

COMBINATION WATER METER

MODEL: LXF-50-150

This type of water meter can be used for a remote reading transmission system as equipped with a built-in sensor.



APPLICATION

- ◆ For measurement of high flows of cold potable water passing through the pipeline.

FEATURES

- ◆ Wide measuring range: From Q_{min} of the small caliber water meter to Q_{max} of the large caliber water meter
- ◆ As a dry meter, deposits in the register are avoided. This ensures a clear reading in long term service.
- ◆ The main register may rotate more than 360 degrees for easily reading in any position.
- ◆ Low head loss.
- ◆ Lower starting flow.
- ◆ Novel structure, simple maintenance.
- ◆ Can be equipped with reed switch option.

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◆ Particularly suited in commercial, institutional places of assembly and facilities with fluctuating usage and flow rates.

WORKING PRINCIPLE

◆ A changeover spring valve diverts flow to the appropriate meter, opening or closing according to pressure variations by changes in flow rate.

◆ At low flow rate, the changeover valve closes and only the small meter in operation 2 water flows through the bypass meter, and the usage is recorded on its register.

◆ When the flow rate increases, pressure is exerted on the large meter, until the flow rate reaches approximately one half the capacity of the bypass meter.

At this point, the drop in pressure causes the valve to open 1, and water flows through both the main meter and bypass meter, and the overall consumption is read by combining the main and bypass registers.

◆ When flow is decreasing, the process is reversed. The valve is closed and water flows through the small meter.

CONSTRUCTION

◆ The meter model LXF-50-200 combines a large caliber water meter (model LXLC-B) on the main line, a small water meter (model LXSG) on the bypass line, and a flow changeover valve.

Annotation: LXLC-B

removable element woltman water meter.

LXSG multi-jet dry type vane wheel water meter

or(LXSY) multi-jet liquid type vane wheel water meter.

WORKING CONDITION

◆ Water temperature: $\leq 50^{\circ}\text{C}$

◆ Water pressure: $\leq 1.6\text{Mpa}$

MAXIMUM PERMISSIBLE ERROR

◆ In the lower zone from Q_{\min} inclusive up to but excluding Q_t is $\pm 5\%$

In the upper zone from Q_t inclusive up to and including Q_s is $\pm 2\%$

INDICATION

◆ Cubic meter(m^3)

INSTALLATION

◆ The meter must be installed with the direction of the flow as indicated by the arrow cast in the meter body.

◆ A horizontal position with the register face upwards is recommended.

◆ The meter must have 10 diameters straight pipe ahead of the meter and 5 diameters straight pipe after to insure proper flow through the meter.

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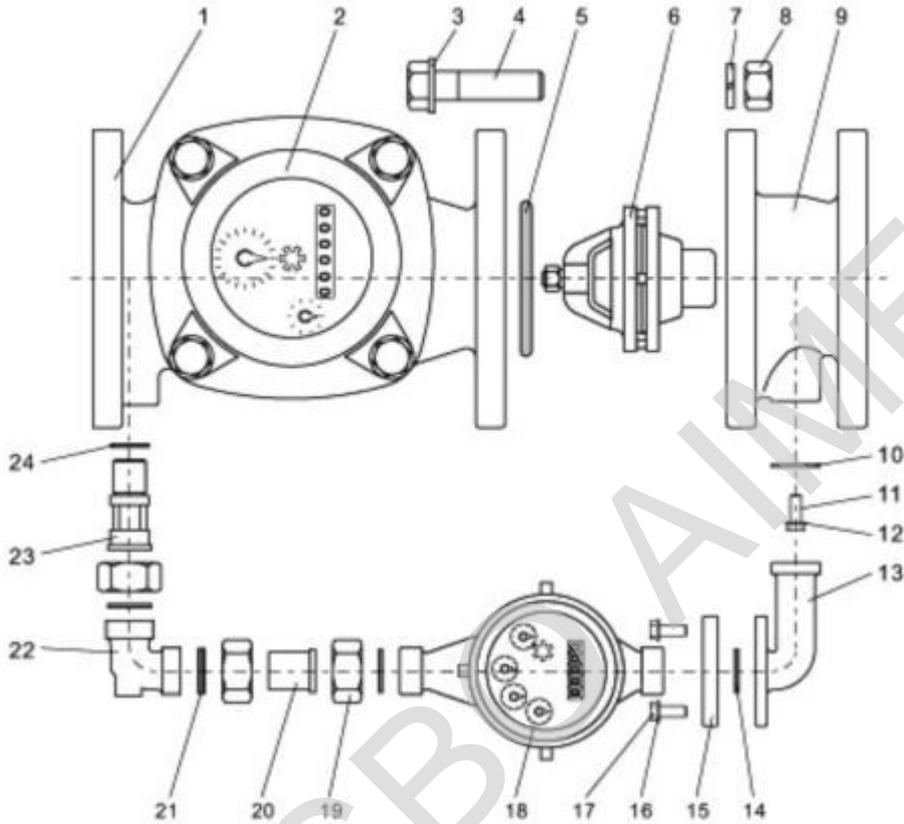
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◆The valves must be installed in the front and the back of the water meter.

ATTACHMENT

◆With every water meter, there will be two flange gaskets.



No.	Name	Qty	No.	Name	Qty	No.	Name	Qty
1	Body(mainwatermeter)	1	9	Adapting flange	1	17	Bolt	2
2	LXLC-B except for the body	1	10	Coupling gasket 2	1	18	Bypass meter (LXSG)	1
3	Flat washer	8	11	Bolt	2	19	Nut	3
4	Bolt	8	12	Flat washer	2	20	Coupling 2	1
5	Flange o-ring	1	13	Street elbow 2	1	21	Coupling o-ring	1
6	Changeover valve	1	14	Coupling gasket	3	22	Street elbow 1 with non-return valve	1
7	Spring washer	8	15	Connecting plate	1	23	Coupling 1	1
8	Nut	8	16	Spring washer	2	24	Coupling gasket 1	1

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MAIN TECHNICAL DATA

Type	Size(mm)	q _s	q _p	q _t	q _{min}	Min.	Max.
		Max Flow	Nominal Flow	Transitional Flow	Min. Flow	Reading	Reading
		m ³ /h				m ³	
LXF-50	50mmx15mm	30	15	0.12	0.03	0.0001	999999+99999
LXF-80	80mmx20mm	80	40	0.20	0.05	0.0001	999999+99999
LXF-100	100mmx20mm	120	60	0.20	0.05	0.0001	999999+99999
LXF-150	150mmx40mm	300	150	0.80	0.20	0.001	999999+99999

DIMENSIONS AND WEIGHTS

Type	Size DN	Length	Width	Height	Height	Connecting flange			Weight kg
		L	W	H	G	D	D1	Connecting Bolt	
		mm				Outer dia.	Bolt circle dia.	nxM	
LXF-50	50mmx15mm	300	165	213	165	125	4xM16	14.8	
LXF-80	80mmx20mm	370	310	279	200	160	8XM16	27.5	
LXF-100	100mmx20mm	370	330	289	220	180	8XM16	33	
LXF-150	150mmx40mm	500	445	319	285	240	8XM20	64	
LXF-200	200mmx50mm	560	525	375	340	295	8XM20	114.5	

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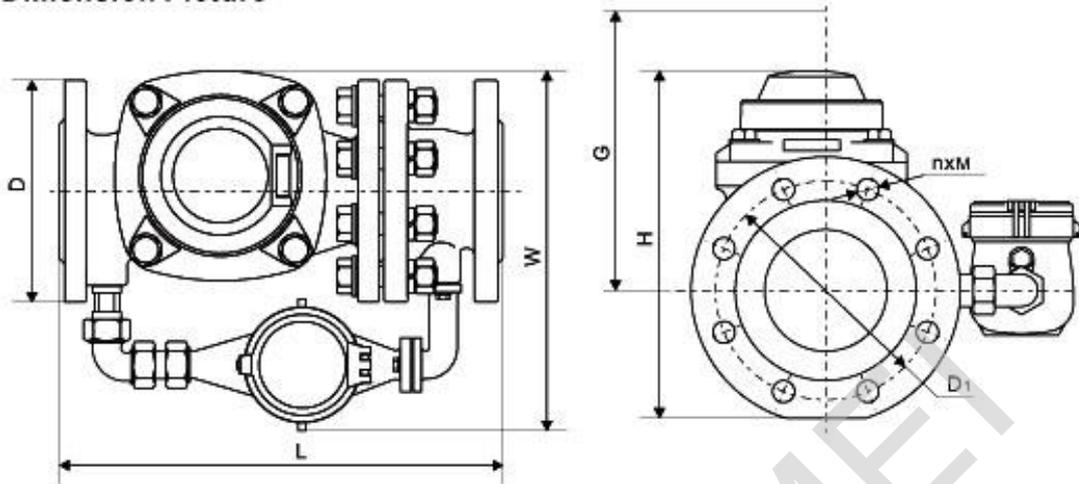
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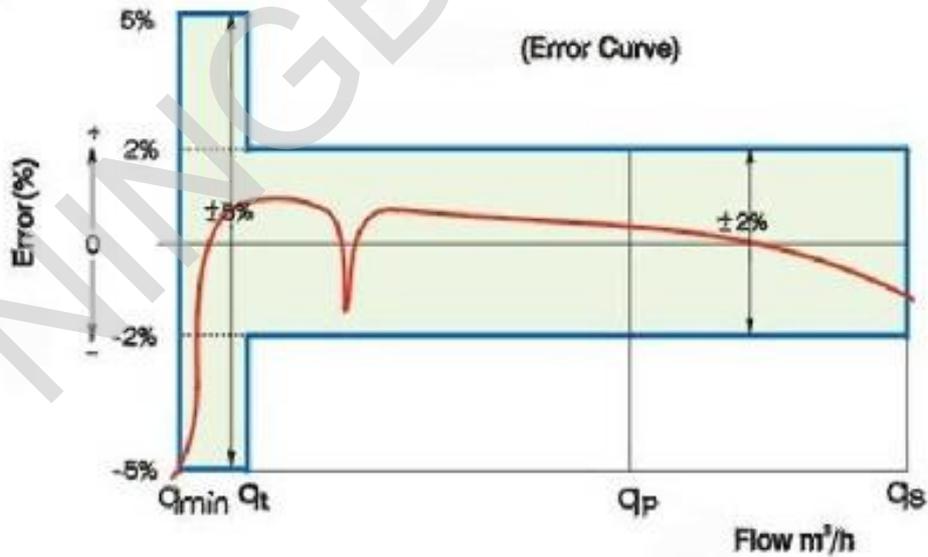
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Dimension Picture



◆ The height "G" is necessary for removing the measuring unit.

ACCURACY CURVE



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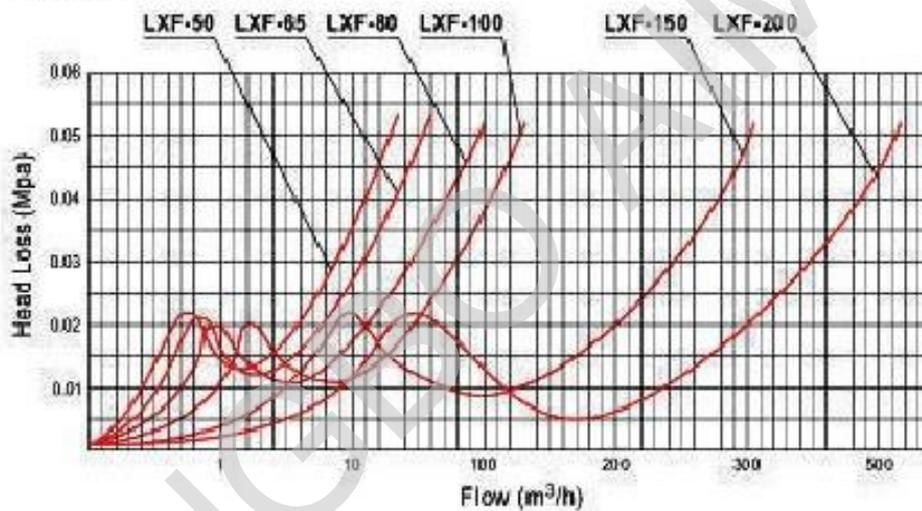
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Type	Incr easing open flow rate(m ³ /h)	Decr easing Close flow rate(m ³ /h)
LXF-50	1.4	0.7
LXF-80	1.8	0.8
LXF-100	1.8	1.2
LXF-150	4.5	2.5

PRESSURE LOSS CURVE

Head Loss Curve



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