

Vertical Propeller Water Meter

USER MANUAL



☆ **Overview of the principle of vertical propeller water meter:**

Under measurement conditions, continuously measure, memorize and display the total amount of directly drinkable cold (hot) water flowing through the closed full pipe.

☆ **Principle and performance characteristics of vertical spiral wing water meter:**

1. Excellent performance at small flow rates: The vertical propeller impeller is placed vertically and supported by stainless steel balls, thereby minimizing frictional resistance.
2. Strong anti-fouling performance: built-in stainless steel water filter, saving the cost and trouble of installing a separate filter. Online detachable structural design minimizes water meter maintenance workload. The water meter can work normally under harsh water conditions. If necessary, the complete set of movements can be pulled out at the installation site to quickly clean up debris.
3. Made of high-quality materials, the performance is stable and reliable, and the pressure loss is small. long lasting.
4. The counter is vacuum sealed to prevent cold atomization and maintain clear readings for a long time.

The main parameters:

Temperature grade: T30

Pressure level: Map10

Pressure loss level: $\Delta P63$

Upstream flow field sensitivity level: U5

Downstream flow field sensitivity level: D0

☆ **Vertical propeller water meter flow parameters:**

Model	Caliber	Range ratio R		Overload flow Q4	Common flow Q3	demarcation flow Q2	Min flo w Q1	min reading	max reading
	mm	Q3/ Q1	Q2/ Q1	m ³ /h				m ³	
WS-50E LXLG-50E	50	100	2.5	31.25	25	0.625	0.25	0.0005	999999
		200	6.3			0.7875	0.125		
WS-80E LXLG-80E	80	100	2.5	80	63	1.575	0.63		
		200	6.3			2	0.315		
WS-100E LXLG-100E	100	100	2.5	125	100	2.5	1		
		200	6.3			3.15	0.5		
WS-150E LXLG-150E	150	100	2.5	312	250	6.25	2.5	0.005	999999
		200	6.3			7.875	1.25		
WS-200E LXLG-200E	200	100	2.5	500	400	10	4		
		200	6.3			12.6	2		

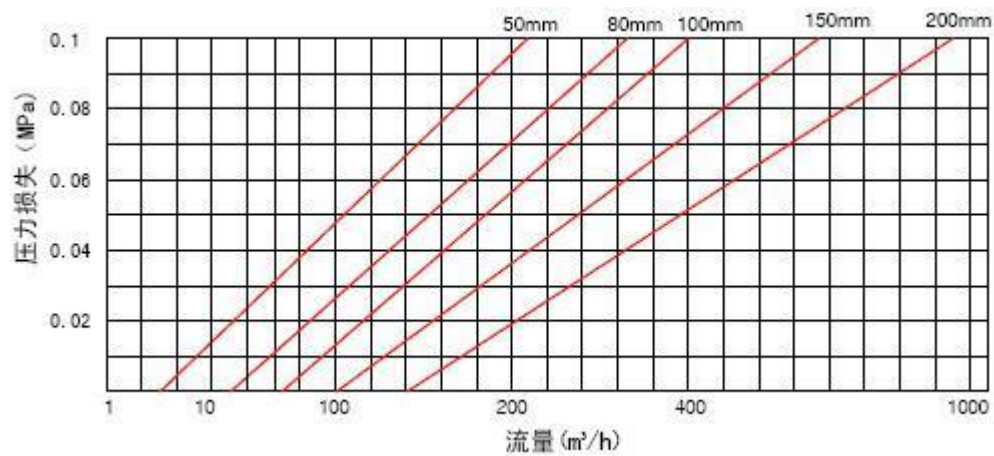
☆Maximum allowable error of vertical propeller water meter:

The maximum allowable error in the low area ($Q_1 \leq Q < Q_2$) is $\pm 5\%$

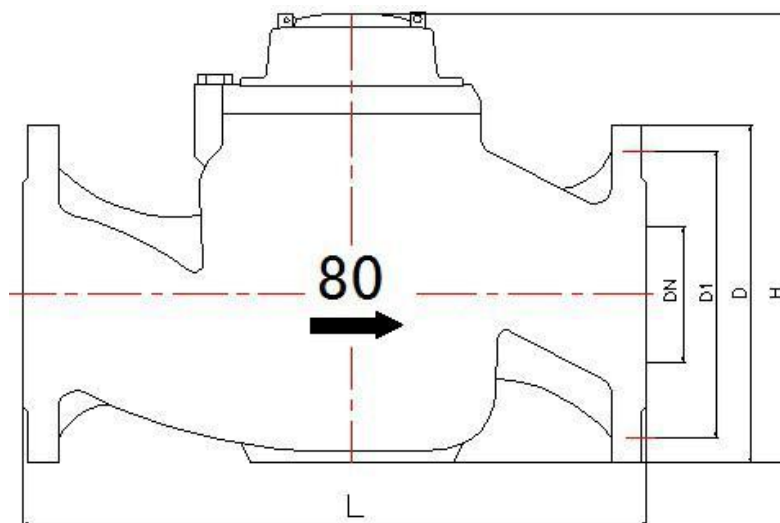
When the water temperature in the high zone is $\leq 30^\circ\text{C}$ ($Q_2 \leq Q \leq Q_4$), the maximum allowable error is $\pm 2\%$

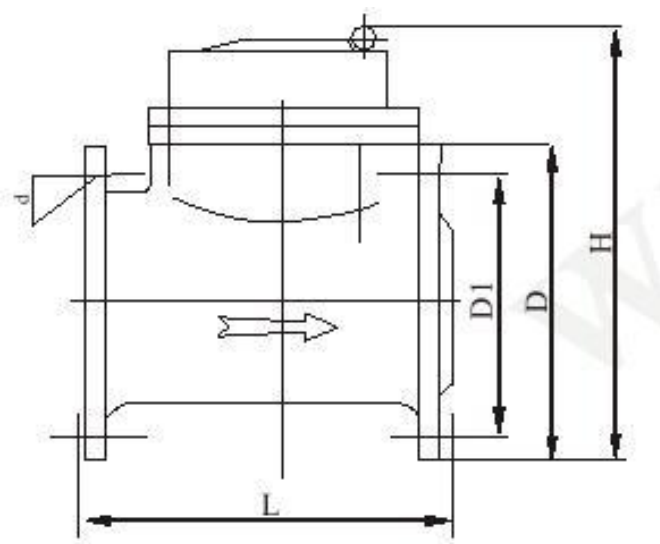
When the water temperature is $> 30^\circ\text{C}$, the maximum allowable error in the high zone ($Q_2 \leq Q \leq Q_4$) is $\pm 3\%$

☆Vertical propeller water meter pressure loss curve:



☆Installation dimensions:





Vertical wing detachable water meter:

Caliber mm	L mm	H mm	Flanges			
			D	D1	diameter of bolt hole	Weight kg
50	280	220	165	125	φ 18	15
80	370	285	200	160	φ 18	27
100	370	300	220	180	φ 18	29
150	500	480	285	240	φ 22	80