

VOLUMETRIC ROTARY PISTON COLD WATER METER MODEL: LXH-15B;



Application

 Measuring the volume of cold potable water passing through the pipeline.

Working Conditions

♦ Water temperature: ≤ 40 °C.

♦ Water pressure: ≤1.6MPa.

Construction

◆ The meter mainly consists of a lower body, a measuring unit, a transmission assembly, a register, a upper body, a retaining ring and others. The retaining ring secures the internal parts.

Working Principle

- The working principle is based on a calibrated chamber of known capacity and a rotaty 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 register.

Indication

Cubic meter(m³) and U.S.gallon(USG) for selecting.

Features

- Ensures high sensitivity and accurate registration throughout a wide flow range.
- Magnetic drive, lower transmission resistance.
- Corrosion resistant body.
- Liquid-sealed register.
- Easy reading and long term clear reading.
- Low starting flow rate.
- Internal non-return valve.
- ♦ Internal strainer.
- Can be equipped with reed switch option.

Compliance with Standard

 Technical data conforms to class C of the ISO 4064 standards.

Attachment

With every water meter, there will be two couplings, two nuts, two coupling gaskets and two meter spud thread protectors.

Note: To protect the meter spud threads, store the meter with thread protectors in place.

Tel: +86-775-7838101Fax: +86-775-7838121 Postal code: 537300 Web: http://www.watermeter.hk Email: info2@watermeter.hk

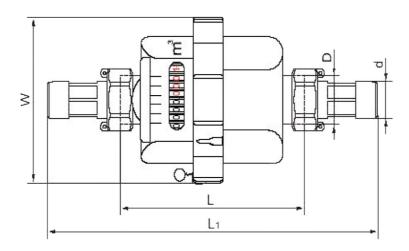


Dimensions and Weights

Nominal diameter		DN	15
Body thread		D	G3/4B
Connector thread	- 2	d	R1/2
Body length	mm	L	115
Overall length	mm	L ₁	209
Width	mm	W	91
Weight without connectors	Kg		0.76
Weight with connectors	Kg		1.06

 $lack "L_1"$ is the total length when coupling gaskets without compression.

Dimension Picture



Main Technical Data

Nominal diameter		DN	15
Maximum flow rate	m³/h	Qmax	3.0
Nominal flow rate	m³/h	Qn	1.5
Transition flow rate	l/h	Qt	22.5
Minimum flow rate	l/h	Qmin	15
Maximum reading	m ³		9999
Minimum reading	m ³		

◆ Maximum Permissible Error:

In the lower zone from Qmin inclusive up to but excluding Qt is $\pm 5\%$

In the upper zone from Qt inclusive up to and including Qmax is $\pm 2\%$.

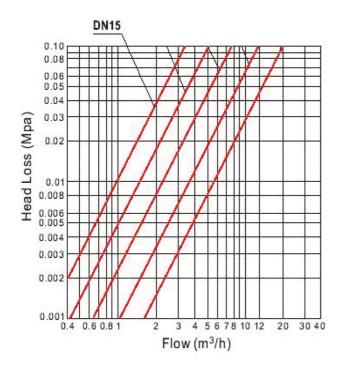
Address: No.8 Chenghu road Pingnan Guangxi China.

Tel: +86-775-7838101Fax: +86-775-7838121 Postal code: 537300

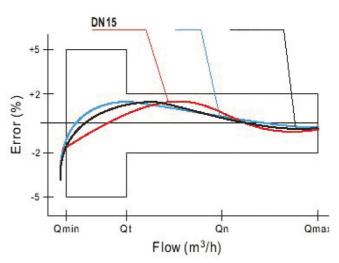
Web: http://www.watermeter.hk Email: info2@watermeter.hk



Head Loss Curve

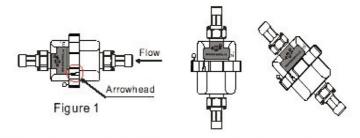


Accuracy Curve



Installation

The meter can be installed in any position:



- ◆ The meter must be installed with the direction of the flow as indicated by the arrow cast in the meter body (see figure 1).
- ◆ In order to keep the water meter in good working, the pipeline should be clear up before install the meter.
- The valves must be installed in the front and the back of the water meter.
- Attention should be paid that the cold water meter must not be used for hot water.

+86-775-7838101Fax: Tel: +86-775-7838121 Postal code: 537300

Web: http://www.watermeter.hk Email: info2@watermeter.hk



With Reed Switch Option



Features

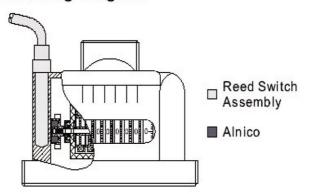
- ◆ The special version LXH-15B~40B Water Meter is equipped with a reed switch assembly which can be connected to remote reading systems without breaking the meter seal.
- ◆ The reed switch pulser sends out electric signals
- The reed switch pulser sends out electric signals per a preset water quantity requiring power from an external source.
- The special meter has all advantages of the common LXH-15B~40B water meter.
- Dimensions and technical data are the same as the common LXH-15B~40B water meter.

Working Conditions

◆ Water temperature: ≤ 40 °C.◆ Water pressure: ≤1.6MPa.

 Attention should be paid that the special meter can't be immersed into water.

Working Diagram

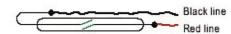


Reed Switch Assembly

- The reed switch pulser consists of a plastic housing with a reed switch to read the total consumption of water.
- Pulser wiring: cable.
 - 1.5 meter long, 3.5mm diameter.
 - 2 Red-black: pulse team.
- Reed switch: single.
- ◆ Electric data:

Vmax: 24AV/DC, Imax: 0.01A.

Drawing:



Data Output Options

◆ The special meter comes in one model variation, which indicate pulse rates.

Reed switch pluse	pulse	
DN	1 Liter	
15	\$	

Tel: +86-775-7838101Fax: +86-775-7838121 Postal code: 537300 Web: http://www.watermeter.hk Email: info2@watermeter.hk





No.	Name	QTY	Material	
1	Coupling nut	2	2CuZn40Pb2	
2	Coupling	2	2CuZn40Pb2	
3	Joint washer	1	Rubber	
4	Seal lead	1	T3 , Pb	
5		1	15, 10	
6	Outer brass ring	1	HPb59-1	
7	Lower cover	1	HPb59-1	
8	O-ring	1	Rubber	
9	Non return valve	1	Subassembly	
10	Measure box	1	Subassembly	
11	Moveable clamp	1	POM	
12	Spring	1	1Cr18Ni9	
13	Clamp	1	POM	
14	Decelerate device	1	Subassembly	
15	register	1	Subassembly	
16	roter	1	Subassembly	
17	Top cover	1	HPb59-1	
18	Lid	1	ABS	
19	Joint washer	1	Rubber	
20	Pulse wire	1		
21	pin	2		
10F	Seal plate	1	Seal plate	
10E	Piston	1	Piston	
10D	Flashboard	1	POM	
10C	Bush	1	Bush	
10B	Measure box	1	Subassembly	
10A	Strainer	1	ABS	