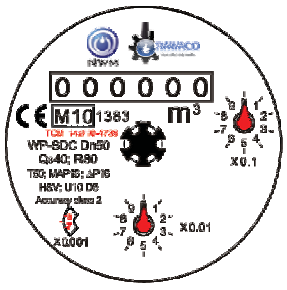
WP-SDC Dn40~Dn500 Plastic Register
Removable Element Woltman Water Meter

EC Type Approval No.

CE M10 1383
TCM 142/10-4736

DN40~DN500 Flange Connection

Dial Plate (Dn50)



It is a Removable Element Woltman water meter for industrial and irrigation application in sizes 40 mm to 500 mm for cold meter.

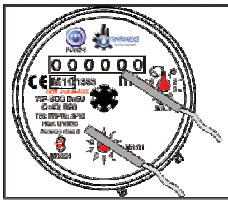
Features

- Magnetic drive, lower transmission resistance.
- Dry dial register ensures clear reading.
- Register may be rotated through 360°
- The measuring mechanism can be removed from the body for checking, maintaining and replacing, and the body don't need to be dismantled from the pipe.
- Low pressure loss, long working life.
- No effected by external magnetic field.

Standards Compliance

- ISO 4064 2005 / OIML R49
- EEC marked
- Conforming to IS 2373

Optional Features (Pluse 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	0.1 m³	1m³	10m³	100m³
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.

IS : 2373
IS 1538-1993
CM/L-1405940

ISO

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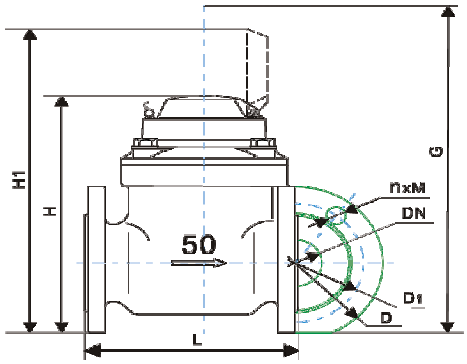
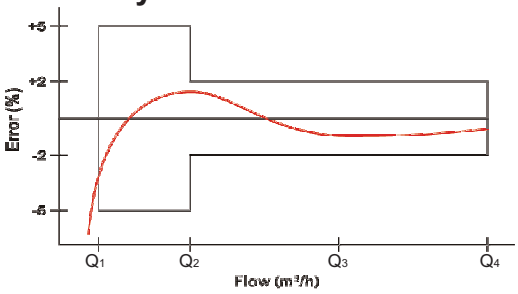
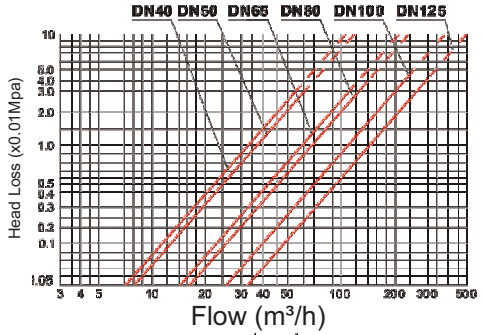
Dimension Picture

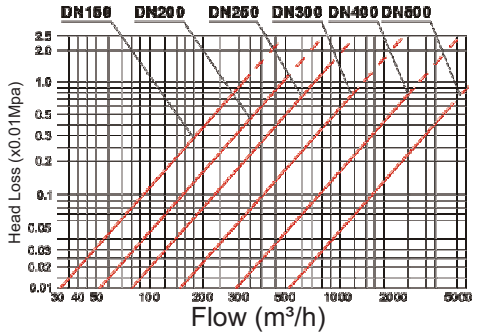


Accurecy Curve



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	200	200	200	225	250	250	300	350	450	500	500	600	600
Height	mm	H	243	250	260	270	290	295	339	366	466	510	555	630	737
Working height	mm	H1	313	320	330	340	350	365	410	437	557	580	625	695	795
Height	mm	G	360	400	400	400	400	400	500	500	710	730	770	830	930
Outside diameter	mm	D	160	165	185	200	220	250	285	340	395	445	505	585	670
Circle diameter	mm	D1	110	125	145	160	180	210	240	295	350	400	460	515	620
Connecting bolt quantity		nxM	4xM16			8xM16			8xM20		12xM20		16xM20	16xM24	20xM24
Meter weight	Kg			12	13	16	18	20	42	64	94	114		189	340
Body weight	Kg			8.8	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	200	200	200	225	250	250	300	350	450	500	500	600	600
Height	mm	H	245	250	260	270	290	295	339	366	467	515	560	647	785
Working height	mm	H1	320	320	330	340	350	365	410	448	558	585	630	705	820
Height	mm	G	360	400	400	400	400	400	500	500	710	730	780	830	930
Outside diameter	mm	D	160	165	185	200	220	250	285	340	405	460	520	600	715
Circle diameter	mm	D1	110	125	145	160	180	210	240	295	356	410	470	525	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		200		
DN50	mm	250	270	310
DN65	mm	250		
DN80	mm	300	413	
DN100	mm	360	483	
DN150	mm	450		
DN200	mm	500		
DN500	mm	600		

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	m^3/h	Q4	31.25	50	78.75	78.75	125	200	312.5	500	787.5	1250	1250	2000	3125
Nominal flow rate	m^3/h	Q3	25	40	63	63	100	160	250	400	630	1000	1000	1600	2500
Transition flow rate	m^3/h	Q2	0.8	0.8	1.26	1.26	2	3.2	5	8	12.6	20	20	32	50
Minimum flow rate	m^3/h	Q1	0.5	0.5	0.7875	0.7875	1.25	2	3.125	5	7.785	12.5	12.5	20	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		2	1	0
Maximum reading	m^3	999999.999	9999999.99	99999999.9
Minimum reading	m^3	0.001	0.01	0.1
Minimum graduation	L	1	10	100

Maximum Permissible Error

When water temperature Class is T30:

In the lower zone from Q_1 inclusive up to but excluding Q_2 is ± 5% .

In the upper zone from Q_2 inclusive up to and including Q_4 is ± 2% .

When water temperature Class is T50:

In the lower zone from Q_1 inclusive up to but excluding Q_2 is ±5% .

In the upper zone from Q_2 inclusive up to and including Q_4 is ± 3% .

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