2024

Catalog

Water meter

CIDONG is a prestigious company that has been designing, manufacturing, and exporting water meters and related accessories for different utilities, for over 40 years of experience. Our products are used in over 40 countries in the world, and hundreds of millions of water meters are being used in the buildings, households and factories in all the parts of the world. Initial establishment is in Korea, and then we have moved to China to widen our business scales to focus on export markets. Up to present, we have gained the immense success in exporting to all 5 continents.









Company profile

We specialize in providing complete dimensions of water meters from DN15 to DN600. Our product line includes Woltman Water Meters, Agriculture Irrigation Water Meters, Pulse Remote Reading Water Meters, and so on. Dedicated to premium and thoughtful customer service, our experienced staff members are always available to discuss requirements with clients and provide reliable solutions to ensure full customer satisfaction. Customized OEM and ODM orders are always welcomed.

The company is certificated with ISO 9001 and ISO 4064. Also, we gain the MID Certificate for water meter with flanged connection. We have strict quality control at all stages of manufacturing from Injection to assembly. All meters will go through 100% flow testing and 100% pressure testing in the workshop under professional procedures. Our monthly production can reach 150,000 units, which puts us in a leading position in the industry of water meters. Nowadays we have already achieved success in Eastern Europe, Western Europe, Mid-East, and South Asia, which helps us to get a more comprehensive view of the global water meter market landscape. Each year, we supply to the market over 4 million, units, and many of which are exported to international markets.



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Water meter manufacturer



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Water Meter Parts

LXLC - (50-300)

Removable Horizontal Woltman Water Meter

❖ Technical Specifications

- Temperature class: Cold water 0°C - 40°C
- Hot water 40°C - 90°C
- Working pressure: PN16
- Communication modes: RS-485, M-BUS *
- Communication Transmission Rate: 1200/2400bps
- Maximum Communication Transmission Distance: 1200mm



MID
Measuring Instrument Directive
2014/32/UE - Approved

❖ Features

- Accuracy Class 2
- Register can be rotated through 360°
- Horizontal installation
- Grey or ductile iron casting meter body with epoxy coating
- Cubic meter register
- Sealed dry-dial register for clear readings
- Interchangeable mechanism
- Protected against disturbances caused by magnetic fields
- Large flow capacity and Low-pressure loss
- Maximum permissible errors in the low area (Q1≤Q≤Q2) are ±5%.
- Maximum permissible errors in the high area (Q2≤Q≤Q4) are ±2%

Type	(mm)	Metrological Class		Q3	Min	Max	L	W	H	Weight (Kg)	Pulse options (l/imp)
		Q3/Q1	Q2/Q1	m3/h	m3		mm				Standard
LXLC-50	50	R50 R63 R80 R100 R160	1.6 2.5 4.0 6.3	16	0.001	9,999,999	200	185	250	11	10-1000
LXLC-65	65			25/40	0.001	9,999,999	200	185	250	12.5	10-1000
LXLC-80	80			40/63	0.001	9,999,999	225	200	255	13.6	10-1000
LXLC-100	100			63/100	0.001	9,999,999	250	215	265	16	10-1000
LXLC-125	125			100/160	0.01	99,999,999	250	250	290	21	100-10000
LXLC-150	150			160	0.01	99,999,999	300	285	310	23	100-10000
LXLC-200	200			250	0.01	99,999,999	350	340	350	33	100-10000
LXLC-250	250			400	0.01	99,999,999	450	405	450	65	100-10000
LXLC-300	300			630	0.01	99,999,999	500	460	480	85	100-10000

* It can be combined with meter reading system to establish a remote automatic meter reading management system and truly realizing automatic meter reading



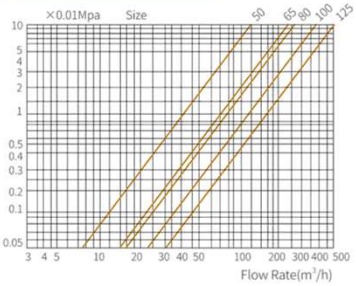


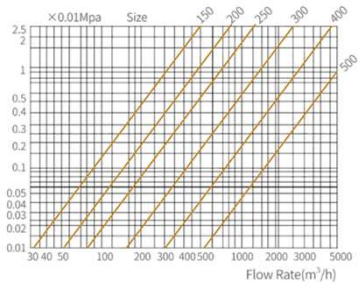
M-Bus RS485 Modbus



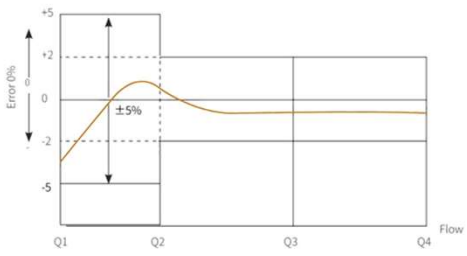


Pressure Loss Curve





Error Curve



LXLN - (50-300)

Waste & Agriculture Irrigation Woltman Water Meter

❖ Technical Specifications

- Temperature class: Cold water 0°C - 40°C
- Hot water 40°C - 90°C
- Working pressure: PN16
- Communication modes: RS-485, M-BUS *
- Communication Transmission Rate: 1200/2400bps
- Maximum Communication Transmission Distance: 1200mm



❖ Features

- Large flow capacity and small pressure lose.
- This type water meter is very fit for agriculture irrigation and bad water quality.
- High quality material applied to guarantee its function efficient and reliable.
- Magnet-drive, dry dial, protected by the steel cover, register sealed in vacuum,
- resistance to magnet and fog-proof, forever clean and legible dial for reading.
- Register may be rotated through 360°
- Removable mechanism is easy to replace or fix and not required detaching the body from the pipeline.
- Pulse emitter can be installed to this type for remote reading(option)
- Maximum permissible errors in the low area (Q1≤Q≤Q2) are ±5%.
- Maximum permissible errors in the high area (Q2≤Q≤Q4) are ±2%

Type	(mm)	Metrological Class		Q3	Min	Max	L	W	H	Weight (Kg)	Pulse options (l/imp)
		Q3/Q1	Q2/Q1	m3/h	m3		mm				Standard
LXLN-50	50	R20 R25 R40	1.6 4.0 6.3	25/40	0.001	9,999,999	200	185	253	10,5	10-1000
LXLN-65	65			40	0.001	9,999,999	200	185	268	12	10-1000
LXLN-80	80			63	0.001	9,999,999	225	200	284	15,5	10-1000
LXLN-100	100			100	0.001	9,999,999	250	215	295	17,5	10-1000
LXLN-125	125			160	0.01	99,999,999	250	250	310	19	100-10000
LXLN-150	150			250	0.01	99,999,999	300	285	339	30,5	100-10000
LXLN-200	200			400	0.01	99,999,999	350	340	382	44	100-10000
LXLN-250	250			630	0.01	99,999,999	450	405	450	70	100-10000
LXLN-300	300			1000	0.01	99,999,999	500	460	480	85	100-10000

* *It can be combined with meter reading system to establish a remote automatic meter reading management system and truly realizing automatic meter reading*





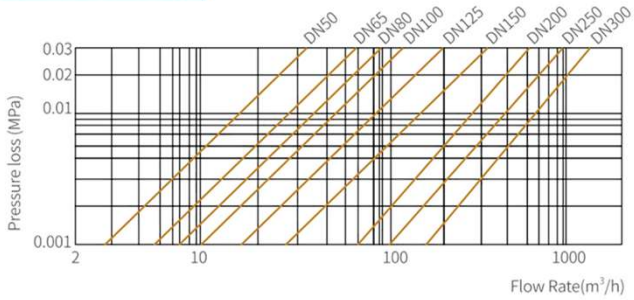




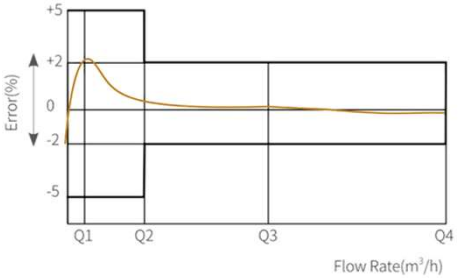


M-Bus RS485 Modbus

Pressure Loss Curve



Error Curve



LXSG - (15-50)

Multi Jet Dry Type Water Meter (LXSG)

❖ Technical Specifications

- Temperature class: Cold water 0°C - 40°C
- Hot water 40°C - 90°C
- Working pressure: PN16
- Class B (ISO 4064)
- Communication modes: RS-485, M-BUS *
- Communication Transmission Rate: 1200/2400bps
- Maximum Communication Transmission Distance: 1200mm



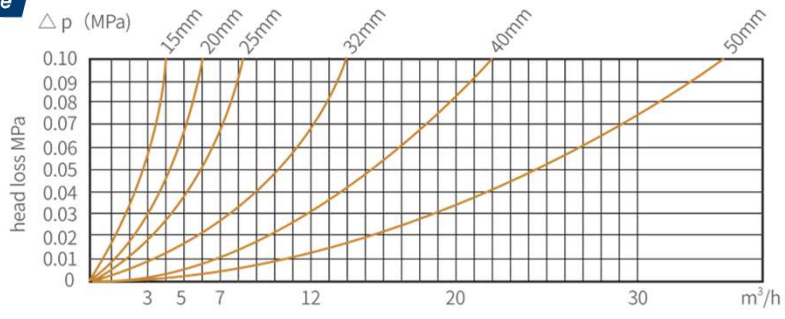
❖ Features

- Dry-dial, magnetic dive, protected against external magnetic tampering;
- Vacuum sealed register, frost resistant, keeps clear reading for long time;
- Brass body, cast iron body or plastic body, (optional) ;
- Internal or external adjusting device, (optional);
- Pulse, (optional);
- In the lower zone from Q1 inclusive up to but excluding Q2 is ± 5%;
- If the temperature ≤ 30°C, in the upper zone from Q2 inclusive up to and including Q4 is 2%;
- If the temperature > 30°C, in the upper zone from Q2 inclusive up to and including Q4 is ±3%.

Size	Qs	Qp	Qt	Qmin	Min	Max	L	W	H	Thread (Racco Included)	Pulse options (l/imp)
	m3/h		l/h		M3		mm				Standard
LXSG-15	3	1,5	120	30	0,0001	9,999	165/190	99	104	G 1/2"B	1/10L
LXSG-20	5	2,5	200	50	0,0001	9,999	190/195	99	106	G 3/4"B	1/10L
LXSG-25	7	3,5	280	70	0,0001	9,999	260/225	104	120	G 1" B	1/10L
LXSG-32	12	6	480	120	0,0001	9,999	260/230	104	120	G 1 1/4" B	1/10L
LXSG-40	20	12	800	200	0,001	99,999	300/245	120	155	G 1 1/2" B	10/100L
LXSG-50	30	15	3000	450	0,001	99,999	280/300	125	155	G 2" B	10/100L

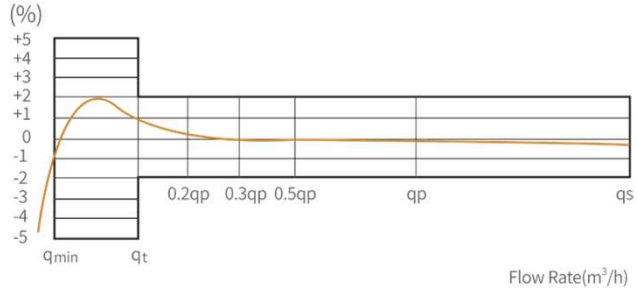
* It can be combined with meter reading system to establish a remote automatic meter reading management system and truly realizing automatic meter reading

Pressure Loss Curve





Error Curve





M-Bus *RS485 Modbus*

KLXC - B/P(15/20)

Single Jet Dry Type Water Meter (KLCX)

❖ Technical Specifications

- Temperature class: Cold water 0°C - 40°C
- Hot water 40°C - 90°C
- Working pressure: PN16
- Class B (ISO 4064)
- Optional communication modes: RS-485, M-BUS *
- Communication transmission rate: 1200/2400bps
- Maximum communication transmission Distance: 1200mm



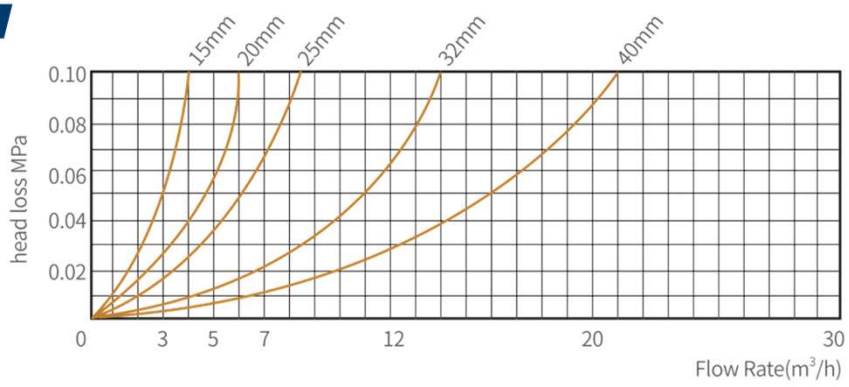
❖ Features

- Dry-dial, magnetic drive, protected against external magnetic tampering;
- Dry register and register with 5 or 8 number roller;
- Vacuum-sealed register, frost resistant, keeps clear reading for long time;
- Brass body or plastic body, optional;
- Brass body can be painted or nickel coated;
- High accuracy;
- Pulse optional;
- In the lower zone from Q1 inclusive up to but excluding Q2 is ± 5%;
- If the temperature ≤ 30°C, in the upper zone from Q2 inclusive up to and including Q4 is 2%;
- If the temperature > 30°C, in the upper zone from Q2 inclusive up to and including Q4 is ±3%.

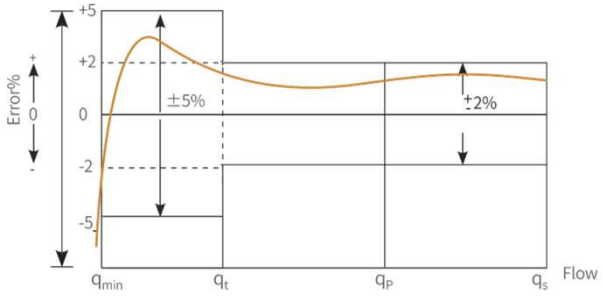
Size	Qs	Qp	Qt	Qmin	Min	Max	L	W	H	Thread	Material	Pulse options (l/imp)
	m3/h		l/h		m3		mm					Standard
KLXC - B15	3	1,5	120	30	0,0001	99,999	80/110	80	88	G 1/2"B	Brass	1/10L
KLXC - B20	5	2,5	200	50	0,0001	99,999	130	80	88	G 3/4"B	Brass	1/10L
KLXC - P15	3	1,5	120	30	0,0001	99,999	80/110	80	88	G 1/2"B	Plastic	1/10L
KLXC - P20	5	2,5	200	50	0,0001	99,999	130	80	88	G 3/4"B	Plastic	1/10L

* It can be combined with meter reading system to establish a remote automatic meter reading management system and truly realizing automatic meter reading

Pressure Loss Curve



Error Curve





M-Bus *RS485 Modbus*

KLXH - B/P(15/20)

Rotary Piston Water Meter (Volumetric Meter) (KLXH)

❖ Technical Specifications

- Temperature class: Cold water 0°C - 50°C
- Working pressure: PN16
- R160 – Class C
- Optional communication modes: RS-485, M-BUS *
- Communication transmission rate: 1200/2400bps
- Maximum communication transmission Distance: 1200mm



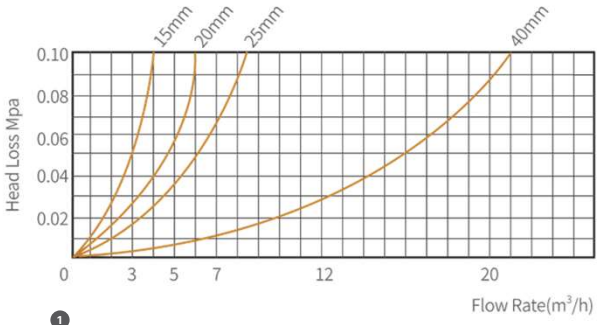
❖ Features

- A volumetric meter is the device fitted into a closed conduit ,which consists of chambers of known volume and a mechanism driven by the flow, whereby these chambers are successively fitted with water and then emptied.
- The water to be measured enters the inlet of the body and its pressure sets the piston into rotation.
- Every rotational cycle of the piston discharge a fixed volume of water to the meter of body
- The number of rotation of the piston is totalized through a reduction gear ,to totalize in the register , when the total volume of water is registered.
- In the lower zone from Q1 inclusive up to but excluding Q2 is ± 5%
- If the temperature ≤ 30°C, in the upper zone from Q2 inclusive up to and including Q4 is 2%

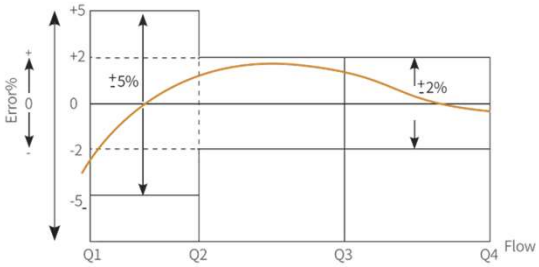
Size	Q1	Q2	Q3	Min	Max	L	W	Thread	Material	Pulse options (l/imp)
	l/h		m3/h	m3		mm				Standard
KLXH - B15	15.625	2.5	2.5	0,0001	9999,9999	115	90	G 1/2"B	Brass	1L
KLXH - B20	25	4	4	0,0001	9999,9999	165/190	96	G 3/4"B	Brass	1L
KLXH - P15	15.625	2.5	2.5	0,0001	9999,9999	115	90	G 1/2"B	Plastic	1L
KLXH - P20	25	4	4	0,0001	9999,9999	165/190	96	G 3/4"B	Plastic	1L

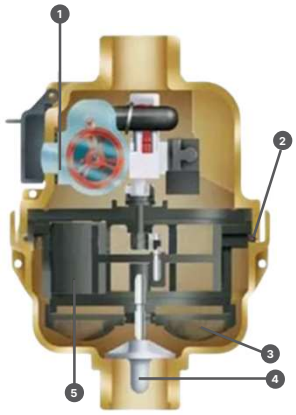
* It can be combined with meter reading system to establish a remote automatic meter reading management system and truly realizing automatic meter reading. It can be installed vertically or horizontally for these series

Pressure Loss Curve



Error Curve





1. Easy to read register
2. "O"ring seal
3. Strainer
4. Optional non-return valve
5. Grooved piston design gives long working life and reduces blockages



M-Bus RS485 Modbus



Racco included

KLXH - B/P(15/20)

Rotary Piston Water Meter (Volumetric Meter) (KLXH)

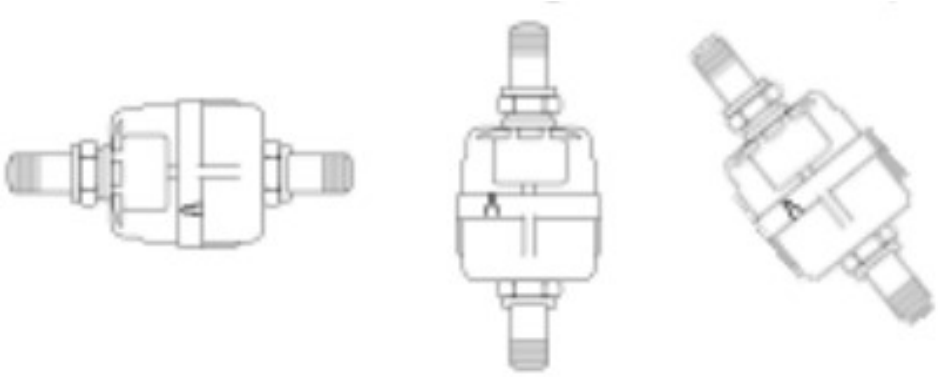


❖ Working principle

- The working principle is based on calibrated chamber of known capacity and a rotary piston activated by the energy of the flow that passing through. The piston rotates while the chamber fills up and empties with a constant volume of water. By counting these cycles, the register indicates the total volume that has been registered.

❖ Installation

- The diameter of the water meter should be selected according to the volume of water passing through the pipeline. The pipeline should be properly cleaned to avoid blockage before installing the water meter. The meter can be installed in any position, but the flow direction must follow the marking as stated on the body.



- The meter can only be used for cold water and not for hot water, or any other corrosive chemicals.
  The valves must be installed in the front and the back of the water meter.
  The water meter should not be installed submerge under the water.

Water Meter Parts



Water Meter Parts (Optional)



Water Meter Register



Irrigation Water Meter Mechanism



Horizontal Woltman Water Meter Mechanism



Water Meter Mechanism