

LXSC-15E~50E Multi-jet Dry Type Vane Wheel Water Meter



Application

- Measuring the volume of cold potable water passing through the pipeline

Working Conditions

- Water temperature: $\leq 40^{\circ}\text{C}$
- Water pressure: $\leq 1.6\text{MPa}$

Features

- With external regulating device
- Magnetic drive, lower transmission resistance
- Magnetic shield, use for external magnetic field protection
- Evacuated and sealed dry dial register ensures clear reading
- Internal strainer
- Inlet strainer

Compliance with Standard

- Technical data conforms to ISO 4064 Class B Standard for horizontal installation

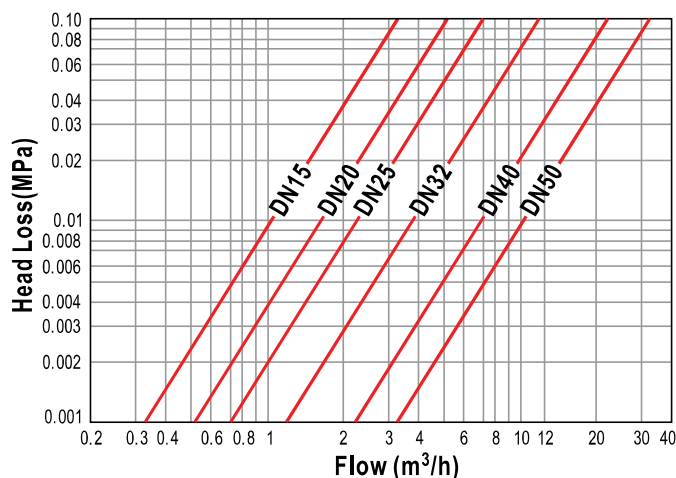
Options

- Non return valve for selecting except LXSC-50E, and LXSC-15E(L=130mm, L=165mm), LXSC-25E(L=225mm), LXSC-32E(L=230mm) and LXSC-40E(L=245mm)
- There are two versions DN50 meter body to choose: with threaded ends and with flanged ends
- Meter for hot water up to 90°C is available
- Can be equipped with reed switch option

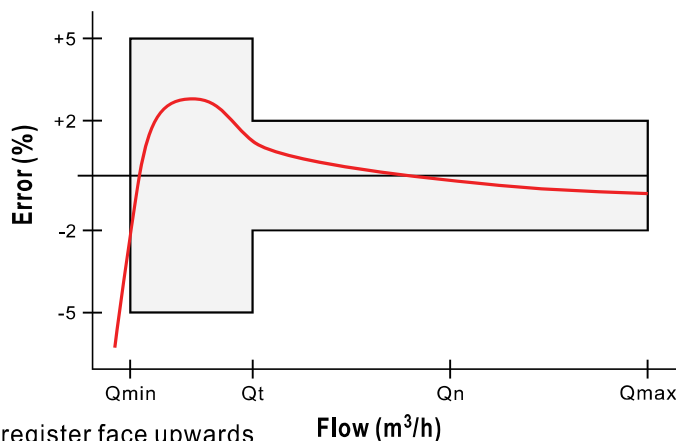
Installation Requirements

- The meter should be installed in horizontal position with the register face upwards
- Pipeline must be flushed before installation
- The meter should be constantly full of water during operation

Head Loss Curve



Accuracy Curve



Main Technical Data

Nominal diameter	DN	15	20	25	32	40	50
Maximum flow rate	m ³ /h Q _{max}	3.0	5.0	7.0	12	20.0	30.0
Nominal flow rate	m ³ /h Q _n	1.5	2.5	3.5	6.0	10.0	15.0
Transition flow rate	l/h Q _t	120	200	280	480	800	1200
Minimum flow rate	l/h Q _{min}	30	50	70	120	200	300
Maximum reading	m ³	99999.99995				999999.99995/999999.9995	
Minimum reading	m ³	0.00005				0.00005/ 0.0005	

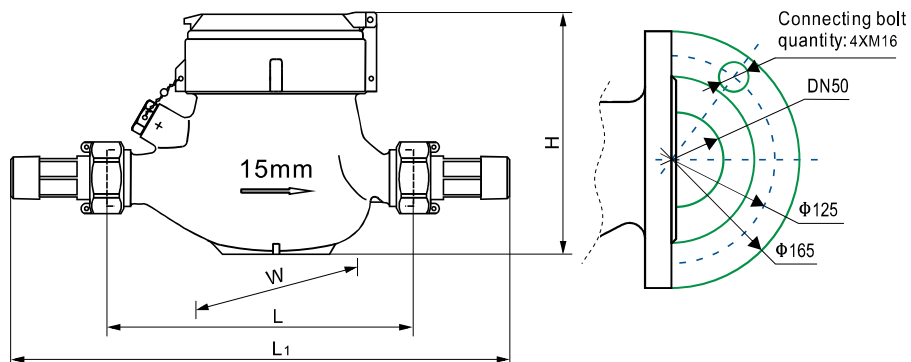
- Maximum Permissible Error:

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

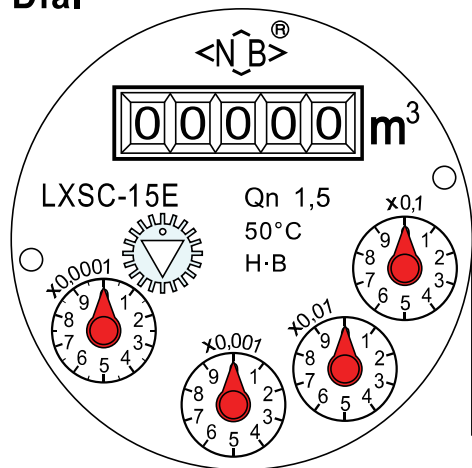
In the upper zone from Q_t inclusive up to and including Q_{max} is $\pm 2\%$ (cold potable water meter).

In the upper zone from Q_t inclusive up to and including Q_{max} is $\pm 3\%$ (hot water meter).

Dimension Picture



Dial



- Nominal diameter and arrow are indicated on the side of the meter body.
- Arrow is indicated on the other side. The lid can open more than 180°.

Dimensions and Weights

Nominal diameter	DN	15	20	25	32	40	50
Body thread	D	G3/4B	G1B	G1 $\frac{1}{4}$ B	G1 $\frac{1}{2}$ B	G2B	G2 $\frac{1}{2}$ B
Connector thread	d	R1/2	R3/4	R1	R1 $\frac{1}{4}$	R1 $\frac{1}{2}$	R2
Body length	mm L	165	190	225/260	230/260	245/300	300
Overall length	mm L ₁	259	294	345/380	354/384	376/431	448
Width	mm W	94	94	98	98	122	145
Meter height	mm H	107.5	107.5	117.5	117.5	141.5	177
Weight without connectors	Kg	1.5	1.6	2.2/2.4	2.7/2.9	4.8/5.1	8.5
Weight with connectors	Kg	1.68	1.88	2.72/2.92	3.5/3.7	5.84/6.14	10.22

Nominal diameter	DN	15					20
Body length for selecting	mm L	110	130	145	170	190	160

- DN50(Flanged ends): 11.5 Kg. "L₁" is the total length when coupling gaskets without compression.

EC Type Approval No.

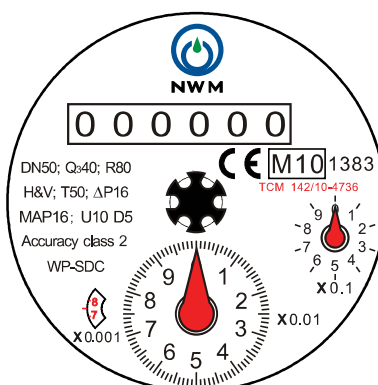
CE **M10** 1383

TCM 142/10-4736

DN40~DN500 Flange Connecting



Dial Plate (Dn50)



WP-SDC Dn40 to Dn500 Copper Can Register

Removable Element Woltman Cold Water Meter

It is a Removable Element Woltman water meter for industrial and irrigation application in sizes from Dn 40 mm to Dn500 mm for cold meter.

Features

- Magnetic drive, lower transmission resistance.
- Super dry type with Copper can Register(IP68).
- Register may be rotated through 360°.
- The measuring mechanism can be removable from the body for checking, maintaining and replacing, no need to dismantle the body from the pipe.
- Low pressure loss, long working life.
- No effected by external magnetic fields.

Standards Compliance

- ISO 4064: 2005 / OIML R49

Optional Features (Pulse Emitter Pre-Equipment)

Reed switch pulse	A group signals for each			
Positions of special pointer	X0.01	X0.1	X1	X10
Water quantity for each circle	0.1m ³	1m ³	10m ³	100m ³
DN40/50/65/80/100/125	◇	◇		
DN150/200		◇	◇	
DN250/300/350/400/500			◇	◇

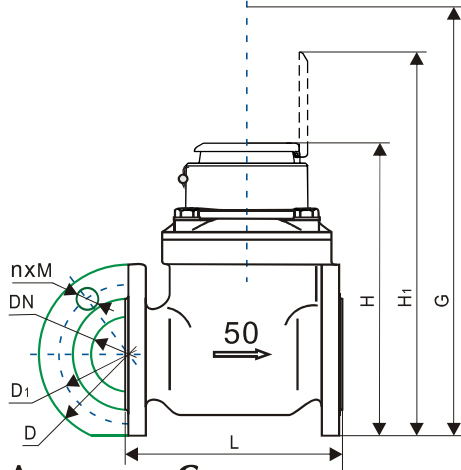
Working Conditions

- Water temperature : T50 or T30
- Water pressure: ≤ 1.6 MPa

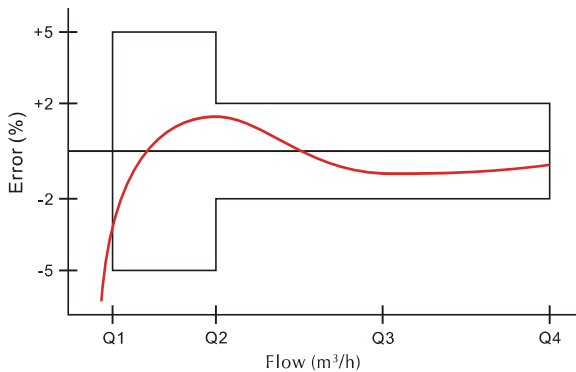
Installation Requirements

- The meter can be installed in any position with the direction of the flow as indicated by the arrow cast in the meter body with the register face upwards.
- 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.
- Pipeline must be flushed before installation.
- The meter should be constantly full of water during operation.

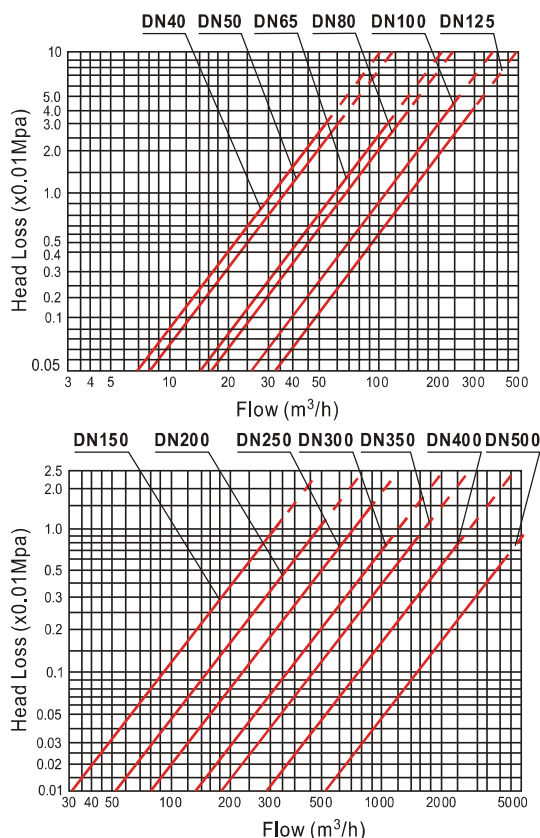
Dimension Picture



Accuracy Curve



Head Loss Curve



Technical Characteristics

Dimensions and Weights for pressure rating PN10

Nominal diameter	DN	40	50	65	80	100	125	150	200	250	300	350	400	500
Length	mm	L	260	200	200	225	250	250	300	350	450	500	600	800
Height	mm	H	249	252	262	272	282	297	341	368	488	511	560	737
Working height	mm	H ₁	321	339	349	359	369	384	428	455	575	598	598	813
Height	mm	G	360	400	400	400	400	500	500	710	730	730	830	930
Outside diameter	mm	D	150	165	185	200	220	250	285	340	395	445	505	670
Circle diameter	mm	D ₁	110	125	145	160	180	210	240	295	350	400	460	620
Connecting bolt quantity	nxM		4xM16			8xM16			8xM20			12xM20		16xM24
Meter weight	Kg		12	13	16	18	20	42	64	94	114		199	340
Body weight	Kg		8.9	10.1	11.5	13.9	18.8	29.6	43	74.4	93		159	290

Note: The weight for reference.

Dimensions and Weights for pressure rating PN16

Nominal diameter	DN	40	50	65	80	100	125	150	200	250	300	350	400	500
Length	mm	L	260	200	200	225	250	250	300	350	450	500	600	800
Height	mm	H	225	252	262	272	282	297	341	371	489	516	560	785
Working height	mm	H ₁	303	339	349	359	369	384	428	458	576	603	603	838
Height	mm	G	360	400	400	400	400	500	500	710	730	730	830	930
Outside diameter	mm	D	150	165	185	200	220	250	285	340	405	460	520	715
Circle diameter	mm	D ₁	110	125	145	160	180	210	240	295	355	410	470	650
Connecting bolt quantity	nxM		4xM16			8xM16			8xM20	12xM20	12xM24	16xM24	16xM27	20xM30

Available length for selecting

Nominal diameter	For Selecting Length (L) mm
DN40 mm	300
DN50 mm	250
DN65 mm	250
DN80 mm	300
DN100 mm	360
DN150 mm	430
DN400 mm	500
DN500 mm	500

Performance data according to EC-Type Approval (ISO 4064: 2005)

Nominal diameter	DN	40	50	65	80	100	125	150	200	250	300	350	400	500
Maximum flow rate	m³/h	Q4	31.25	50	78.75	78.75	125	200	312.5	500	787.5	1250	1250	3125
Nominal flow rate	m³/h	Q3	25	40	63	63	100	160	250	400	630	1000	1000	2500
Transition flow rate	m³/h	Q2	0.8	0.8	1.26	1.26	2	3.2	5	8	12.6	20	20	50
Minimum flow rate	m³/h	Q1	0.5	0.5	0.7875	0.7875	1.25	2	3.125	5	7.785	12.5	12.5	31.25
Measuring range	R		50						80					

Description of the Register

Nominal diameter	DN40/50/65/80/100/125	DN150/200	DN250/300/350/400/500
Number of black numbered roller	6	6	6
Number of red numbered roller	0	0	0
Number of black pointer	0	1	2
Number of red pointer	3	2	1
Maximum reading	m³	999999.999	9999999.99
Minimum reading	m³	0.0005	0.005

Maximum Permissible Error

When water temperature Class is T30:

In the lower zone from Q₁ inclusive up to but excluding Q₂ is ± 5% .

In the upper zone from Q₂ inclusive up to and including Q₄ is ± 2% .

When water temperature Class is T50:

In the lower zone from Q₁ inclusive up to but excluding Q₂ is ± 5% .

In the upper zone from Q₂ inclusive up to and including Q₄ is ± 3% .

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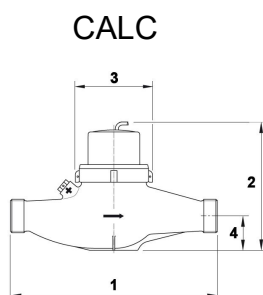
CALC velocity heat meter suitable for hot water max 130 °C

- For heating purposes, solar and industrial applications
- MI004 MID approved
- Accuracy class 2 or 3 EN1434
- Environmental class C

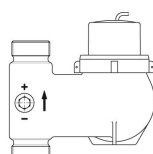
- ❑ Multijet meter with magnetic transmission
- ❑ Horizontal installation only
- ❑ Certified range of temperature: from DN15 to DN40: +5 ... +130 °C; DN50: +15 ... +130 °C
- ❑ Rotating dry dial with large numerical rolls and a metallic protection cover
- ❑ Standard working pressure PN16 (PN 25 available only flanged version)
- ❑ Specific high resistance materials against wear and corrosion
- ❑ Flow sensors are connected to a separate electronic counters via a reed switch emitting sensor, available resolution : K 10. Max voltage: 28 V. - 100mA. Max resistance: 105 ohm- Polarity: none- Pulse duration: ≥100ms - Switching interval ≥100ms – Other possible resolution on request: Dn 15 - 30: K=1 -2,5-25; DN 40: only K=100
- ❑ Models for vertical installation, either for vertical riser flows (CALC-VA) or down pipe flows (CALC-VD) (3/4" Qp 1,5 – 3/4" Qp 2,5 - 1" Qp 3,5 - 1.1/4" Qp 6 – 1.1/2" Qp 10) available on request
- ❑ For heating/cooling applications, please contact our technical office



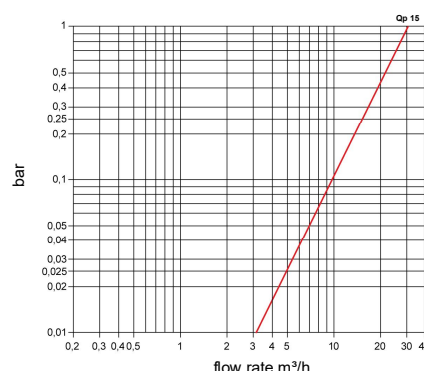
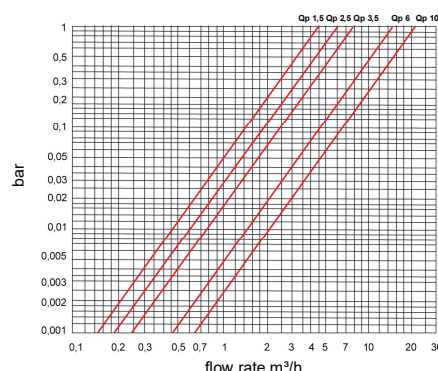
Technical data	DN15	DN20	DN25	DN32	DN40	DN50
Max Flow Rate Q_s (m³/h)	3	5	7	12	20	30
Nominal Flow Rate Q_p (m³/h)	1,5	2,5	3,5	6	10	15
Size (inches)	G3/4	G1	G1.1/4	G1.1/2	G2	G2.3/8
Minimum Flow Rate Q_i (l/h)	30	50	70	120	200	300
Max. Working Pressure (bar)	16	16	16	16	16	16
Ratio Q_i/Q_p	1:50	1:50	1:50	1:50	1:50	1:50
1) Length without couplings (mm)	165	190	260	260	300	300
Length including couplings (mm)	245	288	378	378	438	454
2) Max height (mm)	155	155	170	170	190	199
3) Maximum diameter (mm)	97	97	103	103	140	151
4) Distance pipe –ground base (mm)	36,5	36,5	49	49	62	57
Weight without couplings (kg)	~1,85	~2,10	~2,90	~2,90	~5,20	~7,4



**CALC-VA
CALC-VD**



Head loss diagrams



The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. 02-16



G. GIOANOLA SISMA meters

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G. GIOANOLA



WALC MID horizontal helical vane meter suitable for hot water max 130 °C

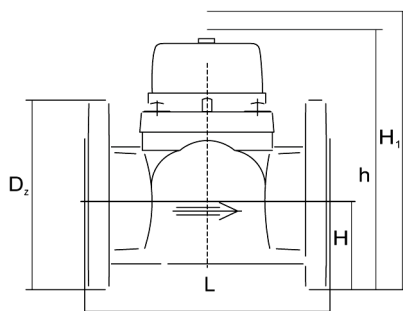
MID approval MID MI004 EN1434 Directive 2004/22/EC

- ☐ Volumetric water meter suitable for connection with separated electronic counter for thermal energy via dry reed contact
- ☐ The internal mechanism can be removed for inspections and maintenance purposes or for replacement
- ☐ 360° rotating dial, magnetic proof from external influences through a metallic protection cover with degree of protection IP66
- ☐ Reed cable 2 mt long / 10W Max power / 10Ω close - 150MΩ open Max. resi stance
- ☐ Standard pulse values (K) K100 from DN50 to DN125 / K1000 from DN150 to DN300 (other pulse values K available on request: K250-K2500)
- ☐ Horizontal, vertical and inclined installation
- ☐ Temperature range θ_{min} 0,1 °C θ_{max} 130 °C
- ☐ Maximum allowed working pressure MAP 1,6 MPa (16 bar)
- ☐ Environmental class C / Accuracy class 3
- ☐ Flanges according to EN1092 PN16

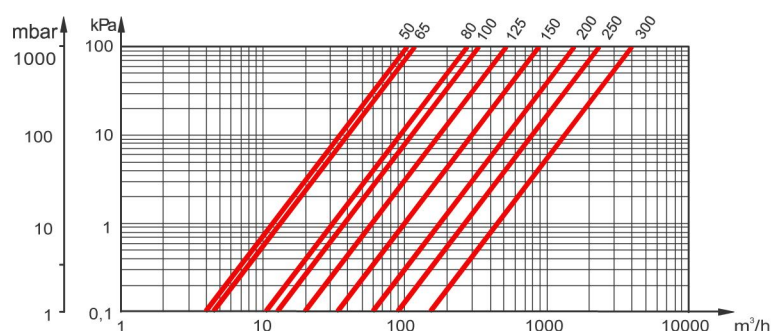


Technical data	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Max flow rate for short period [m³/h]	30	50	80	120	200	300	500	800	1200
Permanent flow rate Q _n [m³/h]	15	25	40	60	100	150	250	400	600
Minimum flow rate Q _i [m³/h]	0,6	1,0	1,6	2,4	4,0	6,0	10	40	60
Max. working pressure [bar]	16	16	16	16	16	16	16	16	16
Starting flow rate [m³/h]	0,25	0,3	0,35	0,6	1,1	2	4	8	15
Maximum reading [m³]	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁷	10 ⁷	10 ⁷	10 ⁷
Scale interval [dm³]	0,5	0,5	0,5	0,5	0,5	5	5	5	50
Length L [mm]	200	200	225 200*	250	250	300	350	450	500
Max. height when removing mechanism H ₁ [mm]	287	297	339	349	377	582	607	652	722
Max. height h [mm]	187	197	219	229	257	357	382	427	497
Distance pipe-ground base H [mm]	72	83	95	105	120	135	160	193	230
Flanges outer diameter D ₂ [mm]	165	185	200	220	250	285	340	400	460
Weight [kg]	9,9	10,6	13,3	15,6	18,1	40,1	51,1	75,1	103,1

* on request



Head loss diagram



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