

Bulk Water Meter

Elin Wasserwerkstechnik



Woltman Meter WP
Model 222



Features

- Nominal diameter DN50-DN500
DN500-DN1000 on request
- Cold water up to 30 °C
(safe up to 50 °C)
- Operating pressure up to 16 bar
PN40 on request
- Flange to DIN 2501 and DIN 2533
- Complete head unit with counter
and sensors can be rotated by 350°
for easier reading
- Overall lengths to DIN 19625 and
DIN ISO 4064
- Can be installed in any position
- EEC approval for metrological
classes A/B
- Reverse running: Can be calibrated
on request up to DN 65
- Removable measuring insert
- Sealed measuring insert for better
accuracy in all installation positions
- Outstanding longterm accuracy
through hydraulic bearing relief
- Wear-resistant plastic bearing
- Integrated measurement outputs as
standard

- Sensors for remote readout (digital)
and flow measurement (analogue)
can be retrofitted on site without
affecting calibration
- Up to two different digital outputs
and one analogue output simultane-
ously
- Sensors for forward and reverse
metering
- Service-friendly handling

Application

- Encapsulated counter of glass/
copper, protection class IP 68
(waterproof up to 5 m)
- Integral part of the FLYPPER®
system
- Available with FLYPPER® electronic
counter module for flow rate moni-
toring, data acquisition and remote
data reading – protection class IP 68,
waterproof

DIEHL
Hydrometer Gruppe



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Model	222												
Type	WP												
Nominal diameter	DN mm	50	65	80	100	125	150	200	250	300	400	500	
Meter size to DIN ISO 4064	Q _n m ³ /h	15	25	40	60	100	150	250	400	600	1000	1500	
Performance data WP													
Permissible continuous load	Q _n m ³ /h	30	50	120	230	250	250	325	600	700	1,250	2,000	
Maximum load (1 x 24 h)	Q _{max} m ³ /h	90	120	200	300	350	350	650	1,200	1,500	2,800	4,200	
Starting	m ³ /h	0.09	0.13	0.16	0.19	0.19	1.5	2.5	5	10	15	20	
Horizontal	Transition flow	Q _t m ³ /h	3	5	8.0	12.0	20	30	50	80	120	200	300
	Lower measuring range limit	Q _{min} m ³ /h	0.45	0.75	1.2	1.8	3.0	4.5	7.5	12	18	30	45
Vertical	Transition limit	Q _t m ³ /h	3	5	8.0	12.0	20	30	50	80	120	200	300
	Lower measuring range limit	Q _{min} m ³ /h	0.45	0.75	1.2	1.8	3.0	4.5	4.5	12	18	30	45
Flow rate at 0.1bar head loss	m ³ /h	35	63	115	115	105	310	550	800	1,250	3,000	6,000	
Overall length	L mm	200	200	225 (200)	250	250	300	350	450	500	500	500	
Height (below centre axis) PN16/PN40	H mm	75	83	89	105	115	135/143	163/180	193	230	290	360	
Height (above centre axis)	h mm	123	123	154	154	154	245	245	242	290	311	361	
Height for removing insert	A mm	225	225	275	275	275	475	475	472	520	580	660	
Width (PN16)	B mm	155	155	200	220	250	285	340	405	460	580	715	
Flange diameter (PN16)	D mm	165	185	200	220	250	285	340	405	460	580	715	
Hole circle (PN16)	K mm	125	145	160	180	210	240	295	350/355	400/410	515/525	620/650	
Number of screwhole diameter (PN16)		4	4	8/4	8	8	8	8/12	12	12	16	20	
Screwhole diameter (PN16)	l mm	18	18	18	18	18	22	22	23/27	23/27	27/30	27/33	
Niminale pressure	bar	16	16	10/16	16	16	16	10/16	10/16	10/16	10/16	10/16	
Weight [PN16]	kg	10.2	11.2	13	16	21.5	39	47	75	165	190	300	
Weight [PN40]	kg	11.2	12.2	13	16.5	-	43	60	-	-	-	-	
Pulse values													
Pulse output (reed) model 570	L/pulse	100				1,000				10,000			
		1,000				10,000				100,000			
Pulse output (reed) model 570 Special version	L/pulse	25 • 50 • 250 • 500				250 • 500 • 2,500 • 5,000				2,500 • 5,000 25,000 • 50,000			
IR transmitter model 573	L/pulse	1				10				100			

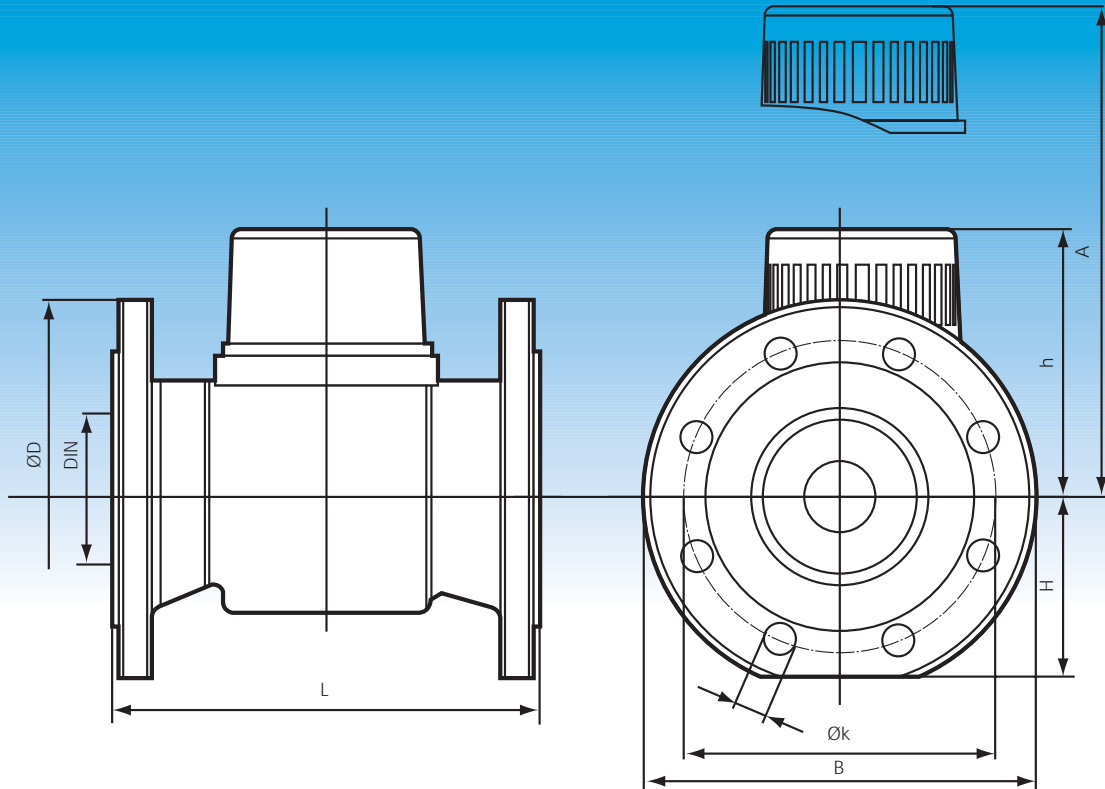
Minor technical changes may occur in the course of further development.

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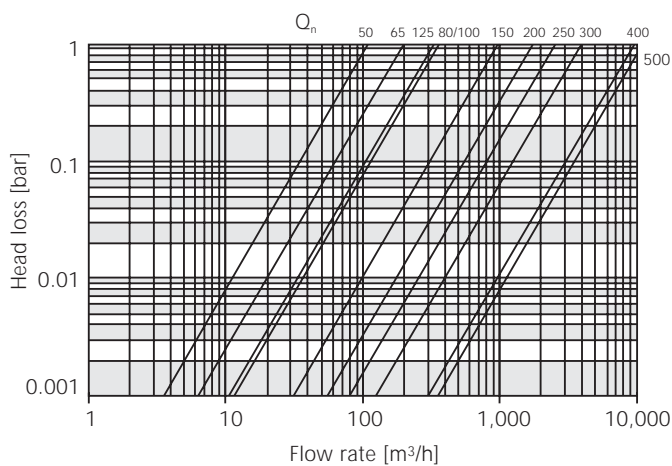
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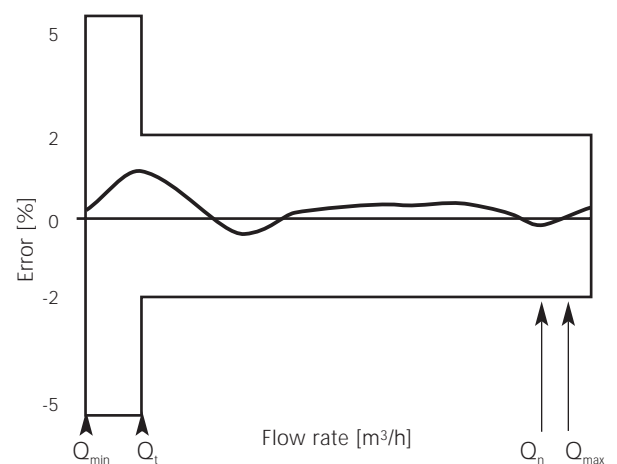
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Head loss graph WP



Typical error graph WP



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