



DIM-A

Dorot Irrigation Meter

Application

The "DIM" meter is designed for agriculture control applications.
The turbine is located at the top of the pipe.
Major section of the pipe is free for water flow.

Features

- One measuring unit for all meter sizes
- Magnetic drive
- Low head loss
- Optional electrical output
- Hermetical vacuum-sealed register
- Easy reading, by a 360° rotating register
- Flanged connection according to customers request

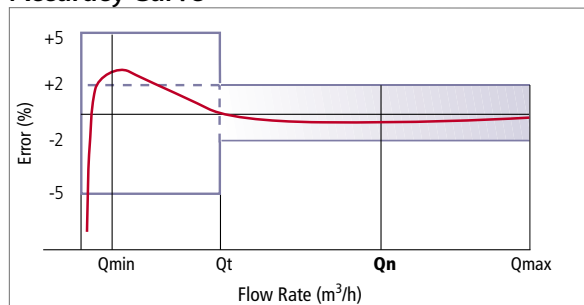
Specifications

- Measuring accuracy meets ISO4064 Class A standard
- Pressure Rating 16 bar
- Body material: Polyester-Coated Cast Iron
- Brass removable cover
- Max. temperature: 60°C

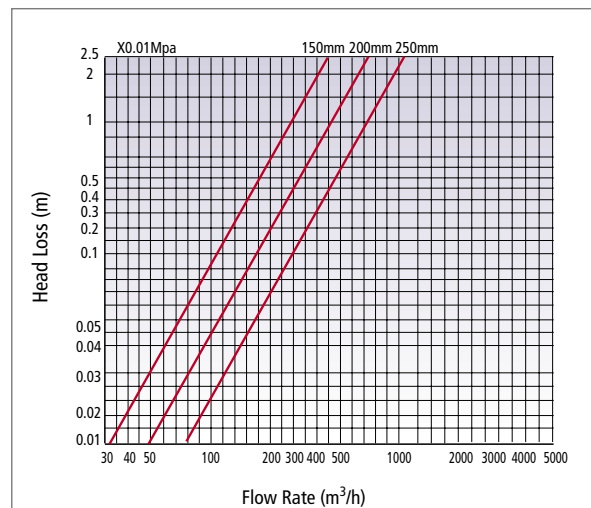
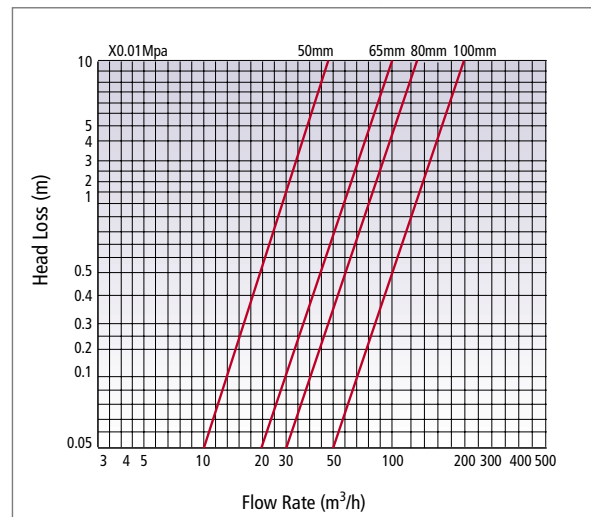
Installation

- The Meter will be full of water during operation
- The Meter can be installed in horizontal, vertical or inclined position
- Flush pipe line before installing the meter or without the measuring unit (using a temporary cover)

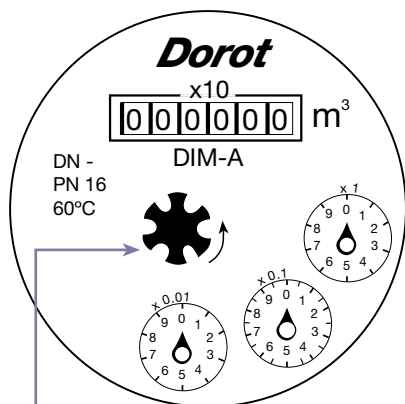
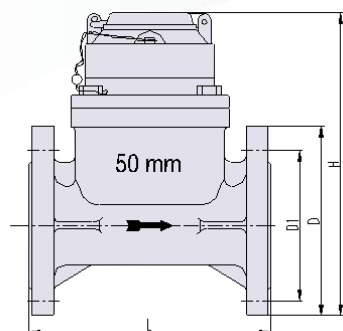
Accuracy Curve



Head Loss



Dorot Irrigation Meter



Flow Sensor

A small rotating "star" in the center of the dial plate helps to detect even the smallest flow through the meter.

ISO 4064 Accuracy Error

Q_{max}	±2%
Q_n	±2%
Q_t	±2% (Transitional Flow)
Q_{min}	±5% (Lowest Flow Rate Error)

Dimensions and Weight

Type	Size	Length L	Height H	Connecting Flange			Weight kg
	mm			Out Dia D mm	Bolt Circle D1 mm	Connecting Bolt	
DIM-50	50	200	252	165	125	4xM16	10.5
DIM-65	65	200	262	185	145	4xM16	12
DIM-80	80	225	279.5	200	160	8xM16	15.5
DIM-100	100	250	289.5	220	180	8xM16	17.5
DIM-150	150	300	332.5	285	240	8xM20	30.5
DIM-200	200	350	386	340	295	8xM20	44
DIM-250	250	450	441.5	395	350	12xM20	60

Technical Data

Type	Size	Maximum Flow Rate Q _s	Normal Flow Rate Q _p	Transitional Flow Rate Q _t	Minimum Flow Rate Q _{min}	Minimum Reading	Maximum Reading
	mm	m ³ /h				m ³	
DIM-50	50	30	15	4.5	1.2	0.005	9999999
DIM-65	65	50	25	7.5	2	0.005	9999999
DIM-80	80	80	40	12	3.2	0.005	9999999
DIM-100	100	120	60	18	4.8	0.005	9999999
DIM-150	150	300	150	45	12	0.005	9999999
DIM-200	200	500	250	75	20	0.005	9999999
DIM-250	250	800	400	120	32	0.05	99999999

How to Order

Model	Optional	Diameter	Flange Standard	*Outputs
DIM	AF - Standard (with preparation for Electrical Output) AE - With Electrical Output AH - Hot Water AQ - Hot Water with Electrical Output	2" - 20" 50mm - 500mm	ISO PN16 ANSI 125 BSTD JIS 10 ABNT PN16	V - Volume (Electrical) F - Flow (Optical)

* **V** - for Volume electrical out put (reed switch)

* **F** - for Flow rate out put (optical)





DMD-A

Multi-Jet Water Meter

Applications

Multi Jet water meter magnetic drive, used to measure the volume of cold potable water passing through the pipeline. For industrial/municipal use.

Features

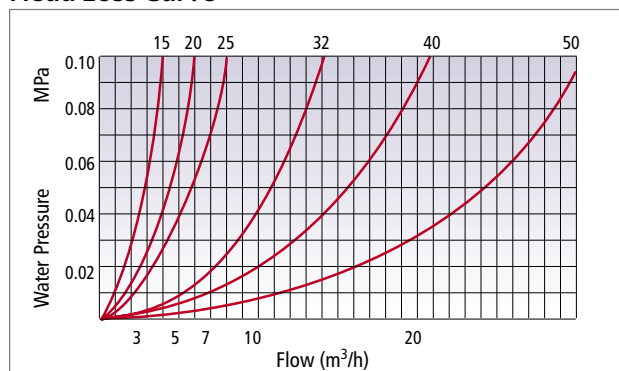
- Magnetic drive
- Dry hermetically sealed
- High accuracy at wide flow range
- Magnetic shield
- Option for electrical out put pulse
- Body: casted of copper alloy
- Meters for hot water up to 90°C are available
- Easy read Rollers totalizer
- Stainless steel pivot for vane wheel
- Internal parts injected from high quality polymers
- Easy maintenance

Technical Data

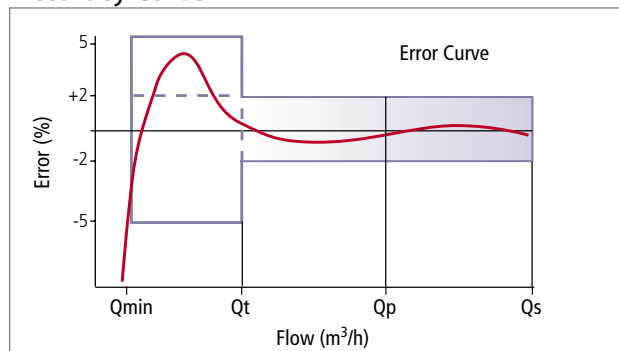
- Performance comply with ISO 4064 Class B standard
- Working Pressure 10 Bar
- Max working temp. 50°C (cold water)
- Threaded connections BSP, NPT
- Installation - Horizontal (for Class B)



Head Loss Curve

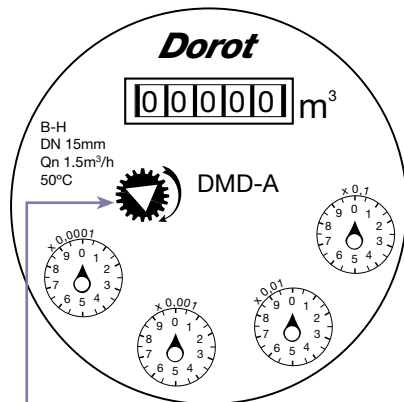
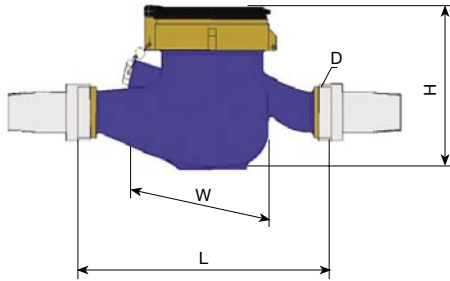


Accuracy Curve



DMD-A

Multi-Jet Water Meter



Flow Sensor

A small rotating “star” in the center of the dial plate helps to detect even the smallest flow through the meter.

ISO 4064 Accuracy Error

Qmax	±2%
Qn	±2% (Half of Qmax)
Qt	±2% (Transi Flow)
Qmin	±5% (Lowest Flow Rate Error)

Dimensions and Weight

Model	DN	Length (mm) L	Width (mm) W	Height (mm) H	Weight Kg	End Thread D
DMD-15	15	165	100	104	1.5	G 3/4B
DMD-15		190				
DMD-20	20	190	100	106	1.7	G 1B
DMD-20		195				
DMD-25	25	225	103	114	2.4	G1 1/4B
DMD-25		260			2.6	
DMD-32	32	230	104	117	2.7	G1 1/2B
DMD-32		260			2.8	
DMD-40	40	245	124	147	4.8	G 2B
DMD-40		300			5.1	
DMD-50	50	280	125	172	8.2	G 2B
DMD-50		300			8.5	

Technical Data

Model	DN	Qmax m³/h	Qn m³/h	Qt L/h	Qmin L/h	Min Reading	Max Reading
DMD-15	15	3	1.5	120	30	0.0001	99999
DMD-20	20	5	2.5	200	50	0.0001	99999
DMD-25	25	7	3.5	280	70	0.0001	99999
DMD-32	32	12	6	480	120	0.0001	99999
DMD-40	40	20	10	800	200	0.001	99999
DMD-50	50	30	15	1200	300	0.001	99999

How to Order

Model	Optional	Diameter	Flange Standard	Output Options
DMD	AF - Standard (with preparation for Electrical Output)	1/2" - 2" 15mm - 50mm	BSP NPT	V - Volume Pulse for m³ Pulse for 10 L Pulse for 100 L
	AE - With Electrical Output			





DSD-A

Single Jet Water Meter Magnetic Drive



Applications

Single Jet water meter magnetic drive, used to measure the volume of cold potable water passing through the pipeline. For industrial/municipal use.

Features

- Magnetic Drive (Dry Type)
- Sealed register
- Small body and light weight
- Coated body, made of corrosion resistant copper alloy
- Magnetic Shield

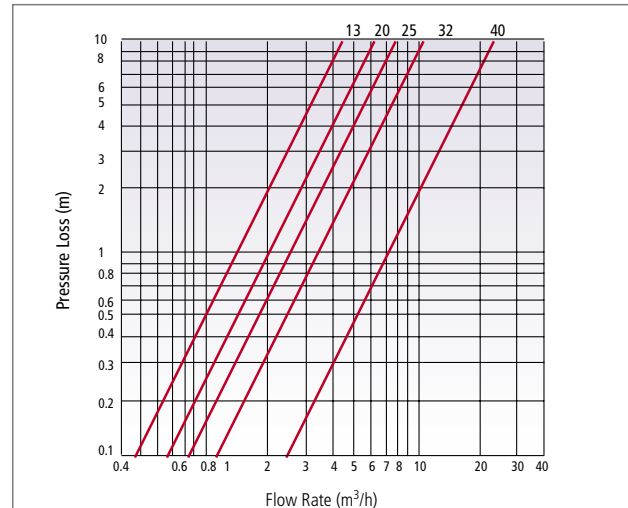
Technical Data

- Max working temperature: 50°C
- Max Working Pressure: 10 BAR
- Installation - Horizontal (for Class B)
- Performance comply with ISO 4064 Class B Standard

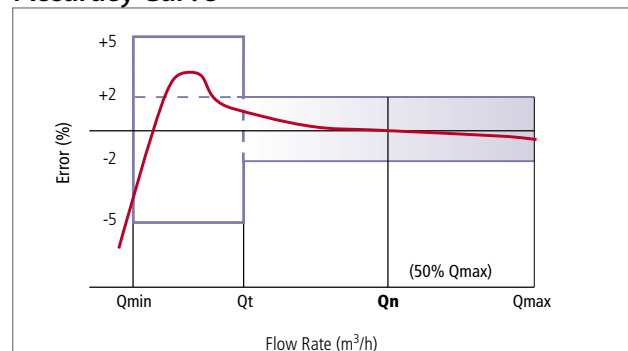
Options

- Equipment with option for electrical output
- Water meter for hot water up to 90°C, are available

Pressure Loss

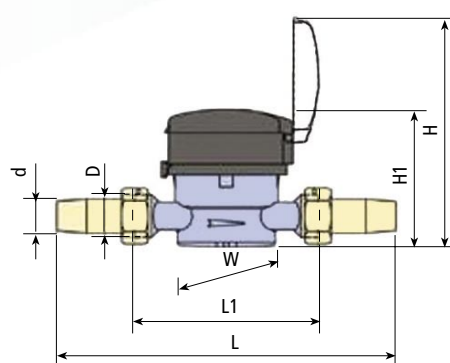


Accuracy Curve



DSD-A

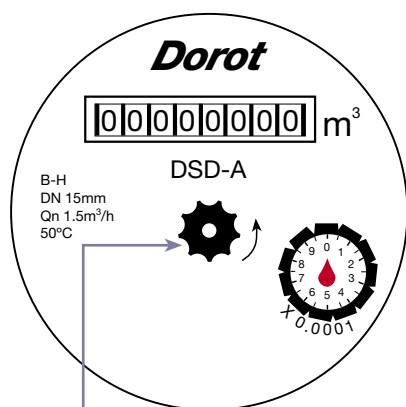
Single Jet Water Meter Magnetic Drive



DSD-13D3-40D3

Dimensions and Weight

Model	Size mm	End Thread	Length (mm) L	Length (mm) L1	Width (mm) W	Height (mm) H	Height (mm) H1
DSD-13D	13	G3/4B	204	110	80	143	88
DSD-20D	20	G1B	234	130	80	143	88
DSD-25D	25	G1B	280	160	80	151	96
DSD-32D	32	G1B	284	160	110	178	123
DSD-40D	40	G2B	331	200	110	178	123



Flow Sensor

A small rotating "star" in the center of the dial plate helps to detect even the smallest flow through the meter.

Main Technical Data

Model	Size mm	Class ISO 4064	Qmax m³/h Max. Flow	Qn (m³/h) Nom. Flow	Qt L/h Transitional Flow	Qmin L/h Min. Flow	Min Reading m³	Max Reading m³	Weight kg
DSD-13D	13	B	3	1.5	120	30	0.0001	99999	0.8
DSD-20D	20	B	5	2.5	200	50	0.0001	99999	0.9
DSD-25D	25	B	7	3.5	280	70	0.0001	99999	1.47
DSD-32D	32	B	12	6	480	120	0.0001	99999	2.56
DSD-40D	40	B	20	10	800	200	0.0001	99999	2.9

How to Order

Model	Optional	Diameter	Flange Standard	*Electrical Output
DSD	AF - Standard (with preparation for Electrical Output) AE - With Electrical Output	1/2" - 1 1/2" 13mm - 40mm	BSP NPT	V - Volume





DWM-A

Turbine Water Meter

Applications

Woltman type water meter, used to measure the volume of cold potable water passing through the pipeline. For industrial/municipal use.



Features

- Meter will be installed in vertical, horizontal or inclined position
- Hermetically sealed register (magnetic coupling)
- Low Head Loss
- Maximum working pressure 16 bar
- Easy maintenance of the measuring unit
- Dial Plate can be supplied in m^3 , or US gallons. Totalizer has big and clear numerals
- Maximum working tempt. $60^{\circ}C$

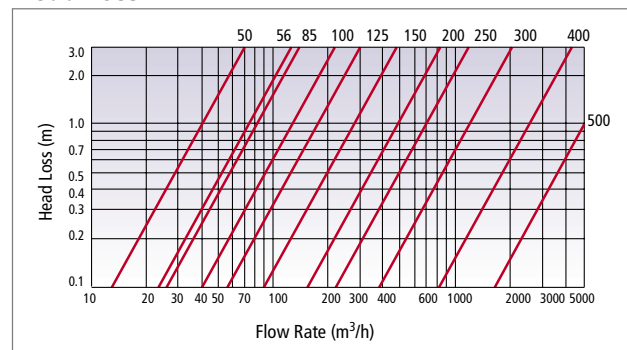
Options

- Equipped with option for electrical output
- Hot water meters in size 2" to 8"

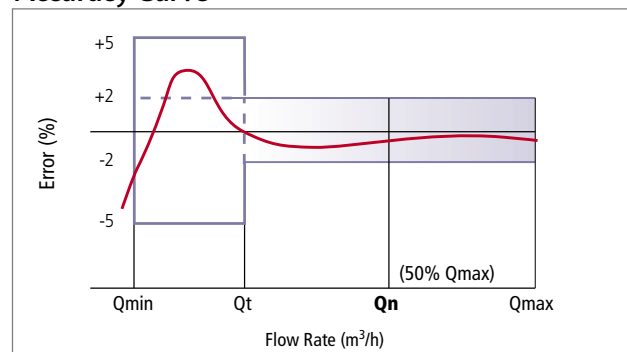
Installation Requirements

- Prior flushing of line before water meter installation
- Meter shall be full of water at flow measuring
- Install meter in the line with straight pipe $5 \times DN$ length at up stream and $3 \times DN$ at down stream

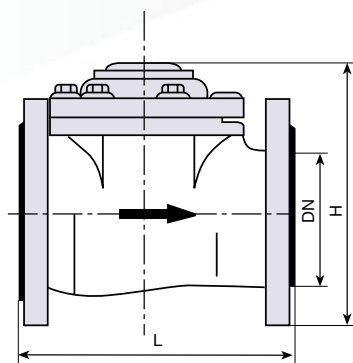
Head Loss



Accuracy Curve



Turbine Water Meter

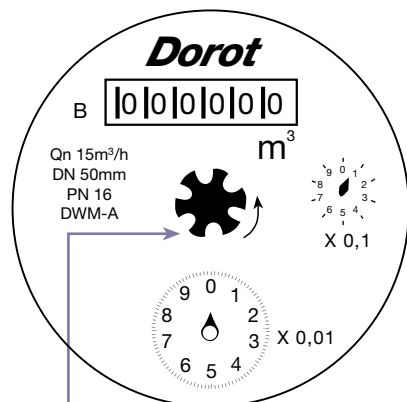


Dimensions

Size DN	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	16"	20"
	mm	50	65	80	100	125	150	200	250	300	400	500
L-Length	mm	200	200	225	250	250	300	350	450	500	600	800
H-Height	mm	256	256	276	286	286	345	373	493	516	631	739
Weight	kg	12	13	16	18	20	42	64	94	114	199	340

Performance data

Size DN	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	16"	20"
	mm	50	65	80	100	125	150	200	250	300	400	500
Nominal Flow Rate Qn (m³/h) (±2%)		15	25	40	60	100	150	250	400	600	1000	1500
Max. Flow Rate Qmax (m³/h) (±2%)		30	50	80	120	250	300	500	800	1200	2000	3000
Transition Flow Rate Qt (m³/h) (±2%)		3	5	8	12	20	30	50	80	120	200	300
Min. Flow Rate Qmin (m³/h) (±5%)		0.65	0.7	1.2	1.8	3	4.5	7.5	12	18	30	45
Max. Register Capacity (m³)		999999	999999	999999	999999	999999	999999	999999	999999	999999	999999	999999
Min. Reading Unit (m³)		0.01	0.01	0.01	0.01	0.01	0.1	0.1	1	1	1	1



Flow Sensor

A small rotating "star" in the center of the dial plate helps to detect even the smallest flow through the meter.

How to Order

Model	Optional	Diameter	Flange Standard	*Outputs
DWM	AF - Standard (with preparation for Electrical Output) AE - With Electrical Output AH - Hot Water AQ - Hot Water with Electrical Output	2" - 20" 50mm - 500mm	ISO PN16 ANSI 125 BSTD JIS 10 ABNT PN16	V - Volume (Electrical) F - Flow (Optical)

* **V** - for Volume electrical out put (reed switch)

* **F** - for Flow rate out put (optical)