

Cold water counter Woltmann type with axial propeller OMEGA-WE-SDC



- For high flow rates up to 3125 m³/h
- Removable mechanism, dry dial
- Magnetic transmission
- For horizontal or vertical pipe

APPLICATIONS

- Cold water flow measurements on horizontal or vertical pipe
- Options: Pulse output, Remote display Totalizer

DESCRIPTION

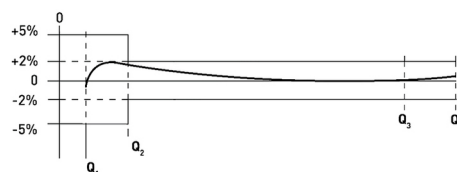
Principle of operation Woltman type: The flowing liquid drives a helix in the horizontal axis of the counter.

Type: WOLTMANN, with axial propeller, removable mechanism, dry dial rotating through 360 °, magnetic transmission, direct reading.
The mechanism and totalizer display are inside a vacuum-sealed capsule. The body is in epoxy coated cast iron.

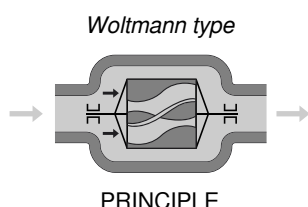
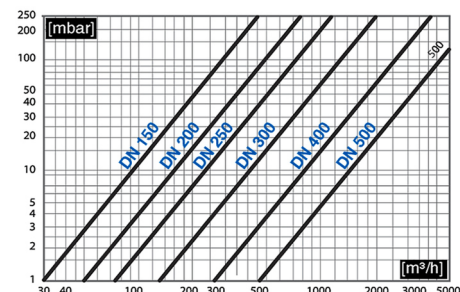
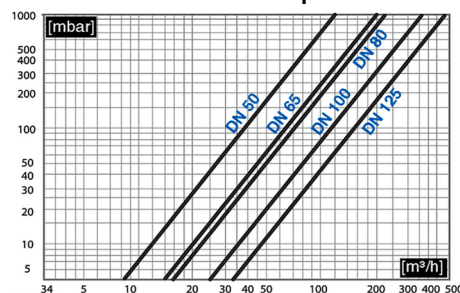
Performances of these counters comply with the MID Directive 2014/32/UE which replaces MID 2004/22/EC.

TECHNICAL FEATURES

Typical accuracy



Pressure drop



EC Conformity: The instrument meets the legal requirements of the current European Directives.

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01-02-2022

D-787.10-EN-AC

DEB

787-10/1

FLOW RANGES

ND 50 0.5 ... 50 m ³ /h	ND 65 0.788 ... 78.75 m ³ /h	ND 80 0.788 ... 78.75 m ³ /h	ND 100 1.25 ... 125 m ³ /h	ND 125 2 ... 200 m ³ /h	ND 150 3.125 ... 312.5 m ³ /h
ND 200 5 ... 500 m ³ /h	ND 250 7.875 ... 787.5 m ³ /h	ND 300 12.5 ... 1,250 m ³ /h	ND 400 20 ... 2,000 m ³ /h	ND 500 31.25 ... 3,125 m ³ /h	-----

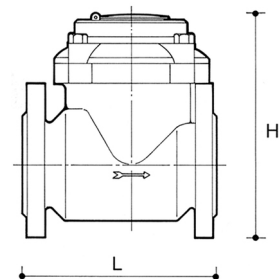
CODE NUMBERS AND FEATURES

Code	787600	787 601	787 602	787 603	787 604	787 605	787 606	787 607	787 608	----	----
ND	50	65	80	100	125	150	200	250	300	400	500
Flanges	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	16"	20"
Performances according to MID 2014/32/UE — MID metrological class (Q₃ / Q₁) R = 80											
Min. flow Q₁ [l/h]	500	788	1,250	2,000	3,125	5,000	7,875	12,500	20,000	31,250	
Max. flow Q₄ [m³/h]	50	78.75	125	200	312.50	500	787.5	1,250	2,000	3,125	
Constant Flow Q₃ [m³/h]	40	63	100	160	250	400	630	1,000	1,600	2,500	
Transition flow Q₂ [l/h]	800	1,260	2,000	3,200	5,000	8,000	12,600	20,000	32,000	50,000	
PN [bar]	16										
Min. reading [l] (pointer)	0.5				5			50			
Max. reading [m³] (rolls)	999 999					99 999 999					
T° Class	T30/T50										
Dimensions											
Length L [mm]	200	225	250		300	350	450	500	600	800	
Height H [mm]	252	262	272	282	297	341	371	480	516	647	785
Mass [kg]	12.7	14	17	18	24	38	59.2	91.5	114		

(PN 10 or PN 25 on request)

OPTIONS

Code	Description
787 906	Transmitter, pulse output
289 300	Remote Totalizer BCP 48



INSTALLATION

Counter to be mounted in a horizontal or vertical piping, under continuous load and at a maximum temperature of 50 °C.

To limit turbulences due to elbows, changes of sections, valves: straight pipe lengths must be provided upstream and downstream of the counter.

It is imperative to respect the following values:

- Distance upstream: 8 x ND
- Distance downstream: 5 x ND
- If the counter is preceded by a 90° elbow, a butterfly valve or a pump, the upstream length must be the double (16x ND).

If it is impossible to comply with these minima, it is necessary to connect a flow stabilizer of length 3 x D (type perforated disc).

OMEGA counters are designed for installation in horizontal or vertical piping, however respecting the position of the dial: maximum inclination of 90°.

The direction of flow must match that of the arrow on the meter body.

It is strongly recommended to install a screen filter upstream to protect the counter mechanism from solid objects.

After installation, fill the piping system and bleed it to remove air bubbles (the bubbles can cause measurement errors and damage the counter).

For the same reason, it is important to never let the meter drain completely.

Also avoid water hammer.

The operating conditions (pressure, temperature, flow rates) must correspond to the features of the counter.

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