

# A<sup>®</sup> 埃美柯 M AMICO

Ingenuity And Eternal  
Smart Manufacturing



**BG FILMACO VENTURE  
CORPORATION**

**"BUILDERS GROUP"**

WATER METER SERIES

## **ROTARY VANE WHEEL DRY-DIAL WATER METER**

MEASURING THE VOLUME OF POTABLE WATER PASSING THROUGH THE PIPELINE



### **FEATURE:**

- ❖ Magnet drive, magnet-proof and resistance exterior magnet interference.
- ❖ Keep the reading easy and clear in a long-term service.
- ❖ The cover can be turned discretional.
- ❖ Selected high quality materials for steady & reliable characteristic and good looking
- ❖ Brass or stainless steel body, hot water meter, magnet-proof device and remote reading transmission system for option

**NOTE: technical data conform to ISO4064**

### **MAXIMUM PERMISSIBLE ERROR:**

- ❖ In the lower zone from Q1 inclusive up to but excluding Q2 is  $\pm 5\%$ .
- ❖ In the upper zone from Q2 inclusive up to and including Q4 is  $\pm 2\%$ .

### **WORKING CONDITION:**

- Water temperature:  $0^{\circ}\text{C} \leq t \leq 30^{\circ}\text{C}$  (for cold water meter)  
 $0^{\circ}\text{C} < t \leq 90^{\circ}\text{C}$  (for hot water meter)
- Water pressure:  $\leq 1\text{MPa}$

**MAIN TECHNICAL DATA:**

SIZE mm	Q3/Q1	Q4 MAX FLOW	Q3 NOMINAL FLOW	Q2 TRANSITIONAL FLOW	Q1 MIN FLOW	MIN READING	MAX READING
		m <sup>3</sup> /h				m <sup>3</sup>	
15	50	3.1	2.5	0.080	0.050	0.0001	99999
	80			0.050	0.031		
20	50	5.0	4.0	0.128	0.08		
	80			0.080	0.050		
25	50	7.9	6.3	0.200	0.126	0.0001	99999
	80			0.128	0.080		
32	50	12.5	10.0	0.320	0.200		
	80			0.200	0.125		
40	50	20.0	16.0	0.512	0.320	0.0001	99999
	80			0.320	0.200		
50	50	31.3	25.0	3.15	0.500		
	80			2.00	0.313		

**DIMENSION AND WEIGHT:**

TYPE	SIZE	LENGTH	WIDTH	HEIGHT	CONNECTING THREAD	WEIGHT
	mm					Kg
LXSG-15A	15	165	94/103	111	G <sup>3</sup> /4B	1.6
LXSG-20A	20	195	94/103	111	G1B	1.8
LXSG-25A	25	225	118	122	G <sup>1</sup> B/4B	2.2
LXSG-32A	32	230	118	122	G <sup>1</sup> B/2B	2.8
LXSG-40A	40	245	122	149	G2B	4.8
LXSG-50A	50	280	125	184	G2 <sup>1</sup> /2B	8.2
	50	300	165	172	GB4216.4-84 D=φ165 D=φ125	11

**ROTARY VANE POINTER WATER METER**

MEASURING THE VOLUME OF POTABLE WATER PASSING THROUGH THE PIPELINE



**FEATURE:**

- ❖ Installed in vertical pipeline which is suitable for household as branch meter and easy for installation.
- ❖ Selected high quality materials for steady & reliable characteristic and good looking.
- ❖ Pointer or numeric register, dry dial or liquid, iron or brass body, cold or hot water meter for option.

**NOTE: technical data conform to ISO4064**

**MAXIMUM PERMISSIBLE ERROR:**

- ❖ In the lower zone from Q1 inclusive up to but excluding Q2 is  $\pm 5\%$ .
- ❖ In the upper zone from Q2 inclusive up to and including Q4 is  $\pm 2\%$ .

**WORKING CONDITION:**

- Water temperature:  $0^{\circ}\text{C} \leq t \leq 30^{\circ}\text{C}$  (for cold water meter)  
 $0^{\circ}\text{C} < t \leq 90^{\circ}\text{C}$  (for hot water meter)
- Water pressure:  $\leq 1\text{MPa}$

**MAIN TECHNICAL DATA:**

SIZE mm	Q3/Q1	Q4 MAX FLOW	Q3 NOMINAL FLOW	Q2 TRANSITIONAL FLOW	Q1 MIN FLOW	MIN READING	MAX READING
		m <sup>3</sup> /h				m <sup>3</sup>	
15	80	3.1	2.5	0.050	0.031	0.0001	99999
	160			0.025	0.016		
20	80	5.0	4.0	0.080	0.050	0.0001	99999
	160			0.040	0.025		
25	80	7.9	6.3	0.126	0.079	0.0001	99999
	160			0.063	0.039		

**DIMENSION AND WEIGHT:**

TYPE	SIZE	LENGTH	WIDTH	HEIGHT	H1 HEIGHT	CONNECTING THREAD	WEIGHT Kg
	mm						
LXSL-15C LXSL-15E LXSLY-15E LXSLG-15A	15	135	94/103	120	150	G <sup>3</sup> B 4	1.6
LXSLG-15B			90	125			1.55
LXSL-20C LXSL-20E LXSLY-20E LXSLG-20A	20	135	94/103	120	150	G 1 B	1.9
LXSLG-20B			90	125			1.85
LXSL-25C LXSL-25E LXSLY-25E LXSLG-25A	20	135	104	132	108	G1 ¼ B	2.7
LXSLG-25B			90	137			2.65



## **WOLTMAN DETACHABLE WATER METER**

MEASURING THE VOLUME OF POTABLE WATER PASSING THROUGH THE PIPELINE



### **FEATURE:**

- ❖ Vacuum sealed register ensures a clear presentation in a long-term service.
- ❖ Selected high quality materials for steady & reliable characteristic.
- ❖ Without removing the meter from the pipeline for maintenance and replacement.

**NOTE: technical data conform to ISO4064**

### **MAXIMUM PERMISSIBLE ERROR:**

- ❖ In the lower zone from Q1 inclusive up to but excluding Q2 is  $\pm 5\%$ .
- ❖ In the upper zone from Q2 inclusive up to and including Q4 is  $\pm 2\%$ .

### **WORKING CONDITION:**

- Water temperature:  $0^{\circ}\text{C} \leq t \leq 30^{\circ}\text{C}$  (for cold water meter)  
 $0^{\circ}\text{C} < t \leq 90^{\circ}\text{C}$  (for hot water meter)
- Water pressure:  $\leq 1\text{MPa}$

**MAIN TECHNICAL DATA:**

TYPE	SIZE mm	CLASS	Q4 MAX FLOW	Q3 NOMINAL FLOW	Q2 TRANSITIONAL FLOW	Q1 MIN FLOW	MIN READING	MAX READING
			m <sup>3</sup> /h				m <sup>3</sup>	
LXLG/R-50E	50	20	50	40	8	2	0.01	999999.99
		50			5	0.8		
LXLG/R-65E	65	20	50	40	8	2		
		50			5	0.8		
LXLG/R-80E	80	20	79	63	12.6	3.2		
		50			7.9	1.3		
LXLG/R-100E	100	20	125	100	20	5		
		50			12.6	2		
LXLG/R-125E	125	20	125	100	20	5		
		50			12.6	2		
LXLG/R-150E	150	20	313	250	50	12.5	0.1	9999999.9
		50			31.5	5		
LXLG/R-200E	200	20	500	400	80	20		
		50			31.5	5		
LXLG-250E	250	20	787	630	126	50	1	99999999
		50			79	20		
LXLG-300E	300	20	1250	1000	200	50		
		50			126	20		

**DIMENSION AND WEIGHT:**

TYPE	SIZE	LENGTH	HEIGHT		CONNECTING THREAD			WEIGHT
			H	G	OUTER DIA	BOLT CIRCLE DIA	CONNECTING BOLT (PCS)	Kg
	mm							
LXLG-50E	50	200	210	281	165	125	4xM16	12
LXLG-65E	65		218	291	185	145		12.3
LXLG-80E	80	225	230	301	200	160	8xM16	14
LXLG-100E	100	250	240	220	220	180	8xM20	16.5
LXLG-125E	150	300	312	383	285	240		28
LXLG-200E	200	350	349	335	335	295	12xM20	38
LXLG-250E	250	450	493	730	395	350		94
LXLG-300E	300	500	515	730	445	400		114

## **ROTARY VANE WHEEL PLASTIC BODY WATER METER**

MEASURING THE VOLUME OF POTABLE WATER PASSING THROUGH THE PIPELINE



### **FEATURE:**

- ❖ The body of water meter made of high-strength engineering plastic injection, never causing secondary pollution to water quality, and never containing any heavy metals, which is safety and health.
- ❖ The materials can be recycled, never causing any pollution to environment, is of environment protection and high quality products.
- ❖ With strong anti-corrosion, high-strength, stable performance and long service life.
- ❖ We have wet type, liquid seal type, and **dry-type** on water meter to choose.

### **MAXIMUM PERMISSIBLE ERROR:**

- ❖ In the lower zone from Q1 inclusive up to but excluding Q2 is  $\pm 5\%$ .
- ❖ In the upper zone from Q2 inclusive up to and including Q4 is  $\pm 2\%$ .

### **WORKING CONDITION:**

- Water temperature:  $0^{\circ}\text{C} \leq t \leq 30^{\circ}\text{C}$
- Water pressure:  $\leq 1\text{MPa}$



**MAIN TECHNICAL DATA:**

SIZE mm	Q3/Q1	Q4 MAX FLOW	Q3 NOMINAL FLOW	Q2 TRANSITIONAL FLOW	Q1 MIN FLOW	MIN READING	MAX READING
		<i>m<sup>3</sup>/h</i>					
15	80	3.1	2.5	0.050	0.031	0.0001	99999
	100			0.040	0.025		
20	80	5.0	4.0	0.050	0.050		
	100			0.040	0.040		

**DIMENSION AND WEIGHT:**

TYPE	SIZE	LENGTH	WIDTH	HEIGHT	D CONNECTING THREAD	WEIGHT
	<i>mm</i>					<i>Kg</i>
LXS-15S LXSG-15S LXSY-15S	15	165	94/103	111	G¾B	1.0
LXS-20S LXSG-20S LXSGY-20S	20	195	94/103	111	G1B	1.2

# ROTARY VANE WHEEL DRY-DIAL SINGLE-JET WATER METER

MEASURING THE VOLUME OF POTABLE WATER PASSING THROUGH THE PIPELINE



## FEATURE:

- ❖ Vacuum sealed register ensures the dial kept from fog and keeps reading clear in a long-term service.
- ❖ The counter can be turned discretionally and easy for copy the reading.
- ❖ Wide measuring range and small start-up flow rate.
- ❖ Selected high quality materials for steady & reliable characteristic and good looking.
- ❖ Small in size and light in weight.
- ❖ Brass or stainless steel body, hot water meter, magnetic-proof device and remote reading transmission system for option.

**NOTE: technical data conform to ISO4064**

## MAXIMUM PERMISSIBLE ERROR:

- ❖ In the lower zone from Q1 inclusive up to but excluding Q2 is  $\pm 5\%$ .
- ❖ In the upper zone from Q2 inclusive up to and including Q4 is  $\pm 2\%$ .

## WORKING CONDITION:

- Water temperature:  $0^{\circ}\text{C} \leq t \leq 30^{\circ}\text{C}$
- Water pressure:  $\leq 1\text{MPa}$

# AMICO WATER METER

## MAIN TECHNICAL DATA:

SIZE mm	Q3/Q1	Q4 MAX FLOW	Q3 NOMINAL FLOW	Q2 TRANSITIONAL FLOW	Q1 MIN FLOW	MIN READING	MAX READING
		m <sup>3</sup> /h					
13	50	3.1	2.5	0.080	0.050	0.0001	99999
	80			0.050	0.031		
20	50	5.0	4.0	0.128	0.079		
	80			0.080	0.050		
25	50	7.9	6.3	0.202	0.126		
	80			0.126	0.079		

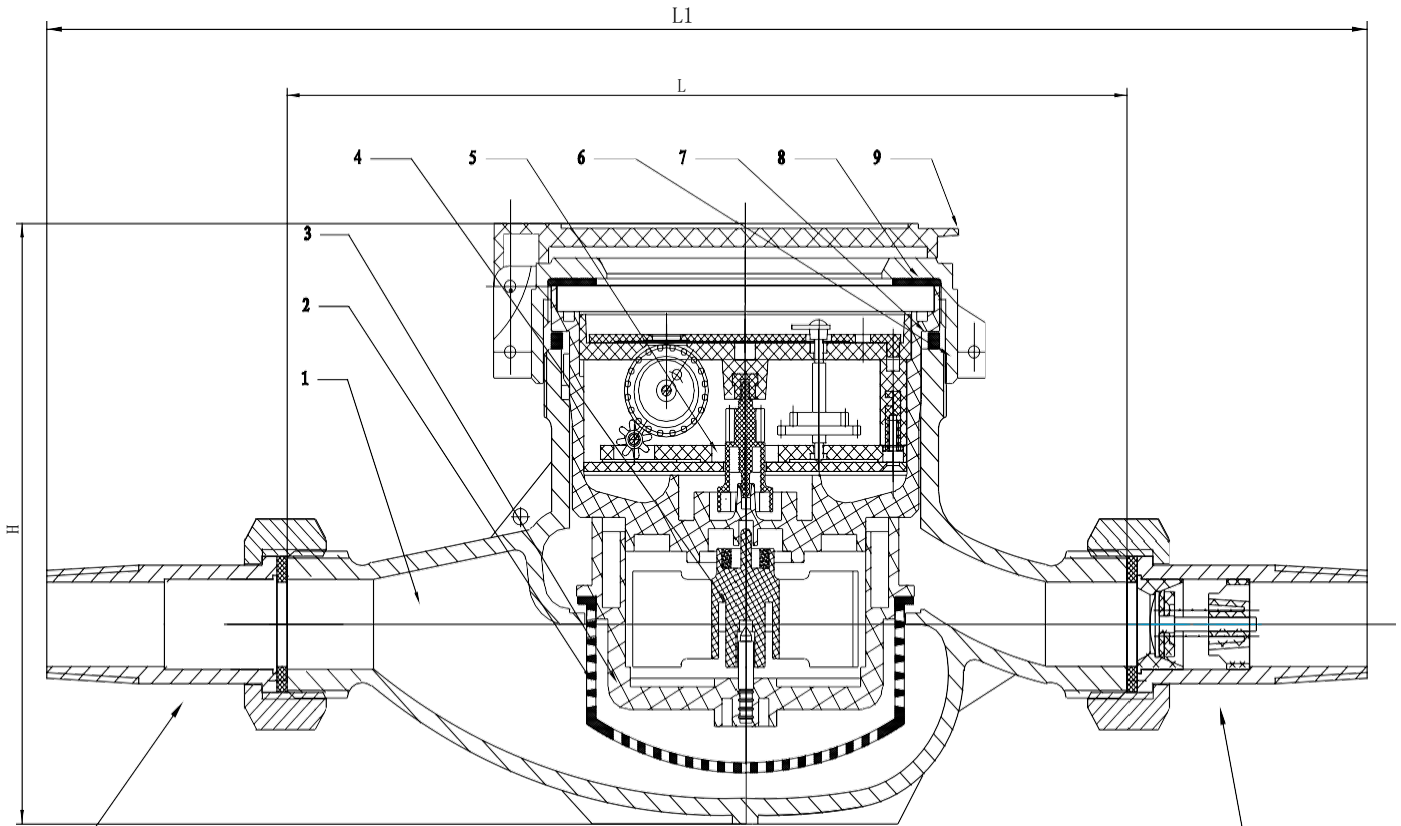
## DIMENSION AND WEIGHT:

TYPE	SIZE	LENGTH	WIDTH	HEIGHT	D CONNECTING THREAD	WEIGHT
	mm					Kg
LXSC-13D	13	110	73	83	G¾B	0.7
LXSC-13D <sub>2</sub>	13	110	73	88	G¾B	0.76
LXSC-20D	20	130	73	83	G1B	0.8
LXSC-20D <sub>2</sub>	20	130	73	88	G1B	0.9
LXSC-25D <sub>2</sub>	25	160	73	92	G1¼B	1.47

## Water meter with check valve information

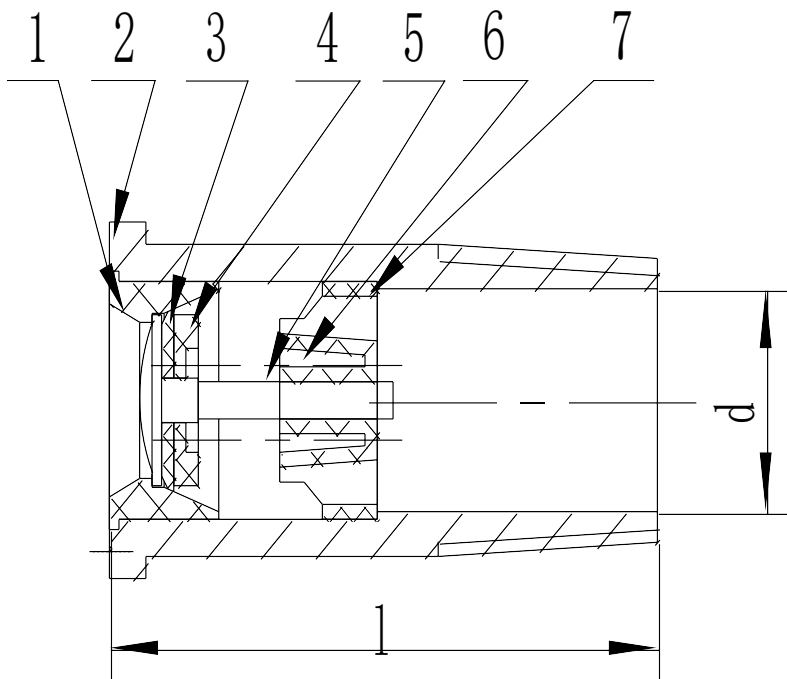
Size(mm)	15mm	20mm	Note
Total length	L=165 L1=258 H=103	L=195 L1=299 H=106	Drawing 1
<a href="#">working principle</a>	<p>When the water in the normal flow, the force in the top of the valve stem round surface, moves the valve stem, valve plates, sealing piece moves to the right place, the spring is compressed, water flowed from valve core seam, when the water power became small, automatic spring under the effect of its elastic rebound; When water flow backward, the force on the top of the stem under the plane, moves the valve stem, valve plate and seal plate to left place, the water flow to the middle of check valve, which blocked by seal plate, cannot return water.</p> <p style="text-align: center;">L=45 d=15</p>	<p style="text-align: center;">L=50 d=21</p>	<p>Drawing 2</p> <p>Drawing 3</p>
Why located at the out flow.	<p>Check valve is installed in the outlet, the water reverse flow in water meter will be blocked at the outlet, which do not through the water meter (that is, will not affect the normal measuring) to prevent reverse flow back flow meter</p>		

# AMICO WATER METER



未放止回阀的接管安装在水表进水端

已放止回阀的接管安装在水表出水端



## Water flow

1. Water meter body
2. Strainer
3. Vane wheel
4. Vane component
5. Indicating mechanism
6. Brass cover
7. Rubber gasket
8. Plastic gasket
10. Water meter cover

**Water flow**

1. Valve body 2. Connection pipe 3. Seal plate 4. Plat valve 5. Stream valve 6. Spring 7. Core valve

When the water in the normal flow, the force in the top of the valve stem round surface, moves the valve stem, valve plates, sealing piece moves to the right place, the spring is compressed, water flowed from valve core seam, when the water power became small, automatic spring under the effect of its elastic rebound; When water flow backward, the force on the top of the stem under the plane, moves the valve stem, valve plate and seal plate to left place, the water flow to the middle of check valve, which blocked by seal plate, cannot return water.

