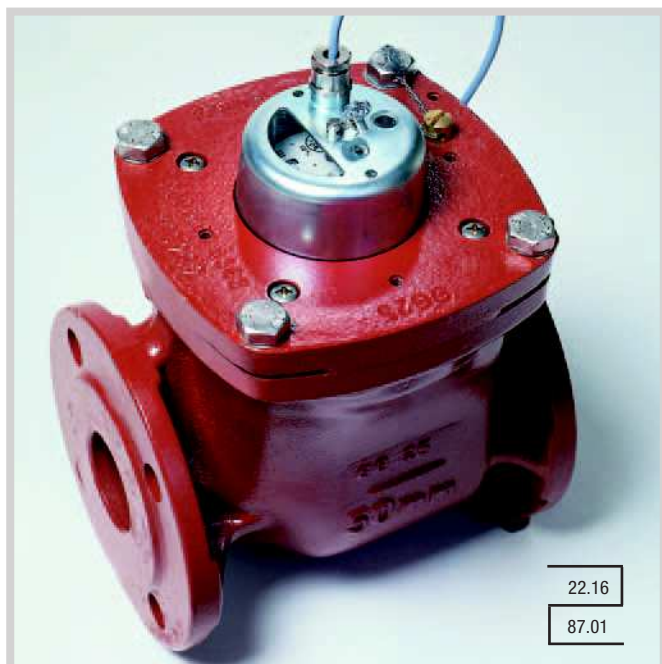
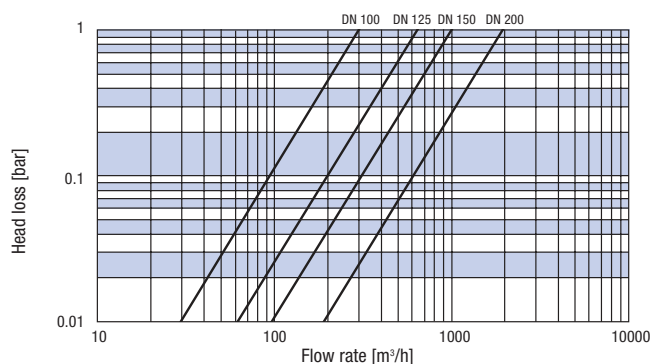




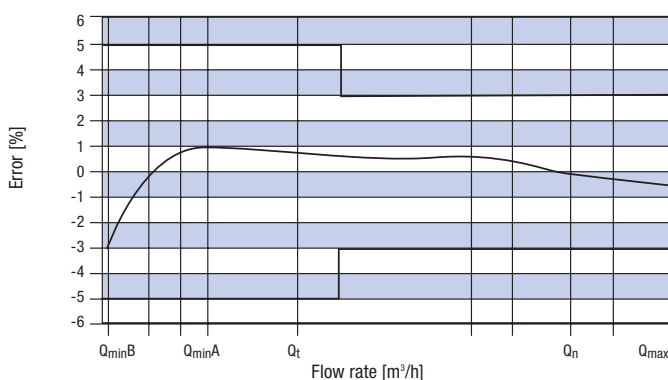
NOTE

HYDROMETER contact water meter model 456 can be supplied calibrated on request. The meter is tested for compliance with the figures specified in the calibration regulations.

HEAD LOSS GRAPH FOR WP-XKA/WPH-XKA



TYPICAL ERROR GRAPH FOR WP-XKA/WPH-XKA



APPLICATION

- ☐ For installation in any position
- ☐ For hot water up to 120 °C (up to 130 °C with counter extension)
- ☐ Construction dimensions to DIN ISO 4064, DN 50 – 300 (DN 400 and DN 500 on request)
- ☐ Operating pressure up to 16 bar (PN up to 40 bar on request)
- ☐ Contact rating (without series resistor) max. 24 V (SELV), 0.2 A
- ☐ Volume measuring component for measuring heat for billing hot water consumption. Facility for remote transmission of flow rates

FEATURES

- ☐ Easily replaceable reed switch
- ☐ Completely dry-running – no gears in the wet chamber
- ☐ Encapsulated, evacuated and waterproof counter
- ☐ Condensation-proof transparent cover for unobstructed reading
- ☐ Meter head can be turned to any position for easier reading
- ☐ Outstanding long-term accuracy achieved by mounting vane in ring sapphire and carbide bearing
- ☐ Sealed shield protects against magnetic interference
- ☐ The reed switch is fitted with a 100 Ω , 1/4 W protective resistor (cable length 3 m). Can be ordered without resistor
- ☐ Very low head loss

NOTE

When using the contact water meters as volume measuring components, we recommend that the meters are selected so that the head loss of 0.1 bar is not exceeded at maximum load!

TECHNICAL DATA

Model	456							
Type		WP-XKA				WPH-XKA		
Nominal diameter	DN mm	100	125	150	200	250	300	
Nominal flow rate	Q _n m³/h	60	100	150	250	400	600	
Continuous load	m³/h	70	100	150	250	400	600	
Maximum flow rate (short-term+factory data)	Q _{max} m³/h	180	250	350	600	800	1000	
Flow rate at 1 bar head loss	m³/h	95	200	310	610	1300	2000	
Transition flow limit	Q _t m³/h	9	15	22.5	37.5	45	50	
Lower measuring range limit	Q _{min} m³/h	2	3	4.5	8	25	30	
Starting flows	l/h	500	800	2000	2200	10000	15000	
Flange - dimensions to DIN 2501/PN 16	Outer Ø	D mm	220	250	285	340	405	460
	Hole pitch Ø	K mm	180	210	240	295	350/355	400/410
Number of bolts		Quantity	8	8	8	8/12	12	12
Height	H mm	200	200	217	217	240	270	
	h mm	110	125	145	172	203	230	
Length to DIN 19625	L mm	250	250	300	350	450	500	
Dial indication range	min. l	0.05	0.05	0.5	0.5	0.5	0.5	
	max. m³	10 ⁶	10 ⁶	10 ⁷	10 ⁷	10 ⁷	10 ⁷	
Weight	kg	19.8	22.4	32.5	45	108	136	
Flow resistance coefficient Zeta		18	9.9	8.6	7.0	3.8	3.3	

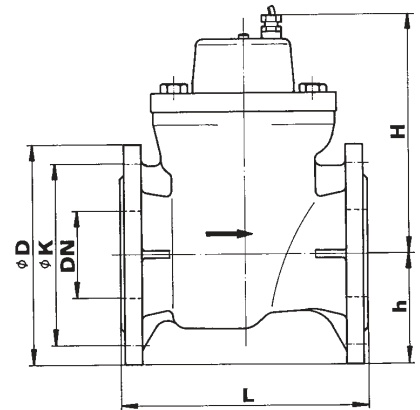
Available pulse rates:

WP-XKA 50 - 125 25 · 100 · 250 · 1000 litres/pulse

WP-XKA 150 - 300 250 · 1000 · 2500 · 10000 litres/pulse

DN 250 + 300 without approval. Minor technical changes may occur in the course of further development.

DIMENSIONS



ORDER REFERENCES

Model	DN / PN	Type designation	l/pulse	Overall length	Temperature	Connection	*Metrol. cl.	Article number
456	100 / 16	WP-XKA	100	250 mm	120 °C	FI /8-hole	A•H/V	456 000 65
456	100 / 16	WP-XKA	250	250 mm	120 °C	FI /8-hole	A•H/V	456 000 68
456	125 / 16	WP-XKA	100	250 mm	120 °C	FI /8-hole	A•H/V	456 000 81
456	125 / 16	WP-XKA	250	250 mm	120 °C	FI /8-hole	A•H/V	456 000 84
456	150 / 16	WPH-XKA	100	300 mm	120 °C	FI /8-hole	A•H/V	456 000 90
456	150 / 16	WPH-XKA	250	300 mm	120 °C	FI /8-hole	A•H/V	456 000 93
456	200 / 10	WPH-XKA	250	350 mm	120 °C	FI /8-hole	A•H/V	456 001 06
456	200 / 10	WPH-XKA	250	350 mm	120 °C	FI /8-hole	A•H/V	456 001 16
456	200 / 16	WPH-XKA	250	350 mm	120 °C	FI /12-hole	A•H/V	456 001 10
456	200 / 16	WPH-XKA	1000	350 mm	120 °C	FI /12-hole	A•H/V	456 001 08
456	250 / 16	WPH-XKA	250	450 mm	120 °C	FI /12-hole	no approval	456 001 21
456	250 / 16	WPH-XKA	1000	450 mm	120 °C	FI /12-hole	no approval	456 001 20
456	300 / 16	WPH-XKA	1000	500 mm	120 °C	FI /12-hole	no approval	456 001 29

* tested to the metrological class indicated!

NOTE

The types listed in the order references are standard meters.

Explanation of type designations:

W : Woltman meter

H : removable measuring insert

K : pulse output

P : impeller axis parallel to direction of flow

X : counter type

A : metal shield