# WOLTMANN PULSE EMITTER WATER METER

Data Sheet

## FEATURES

- Dry dial
- Threaded Woltmann (2") type for cold and hot water
- Flange sizes range: from 2" to 8"
- Woltmann water meter for horizontal and vertical assembly
- Working temperature: cold water up to 60° C
  CWCA mod. up to 130 °C @ 16 bar
- Epoxy coated cast iron housing (except for CWFI with brass housing)
- Max voltage 250 VAC, 200 VDC
- Max current 1.0 A
- Max power 10 VA
- Insulation voltage 4000 Vac
- Available water meter without pulse emitter

R021025

## Configuration Info

| MODELS | |
|---|---|
| CWFA | "CWFA" - Woltmann pulse sender water meter (cold water, dry dial) |
| CWCA | "CWCA" - Woltmann pulse sender water meter (hot water, dry dial) |
| CWFI | "CWFI" - Woltmann pulse sender water meter (cold water, dry dial, threaded 2") |
| CWFAT | "CWFAT" - Woltmann pulse sender water meter (cold water, dry dial, teflon coated) |

Model CWCA. 015 0 01 L 0 2.5

| GAUGES | | |
|---|---|---|
| | inc | mm |
| 050 | 2 | 50 |
| 065 | 2 1/2 | 65 |
| 080 | 3 | 80 |
| 100 | 4 | 100 |
| 150 | 6 | 150 |
| 200 | 8 | 200 |
| 250 | 10 | 250 |
| 300 | 12 | 300 |

| CONNECTORS | |
|---|---|
| *0* | BNC |
| *1* | 2 wires |
| *3* | 2 wires (coaxial cable) |

| QUANTITY PER PULSES | |
|---|---|
| *L* | 1 litre |
| *D* | 10 litres |
| *C* | 100 litres |
| *M* | 1000 litres |

| PULSES PER LITRE |
|---|
| refer to the tables "Pulses per litre" |

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## PULSES PER LITRE

| PULSES PER LITER FOR CWFA / CWFI SERIES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Water meter caliber | | | | | | | |
| | 50 - 2" | 65 - 2,5" | 80 - 3" | 100 - 4" | 150 - 6" | 200 - 8" | 250 - 10" | 300 - 12" |
| Pulses for 10 lt | 1-2-4 | 1-2-4 | 1-2-4 | n/a | n/a | n/a | n/a | n/a |
| Pulses for 100 lt | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | n/a | n/a | n/a |
| Pulses for 1000 lt | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 |
| Pulses for 10000 lt | n/a | n/a | n/a | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 | 1-2-4 |

| PULSES PER LITER FOR CWCA | | | | | | |
|---|---|---|---|---|---|---|
| | Water meter caliber | | | | | |
| | 50 - 2" | 65 - 2,5" | 80 - 3" | 100 - 4" | 150 - 6" | 200 - 8" |
| Pulses for 100 lt | 1 | | | | n/a | |
| Pulses for 1000 lt | n/a | | | | 1 | |

## DIMENSIONS

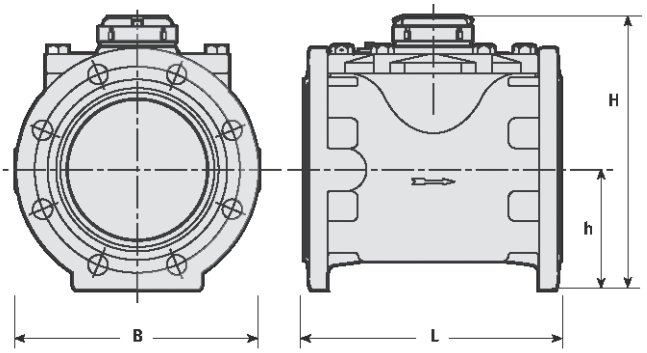
| GAUGES | (mm) | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 | CWFI 50 |
|---|---|---|---|---|---|---|---|---|---|---|
| | (inch) | 2 | 21/2 | 3 | 4 | 6 | 8 | 10 | 12 | CWFI 2 |
| L - Length (mm) | | 200 | 200 | 230 | 250 | 300 | 350 | 450 | 500 | 200 |
| B - Width (mm) | | 165 | 185 | 200 | 200 | 283 | 340 | 406 | 460 | - |
| H - Height (mm) | | 214 | 228 | 234 | 250 | 310 | 338 | 438 | 465 | 175 |
| h - Height (mm) | | 70 | 84 | 90 | 106 | 130 | 158 | 258 | 330 | - |
| Weight (kg) | | 12 | 13 | 15.5 | 19 | 35 | 47 | 75 | 95 | 5 |

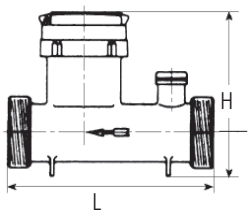
**CWFAT**

DRY DIAL

- MAX 60°C - 16 BAR
- Woltman cold water pulse emitting water meter
- Internal and external PTFE coating
- 2,5 m cable

| | |
|---|---|
| CWFAT 50 | Flange 2" |
| CWFAT 65 | Flange 2.1/2" |
| CWFAT 80 | Flange 3" |
| CWFAT 100 | Flange 4" |

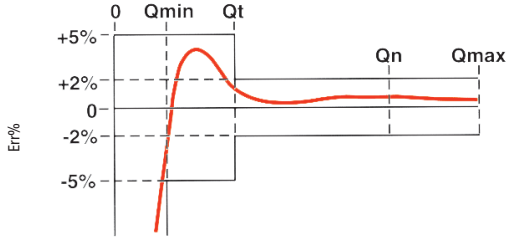


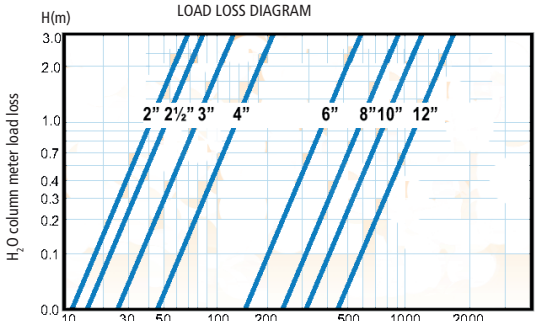

## FEATURES

| DN diameter (mm) | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|---|---|---|
| Q3 Permanent flow rate (m³/h) | 40 | 63 | 100 | 160 | 160 | 250 | 400 | 1000 | 1000 |
| Q4 Overload flow rate (m³/h) | 50 | 78.8 | 125 | 200 | 200 | 312.5 | 500 | 1250 | 1250 |
| Q2 Transitional flow rate [MPE ±2%] (m³/h) | 0.8 | 1.2 | 2 | 3.2 | 3.2 | 5 | 8 | 20 | 20 |
| Q1 Minimum flow rate [MPE ±5%] (m³/h) | 0.5 | 0.78 | 1.25 | 2 | 2 | 3.125 | 5 | 12.5 | 12.5 |
| S Sensitivity (m³/h) | 0.15 | 0.15 | 0.25 | 0.3 | 0.5 | 0.8 | 2 | 3 | 4 |
| MAP Max permissible pressure (bar) | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Maximum reading (m³) | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 | 10^6/10^7 | 10^8 | 10^8 | 10^8 |
| Minimum reading unit (l) | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 | 50 | 50 | 50 |
| Total length L (mm) | 200 | 200 | 225 | 250 | 250 | 300 | 350 | 450 | 500 |
| Height H (mm) | 209 | 218 | 249 | 258 | 271 | 316 | 345 | 463 | 505 |
| Diameter B (mm) | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 405 | 489 |
| Height h (mm) | 77 | 86 | 95 | 104 | 117 | 133 | 162 | 203 | 245 |
| Weight (kg) | 10 | 11.2 | 15.2 | 17.2 | 22.4 | 29 | 42.6 | 80 | 95 |

ERROR CURVE




LOAD LOSS DIAGRAM

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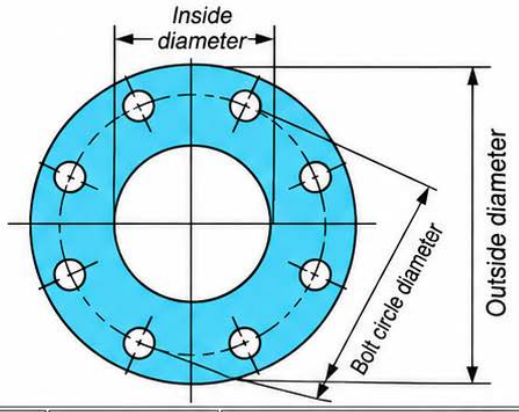
# WATER METER

Data Sheet

**UNI EN 1092-1** (ex UNI 2278-67)




| DN mm | Outside diameter mm | Inside diameter mm | Thickness mm | Holes | | | Weight kg |
|---|---|---|---|---|---|---|---|
| | | | | Bolt circle diameter mm | Hole diameter mm | Number | |
| **15** | 95 | 22 | 14 | 65 | 14 | 4 | 0,67 |
| **20** | 105 | 27,5 | 16 | 75 | 14 | 4 | 0,94 |
| **25** | 115 | 34,5 | 16 | 85 | 14 | 4 | 1,11 |
| **32** | 140 | 43,5 | 18 | 100 | 18 | 4 | 1,82 |
| **40** | 150 | 49,5 | 18 | 110 | 18 | 4 | 2,08 |
| **50** | 165 | 61,5 | 20 | 125 | 18 | 4 | 2,73 |
| **65** | 185 | 77,5 | 20 | 145 | 18 | 4 | 3,16 |
| **80** | 200 | 90,5 | 20 | 160 | 18 | 8 | 3,60 |
| **100** | 220 | 116 | 22 | 180 | 18 | 8 | 4,39 |
| **125** | 250 | 141,5 | 22 | 210 | 18 | 8 | 5,41 |
| **150** | 285 | 170,5 | 24 | 240 | 22 | 8 | 7,14 |
| **200** | 340 | 221,5 | 26 | 295 | 22 | 12 | 9,73 |
| **250** | 405 | 276,5 | 29 | 355 | 26 | 12 | 14,20 |
| **300** | 460 | 327,5 | 32 | 410 | 26 | 12 | 19,00 |
| **350** | 520 | 359,0 | 35 | 470 | 26 | 16 | 28,20 |
| **400** | 580 | 411 | 38 | 525 | 30 | 16 | 35,90 |
| **450** | 640 | 462 | 42 | 585 | 30 | 20 | 46,10 |
| **500** | 715 | 513,5 | 46 | 650 | 33 | 20 | 64,00 |
| **600** | 840 | 616,5 | 52 | 770 | 36 | 20 | 96,00 |
| **700** | 910 | - | - | 840 | 36 | 24 | - |
| **800** | 1.025 | - | - | 950 | 39 | 24 | - |
| **900** | 1.125 | - | - | 1.050 | 39 | 28 | - |
| **1.000** | 1.255 | - | - | 1.170 | 42 | 28 | - |

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