

Belanto

WATER METER

— M.I.D. APPROVED —

WP-SDC
COPPER CAN
REGISTER



WOLTMAN
WATER METER



Belanto Water Meter

WP-SDC Copper Can Register

Woltman (Turbine)

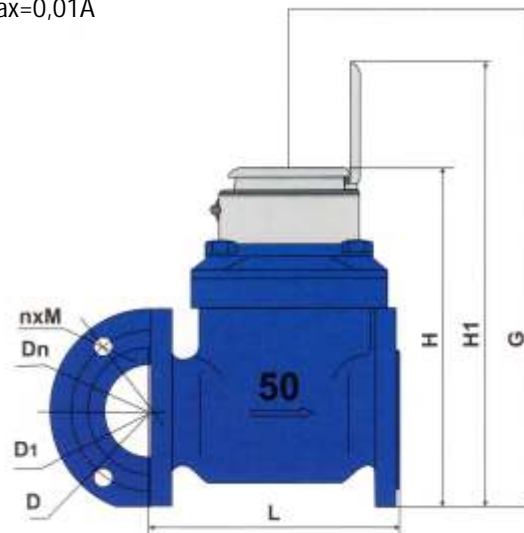
Belanto WP-SDC is TURBINE Woltman water meter with magnetic transmission, super dry type register for industrial and irrigation application has the sizes from Dn40 to Dn500 designed by Belanto and meets to the requirements of Directive 2004/22/EC on measuring instruments and of European Standard EN14154.

CHARACTERISTICS:

- All the materials in contact with water, consciously selected by the known resistance to corrosion;
- Iron body with inside and outside epoxy coating for protecting the corrosion;
- The ROTATING indicator register for the most comfortable reading position;
- The copper can super dry register with IP68 protection;
- The Interchangeable, removable measuring mechanism can be easily removed from the body for checking, maintaining and replacing, no needs to dismantle the body from the pipe;
- Suitable for any position installation;
- Low pressure loss;
- No effected by external magnetic fields;
- Pulse output always ready, and Pulse output AS OPTION.
 - The Pulse Output Device consists of a plastic housing with a Reed Switch, and 1,5 m cable with 2 cores in Red and Black.
 - Electric data: $V_{max}=24AC/DC$; $I_{max}=0,01A$
 - Capacity of the Pulse Emitter:



Size	m ³ /pulse	
Dn40 to Dn125	0.1	1
Dn150 to Dn200	1	10
Dn250 to Dn500	10	100



DIMENSIONS

DN	40	50	65	80	100	125	150	200	250	300	350	400	500
L	260	200	200	225	250	250	300	350	450	500	500	600	800
H	225	252	262	272	282	297	341	371	480	516	560	647	785
H1	303	339	349	359	369	384	428	458	576	603	603	723	838
G	360	400	400	400	400	400	500	500	710	730	730	830	930
D	150	165	185	200	220	250	285	340	405	460	520	580	715
D1	110	125	145	160	180	210	240	295	355	410	470	525	650
nxM	4xM16	4xM16	4xM16	8xM16	8xM16	8xM20	12xM20	12xM20	12xM24	12xM24	16xM24	16xM27	20xM30

DN	40	50	65	80	100	125	150	200	250	300	350	400	500
L	X	250	250	200	300	X	430	X	X	X	X	500	500
L	X	270	260	270	360	X	X	X	X	X	X	X	X
L	X	310	X	300	483	X	X	X	X	X	X	X	X
L	X	X	X	413	X	X	X	X	X	X	X	X	X

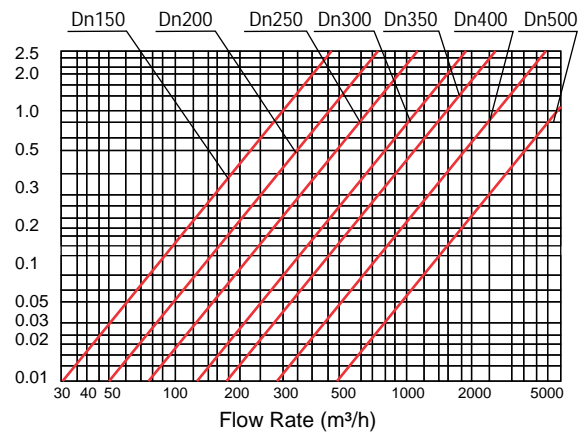
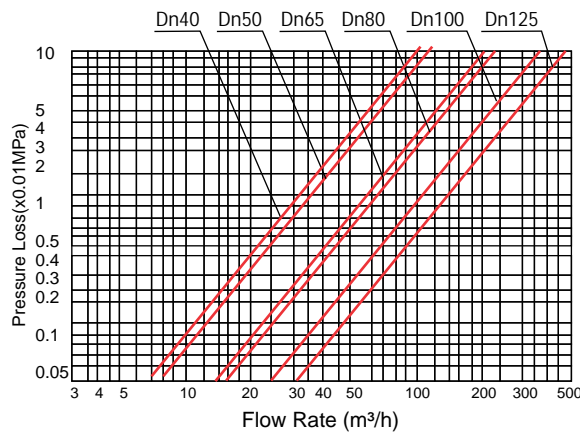
*Different Flange Standard for selecting such as: ISO 7005-2: 1998(E) PN10, ASME B16.1-Class125 working forB16.5-Class 150...

*Different Length of the Body as option:

TECHNICAL DATA

SIZE	mm	40	50	65	80	100	125	150	200	250	300	350	400	500	
R=Q3/Q1		50	80												
Q4	m³/h	31,325	50	78,75	78,75	125	200	312,5	500	787,5	1250	1250	2000	3125	
Q3	m³/h	25	40	63	63	100	160	250	400	630	1000	1000	1600	2500	
Q2	m³/h	0,8	0,8	1,26	1,26	2	3,2	5	8	12,6	20	20	32	50	
Q1	m³/h	0,5	0,5	0,7875	0,7875	1,25	2	3,125	5	7,875	12,5	12,5	20	312,5	
Max. Reading	m³	999999.999					9999999.99					99999999.9			
Min. Reading	m³	0,0005					0,005					0,05			
Pressure Loss	P	10	16	10	10	10	16	10	10	10	10	10	10	10	
Max. Pressure	MAP	MAP16													
Max. Temperature	°C	T30 or T50													

PRESSURE LOSS CURVE



Max. Permission Error:

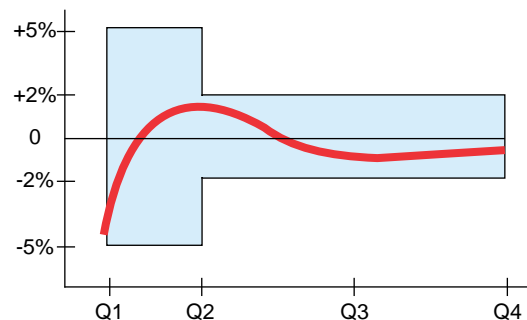
From Q1 inclusive up to but excluding Q2 is $\pm 5\%$;

From Q2 inclusive up to and including Q4 is $\pm 2\%$

for T30 and $\pm 3\%$ for T50;

INSTALLATION

- The water meter could be install in any position, for non horizontal positions the flow shall upwards.
- The meter shall be full of water while operation.
- Prior to installation of a meter, the pipeline shall be thoroughly flushed.
- Straight pipe section of the same diameter D as the meter, having length of 10D and 5D shall be installed upstream and downstream of the meter respectively.



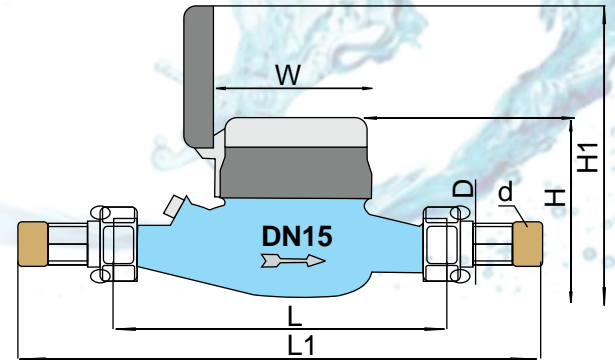
Belanto Water Meter - Multi G

Multi-Jet Dry Type

Belanto MULTI G is IMPELLER (turbine) water meter with magnetic transmission, dry type register for residential application with sizes from Dn15 to Dn25 designed by Belanto and meets to the requirements of Directive 2004/22/EC on measuring instruments; the European Standard EN14154+A1+A2: <Water Meter>; the International Organization of Legal Metrology OIML R-49: 2006(E): <Water meters intended for the metering of cold potable water and hot water.

CHARACTERISTICS:

- All the materials in contact with water, consciously selected by the known resistance to corrosion;
 - Cold water meter under current standard for lower than 30 C(T30), but Belanto MULTI G can be used safely in water temperature up to 50 C(T50);
 - The ROTARY indicator register for the most comfortable reading position of 7 Rollers and 2 Pointers;
 - The ROTARY plastic cap and lid for the most comfortable installation;
 - The Impeller is the only moving parts in contact with water permitting the most reliable;
 - The inlet filter at the inlet of the meter body permits cleaning it without breaking the metrological seal; Internal filter as option;
 - The conception of the Magnetic Protection to against the external influences;
- Non return Valve to avoid the reserve flow Rate AS OPTION;



SIZE	Dn	Dn15	Dn20	Dn25
Metrological Class	B	B	B	B
Qmax	m³/h	3	5	7
Qn	m³/h	1.5	2.5	3.5
Qt	l/h	120	200	280
Qmin	l/h	30	50	70
Max. Reading	m³	99999,9999		
Min. Reading	Liter	0,05		
Pressure Loss	Bars	P<1 at Qmax P<0.25 at Qn		
Max. Pressure	Bars	PN16		
Max. Temperature	°C	40		

Size	Dn15	Dn20	Dn25
L	165	190	260
L1	259	294	380
D	G3/4B	G1B	G 1 1/4 B
d	R1/2	R3/4	R1
H	90	90	112
H1	145.5	145.5	190
W	77.5	77.5	95.5

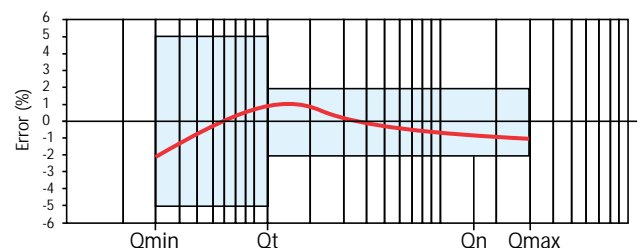
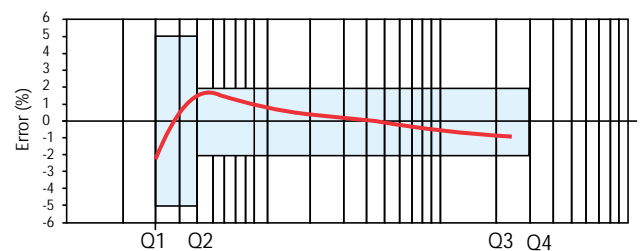
SIZE	mm	Dn15	Dn20	Dn20
R	Q³/Q¹	80	80	80
Q4	m³/h	3,125	5	3,125
Q3	m³/h	2,5	4	2,5
Q2	l/h	50	80	50
Q1	l/h	31,25	50	31,25

Specification AS OPTION

R	Q³/Q¹	50	50	50
Q4	m³/h	2	3,125	2
Q3	m³/h	1,6	2,5	1,6
Q2	l/h	51.2	80	51.2
Q1	l/h	32	50	32
Max. Reading	m³	99999,9999		
Min. Reading	Liter	0.05		
Pressure Loss	P	P<63 at Q3		
Max. Pressure	MAP	MAP16		
Max. Temperature	°C	T30 or T50		

Max. Permission Error:

From Q1 inclusive up to but excluding Q2 is ± 5%;
From Q2 inclusive up to and including Q4 is ± 2%
for T30 and ± 3% for T50;



Belanto (B.M. Water Meter)

Removable Horizontal Dry Type Woltman Meter with Pulse Output

Accuracy :

- From minimum flow-rate (qmin) inclusive, to transitional flow-rate (qt), exclusive: ±5%
- From transitional flow-rate (qt) inclusive, to overload flow-rate (qs), exclusive: ±2% (Hot water meter: ±3%)

Working Condition:

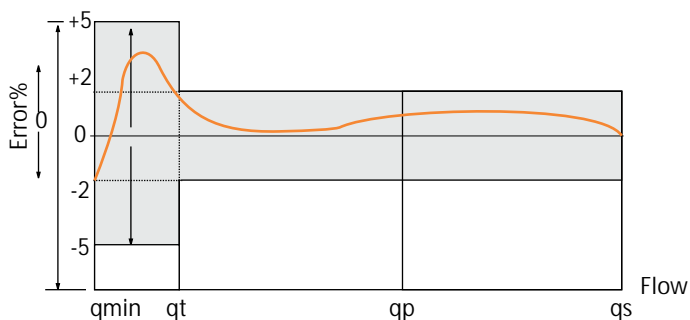
- Water temperature < 50°C (Hot water meter < 90°C)
- Water pressure < 1MPa (PN: 1.6MPa/16bar)
- $\Delta P < 0.03$ MPa

Features:

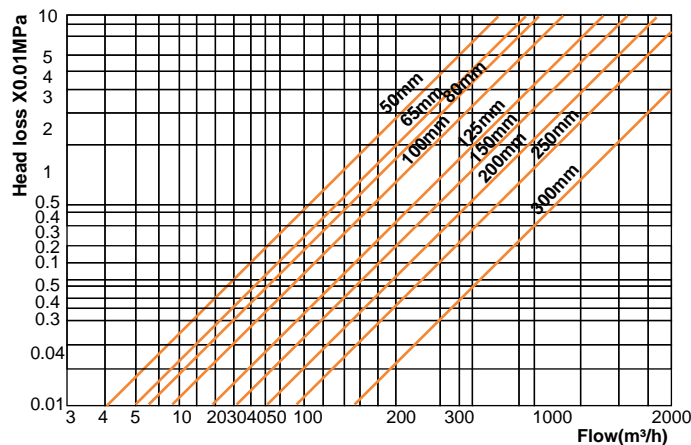
- Dry-dial, magnetic drive
 - Vacuum sealed register, frost resistant, keeps clear reading for long time
 - Removable measuring unit, easy installation and maintenance
 - Measuring high flowrate with low head loss.
 - Remote transmission device can be added upon request
- Many kinds of sensors, such as Reed Switch, hall and Weagand can be supplied upon request.
- Pulse output may be 10L/Pulse, 100L/Pulse, 1000L/Pulse
- The meters conform to ISO4064 Standard Class B



Error Curve



Head loss Curve

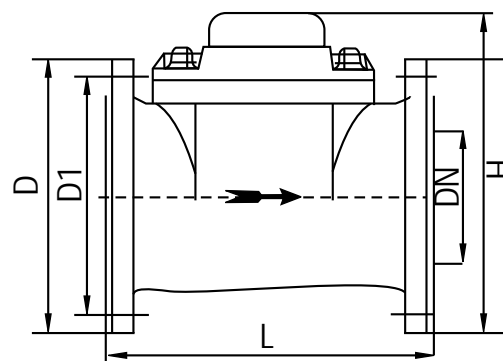


TECHNICAL DATA:

NOMINAL SIZE DN (mm)	Class of measurement	Overload flow-rate qs(m ³ h)	Permanent flow-rate qp(m ³ h)	Transitional flow-rate qt(m ³ h)	Minimum flow-rate qmin(m ³ h)	Minimum Reading min(m ³)	Maximum Reading max(m ³)
50	B	30	15	3.0	0.45	0.01	999999
65	B	50	25	5	0.75	0.01	999999
80	B	80	40	8	1.2	0.01	999999
100	B	120	60	12	1.8	0.01	9999999
125	B	200	100	20	3	0.1	9999999
150	B	300	150	30	4.5	0.1	9999999
200	B	500	250	50	7.5	0.1	9999999

OVERALL DIMENSIONS AND WEIGHT

Size (mm)	Length (mm) L	Width (mm) W	Height (mm) H	Output diameter of flange D(mm)	The center diameter of connecting bolt D1(mm)	Connecting bolt (Pcs.)	Weight (kg)
50	200	165	247	165	125	4xM16	12
65	200	185	260	185	145	8xM16	13
80	225	200	264.5	200	160	8xM16	15
100	250	220	271.5	220	180	8xM20	19
125	250	250	295	250	210	8xM20	23
150	300	285	301.5	285	240	8xM20	30
200	350	340	358.5	340	295	12xM20	42



A PRODUCT OF:
B.M. WATER METERS

Email: info@bmwatermeters.com

Belanto Water Meter

Mechanical Meter

Petroleum Metering equipment & Accessories

Mechanical volumetric flow-meter for private use, with Nutating-disc type chamber for delivers to 120 LPM. It can be installed for gravitational feeding, as well as for hand operated or electric transfer pumps with by-pass arrangement.

Performance

Recommended Flow Range : 20 to 120 LPM

Rated Accuracy : $\pm 2\%$

Maximum Pressure : 50PSIG / 4.46kg/cm²

Meter Digit Indication : 9999 Liters (Resettable)

99999999 Liters (non Resettable)

Temperature Range :- 10° C to 50°C

Fluid Compatibility

The DM-01 series meters are compatible with the following fluids:

Diesel Fuel, Gasoline, Kerosene, Methanol



DM - 01



Strainer must required inlet of the oil meter.

Belanto Water Meter

Electronic Digital Oval Gear Flow Meter

High accuracy, Everlasting, Small Volume Oval Gear flowmeter Module design can be used with output module, sensor and long-distance transfers. Has the same function it is easy to change the spare parts inside, and easy to maintain it is easy to assembling as its cabinet and compact design Lithium battery can supply 9000 hours Technical performance.

Technical Performance:

Connecting Style: NPT / BSPP thread

Material : Aluminum weight: about 0.8 kgs.

Flow range : 20mm (3/4") 2.6 - 75.7 LPM
25MM (1") 18.9-190 LPM
40MM (1-1/2") 38.0 - 380 LPM

Accuracy : 20mm $\pm 0.1\%$, 25mm $\pm 1.0\%$, 40mm $\pm 0.5\%$

Repetition: $\pm 0.1\%$

Pressure class:

Max. Pressure : 300 psi

working pressure : 2-10 bar

supposed fitter dimension : 55 mesh



DM - 02

Strainer must required inlet of the oil meter.

Belanto Water Meter

Vortex Steam Flow Meter

The DM-03 as a compact flow meter in a flange/sandwich version is suitable for universal use in measuring liquids, gases and vapors.

The temperature compensation for saturated steam is integrated as standard, thus enabling direct compensation of the density: the mass and energy can also be measured.

Size: 15mm - 300mm

2-wire device with integrated pressure and temperature compensation.

Non-wearing, fully welded stainless steel construction with high corrosion, Pressure and temperature resistance.

Ready to use immediately thanks to plug & play.

Maintenance-free sensor design.

Use for:

Chemical, Oil & gas, Power Plants, Iron, Steel and Metal, Paper, and Pulp, Water & Automotive.

Vapor and saturated steam measurement.

Steam boiler monitoring.

Monitoring of Compressor output.

Measurement of consumption of industrial gases.

SIP and CIP processes in the food, beverage and pharmaceutical industries.

Measurement of consumption and non-conductive liquids.

DM - 03



A PRODUCT OF:

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