

Woltman water meter

Woltman Helix water meter can be divided into horizontal Helix Woltman water meter (WPH) and vertical Helix Woltman water meter (WS) according to different of water meter internal structure, but the water meters are installed horizontally, The advantage of vertical Woltman water meter (WS) is a wider flow range (R80/R160/R200) . The installation does not need the strict requirements of straight pipe section and external filter.

Model: LXLC-40-900

Use: horizontal woltman water meter is used to measure the total flow of large flow pipeline. It is especially suitable for water supply main pipeline and mining water demand of large plants. The main features are large circulation capacity, small volume, compact structure, easy to use and maintenance.



Applicable conditions :

Size: DN40~DN600

Material: Cast iron shell

Cold water: 0.1 ~ 30 °C

Hot water: 0.1 ~ 90 °C

Working pressure: 1.0MPa

Installation method :

1. Horizontal installation.
2. Additional water filter is required.
3. The water inlet / outlet of the water meter needs straight pipe section U10 / D5.

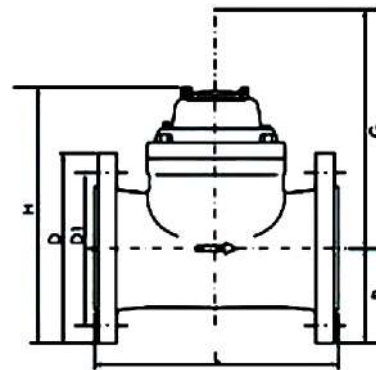


Characteristics :

1. Dry magnetic transmission structure ensures that the counter is clean and clear.
2. Large flow capacity, small pressure loss and stable performance curve.
3. The measuring movement is replaceable and easy to disassemble.
4. Stainless steel fasteners and epoxy resin powder are sprayed inside and outside the shell to maximize rust prevention and prolong the service life of the product.
5. The measuring mechanism has good universality, magnetic connection, small transmission resistance, sensitive and reliable operation.
6. The counter is vacuum sealed, anti condensation and atomization, and can keep the reading clear and accurate all year round.

Technical parameter :

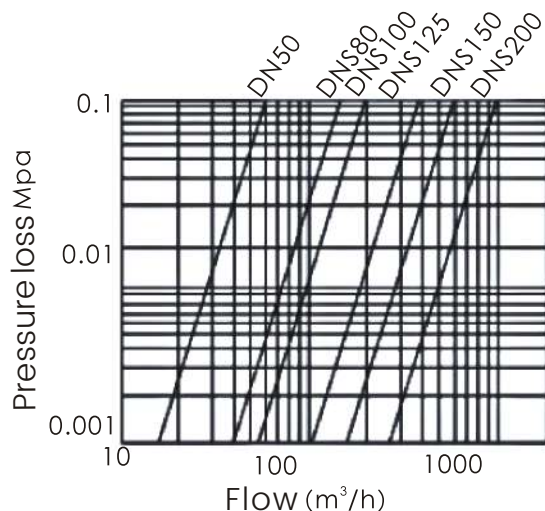
| DN (mm) | Flow range | Maximum flow Q4 | Common flow Q3 | Boundary flow Q2 | Minimum flow Q1 | Minimum reading | Maximum reading |
|------------|------------|-----------------------|----------------------|------------------------|-----------------------|--------------------|--------------------|
| | Q3/Q1 | m ³ /h | | | m ³ | | |
| 40 | 80 | 50 | 40 | 0.8 | 0.5 | 0.001 | 999,999 |
| 50 | 80 | 50 | 40 | 0.8 | 0.5 | 0.001 | 999,999 |
| 65 | 80 | 78.75 | 63 | 1.4 | 0.79 | 0.001 | 999,999 |
| 80 | 80 | 125 | 100 | 2.0 | 1.25 | 0.001 | 999,999 |
| 100 | 80 | 200 | 160 | 3.2 | 2.0 | 0.001 | 999,999 |
| 150 | 80 | 500 | 400 | 8.0 | 5.0 | 0.001 | 9,999,999 |
| 200 | 80 | 800 | 630 | 12.6 | 7.88 | 0.001 | 9,999,999 |
| 250 | 80 | 1260 | 1008 | 20.16 | 12.6 | 0.02 | 9,999,999 |
| 300 | 80 | 2000 | 1600 | 32 | 20 | 0.02 | 9,999,999 |
| 350 | 80 | 2800 | 2240 | 44.18 | 28 | 0.2 | 999,999,999 |
| 400 | 80 | 3200 | 2560 | 51.2 | 32 | 0.2 | 999,999,999 |
| 450 | 80 | 3200 | 2560 | 51.2 | 32 | 0.2 | 999,999,999 |
| 500 | 80 | 5000 | 4000 | 80 | 50 | 0.2 | 999,999,999 |
| 600 | 80 | 8000 | 6400 | 128 | 80 | 0.2 | 999,999,999 |



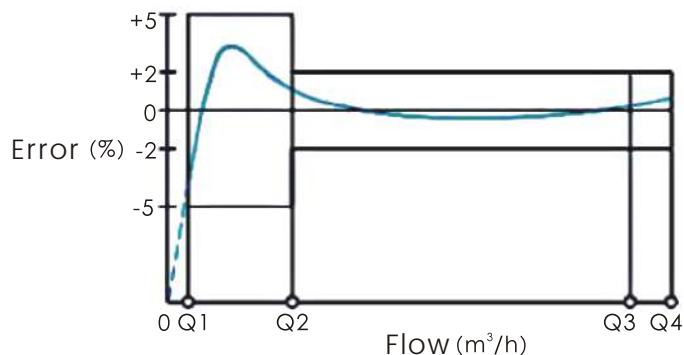
Overall dimension and weight :

| DN (mm) | Length | Height | Flange outer diameter | Connection flange | | Reference weight |
|------------|--------|--------|--------------------------|---|-------------------------------|------------------|
| | L(mm) | H(mm) | | Center diameter of bolt hole D1 (mm) | Number of connecting bolts | kg |
| 40 | 200 | 198 | 150 | 110 | 4-M16 | 8.3 |
| 50 | 200 | 205 | 165 | 125 | 4-M16 | 10 |
| 65 | 200 | 218 | 185 | 145 | 4-M16 | 12.5 |
| 80 | 225 | 280 | 200 | 160 | 8-M16 | 13.6 |
| 100 | 250 | 290 | 220 | 180 | 8-M16 | 18.3 |
| 150 | 300 | 320 | 285 | 240 | 8-M20 | 28 |
| 200 | 350 | 365 | 340 | 295 | 12-M20 | 44.8 |
| 250 | 450 | 434 | 450 | 400 | 12-M20 | 80 |
| 300 | 500 | 459 | 500 | 410 | 12-M24 | 98 |
| 350 | 500 | 590 | 505 / 520 | 460 / 470 | 16-M20 / 16-M24 | 145 |
| 400 | 600 | 660 | 565 / 580 | 515 / 525 | 16-M24 / 16-M24 | 199 |
| 450 | 600 | 700 | 615 / 640 | 565 / 585 | 20-M24 / 20-M27 | 270 |
| 500 | 800 | 760 | 670 / 715 | 620 / 650 | 20-M24 / 20-M30 | 320 |
| 600 | 800 | 880 | 780 / 840 | 725 / 770 | 20-M27 / 20-M33 | 520 |

Indication error curve :



Flow error curve :



- A. The maximum allowable error of a low area ($Q1 \leq Q < Q2$) is $\pm 5\%$
- B. When the water temperature is $\leq 30^{\circ}\text{C}$,
the maximum allowable error in the high area ($Q2 \leq Q \leq Q4$) is $\pm 2\%$
When the water temperature is $> 30^{\circ}\text{C}$,
the maximum allowable error in the high area ($Q2 \leq Q \leq Q4$) is $\pm 3\%$

Model: WS-40-200

Use: vertical woltman water meter is a kind of woltman (screw wing) water meter. Screw wing water meter, also known as Woltmann water meter, is a kind of speed water meter, which is suitable for use in large-diameter pipeline. It is characterized by large flow capacity and small pressure loss.



Installation method :

1. Horizontal installation.
2. Additional water filter is not required.
3. The water inlet / outlet of the water meter does not need the requirements of straight pipe section.

Material: Cast iron shell

Applicable conditions:

Cold water: 0.1 ~ 30 °C

Hot water: 0.1 ~ 90 °C

Working pressure: 1.0MPa

Characteristics :

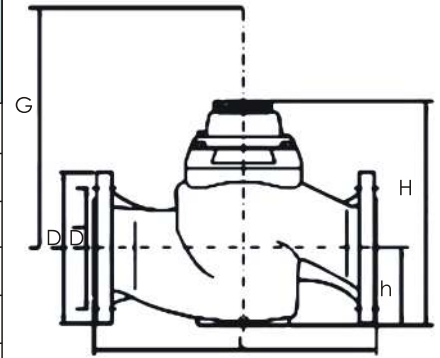
1. No worm gear transmission mechanism, impeller directly drives counter, high transmission efficiency and low starting flow.
2. Wide range, suitable for occasions with large flow change.
3. Full flow detection, high measurement accuracy.
4. Dry magnetic transmission structure ensures that the counter is clean and clear.
5. The six digit enlarged digital wheel displays the reading, and the reading is clearer.
6. The detachable metering movement structure is convenient for maintenance.
7. Internal adjustment structure to prevent private meter adjustment.
8. Built in stainless steel filter screen effectively protects the measuring mechanism.
9. The high wear-resistant bearing system (gem bearing for aviation instrument + high wear-resistant cemented carbide shaft) ensures the long-term stability and reliability of the product and significantly improves the maximum flow of the product.
10. Stainless steel fasteners and epoxy resin powder are applied inside and outside the shell to maximize rust prevention and prolong the service life of the product; Optional anti prying protective cover (prevent users from disassembling the movement without permission, damaging or changing the measuring mechanism, and play the role of anti-theft water to the greatest extent).

Technical parameter :

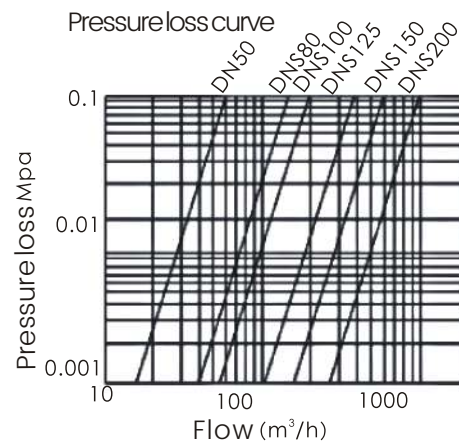
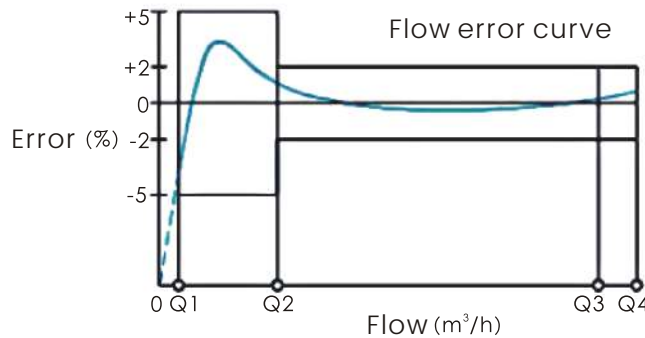
| DN (mm) | Flow range | Maximum flow Q4 | Common flow Q3 | Boundary flow Q2 | Minimum flow Q1 | Minimum reading | Maximum reading |
|------------|------------|--------------------|-------------------|---------------------|--------------------|--------------------|--------------------|
| | Q3/Q1 | m ³ /h | | | | m ³ | |
| 40 | 50/200 | 50 | 40 | 1.28 / 1.25 | 0.8 / 0.2 | 0.0001 | 999,999 |
| 50 | 50/200 | 50 | 40 | 1.28 / 1.25 | 0.8 / 0.2 | 0.0001 | 999,999 |
| 80 | 50/200 | 80 | 63 | 2.0 / 2.0 | 1.26 / 0.32 | 0.0001 | 999,999 |
| 100 | 50/200 | 125 | 100 | 3.2 / 3.12 | 2.0 / 0.5 | 0.0001 | 999,999 |
| 150 | 50/200 | 312 | 250 | 8.0 / 7.88 | 5.0 / 1.25 | 0.0001 | 999,999 |
| 200 | 50/200 | 500 | 400 | 12.8 / 12.5 | 8.0 / 2.0 | 0.0001 | 999,999 |

Overall dimension and weight :

| DN (mm) | Length | | Height | | Connection flange | | | Reference weight |
|------------|-----------|-----------|-----------|-----------------------------|--|-----------------------------|------|------------------|
| | L (mm) | H (mm) | h (mm) | Flange outer diameter | Centerdiameter ofbolthole D1(mm) | Numberof connectingbolts | kg | |
| 40 | 280 | 228 | 85 | 150 | 110 | 4*M16 | 11.6 | |
| 50 | 280 | 228 | 85 | 165 | 125 | 4*M16 | 12 | |
| 80 | 370 | 282 | 103 | 200 | 160 | 8*M16 | 21.3 | |
| 100 | 370 | 303 | 114 | 220 | 180 | 8*M16 | 25 | |
| 150 | 500 | 430 | 155 | 285 | 240 | 8*M20 | 68.2 | |
| 200 | 500 | 505 | 190 | 340 | 295 | 12*M20 | 99.8 | |



Indication error curve:



- A. The maximum allowable error of a low area ($Q1 \leq Q < Q2$) is $\pm 5\%$
 B. When the water temperature is $\leq 30^\circ\text{C}$,
 the maximum allowable error in the high area ($Q2 \leq Q \leq Q4$) is $\pm 2\%$
 when the water temperature is $> 30^\circ\text{C}$,
 the maximum allowable error in the high area ($Q2 \leq Q \leq Q4$) is $\pm 3\%$

Shengda Water Meter since 1995

Established in 1995, Shengda Water Meter Co., Ltd is one of leading manufacturer of water meters and flow meters in China. The company also provides total solutions for smart flow metering, control, telemetry and smart water meter reading system.



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