



**DN50 ~ DN800
(2"~32")**

MF Series

**Electromagnetic
Flow Meter**

MAIN CHARACTERISTICS

- Based on Faradays Law
- Fluids conductivity $\geq 5\mu\text{s/cm}$
- Remote LCD display
- Bi-Directional flow measurement
- Real-time display of flow-rate, total accumulation, forward/reverse accumulation
- Measuring range: 0.3 m/s ~ 10 m/s with accuracy $\pm 0.2\%FS$
- Sensor IP68 and Converter IP65
- Mains electricity power supply
- Alarm- Empty pipe, High/Low flow limit, reverse flow, etc.
- Customized lining, electrode, and flange connection

APPLICATIONS

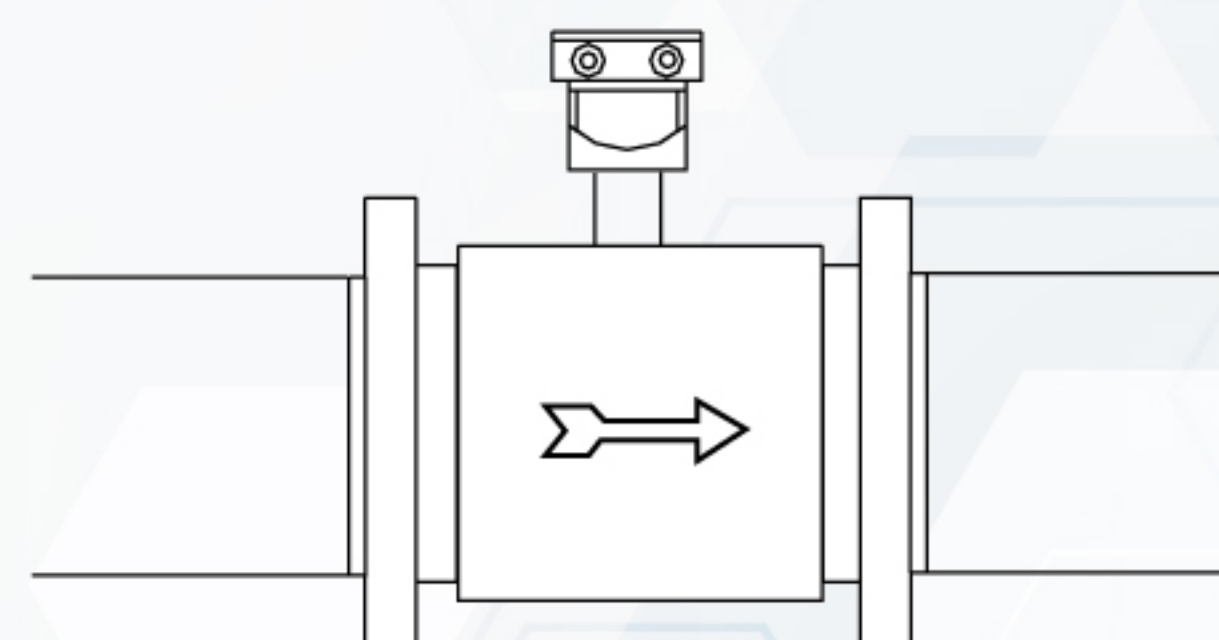
- Water supply, water distribution network
- Waste water treatment plant
- Hot water; Irrigation; Sea water; General industry

DIMENSIONS Unit:mm

Diameter	Pressure	Length	DIN PN10			DIN PN16			Approx. Weight
D	MPa	L	D2	D1	n*d	D2	D1	n*d	kg
50(2")	4.0	200	165	125	4*18	165	125	4*18	12
80(3")	4.0	200	200	160	8*18	200	160	8*18	18
100(4")	1.6	250	220	180	8*18	220	180	8*18	21
150(6")	1.6	300	285	240	8*22	285	240	8*22	32
200(8")	1.0	350	340	295	8*22	340	295	12*22	44
250(10")	1.0	450	395	350	12*22	405	355	12*26	48
300(12")	1.0	500	445	400	12*22	460	410	12*26	58
350(14")	1.0	500	505	460	16*22	520	470	16*26	78
400(16")	1.0	600	565	515	16*26	580	525	16*30	101
450(18")	1.0	600	615	565	20*26	640	585	20*30	111
500(20")	1.0	600	670	620	20*26	715	650	20*33	130

INSTALLATION REQUIREMENT

- Horizontal installation

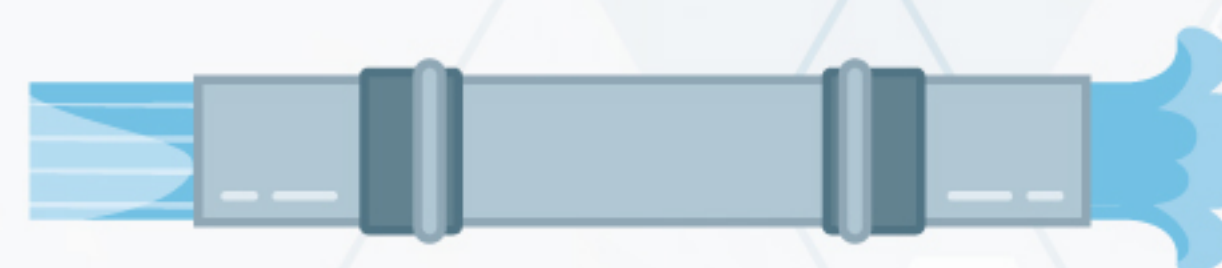


- Requirements for straight pipe upstream/downstream: 5 x DN / 3 X DN.



Flow direction shall be accordance with the flow direction mark

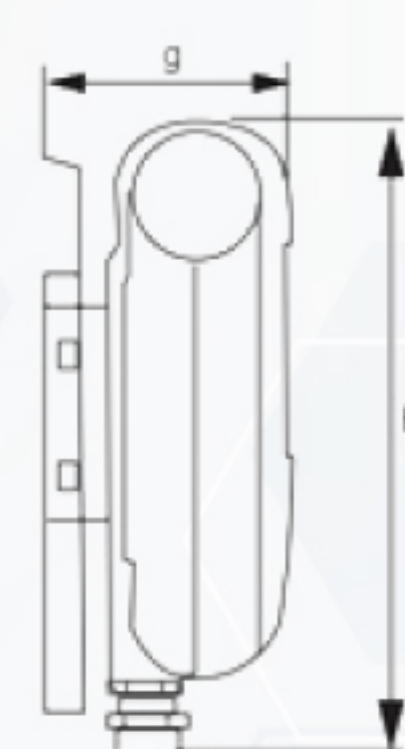
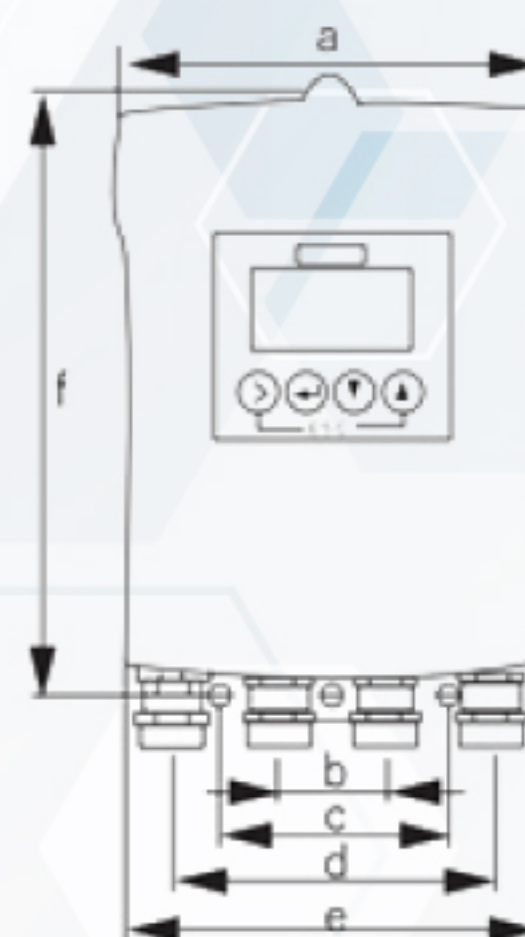
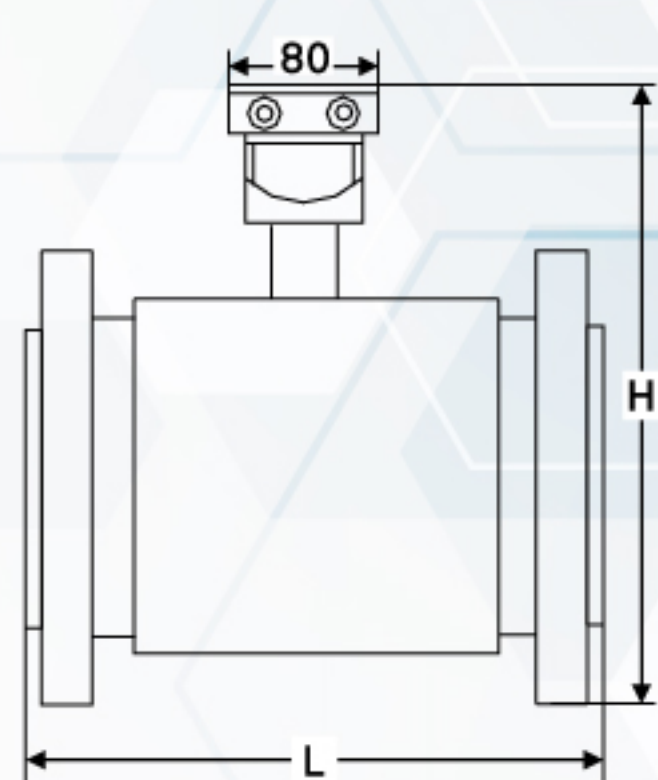
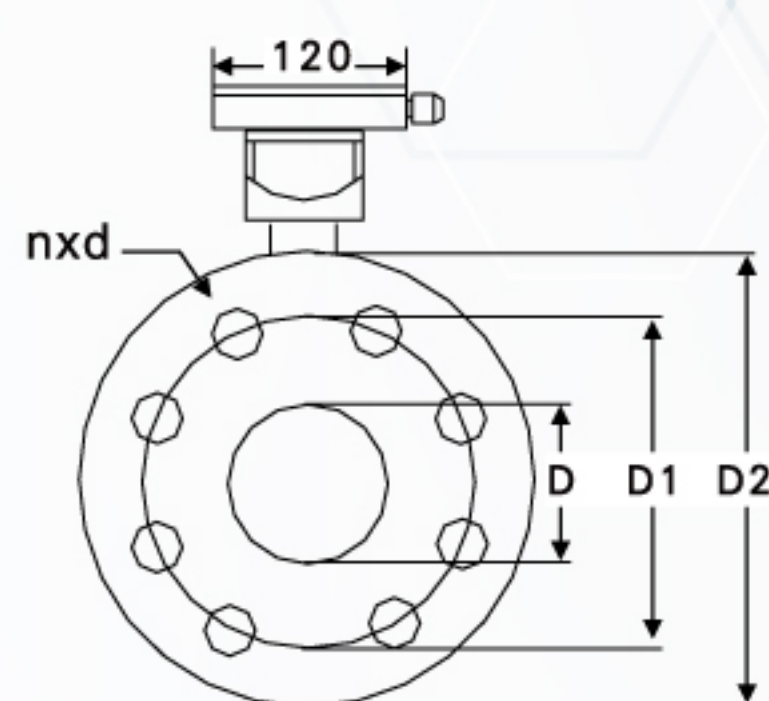
- The pipe shall be full of water while operating.



OPTIONAL FEATURES

- Process connection Flange:
DIN, ANSI, JIS, & other standards upon requirement
- Lining
 - ☐ CR (Neoprene). $\leq 65^\circ\text{C}$
 - ☐ PTFE..... $\leq 120^\circ\text{C}$
 - ☐ Ceramic..... $\leq 315^\circ\text{C}$
- Electrodes
 - ☐ SS316L:
 - Industrial consumption
 - Service water
 - Domestic wastewater
 - Fluids turbidity < 30 NTU
 - ☐ HC:
 - Corrosive liquid

DIMENSIONS Unit:mm



Unit:mm

a	161
b	40
c	87.2
d	120
e	155
f	241
g	95.2
h	257

Approx Weight 1.9kg

TECHNICAL DATA

Diameter	DN50(2")~DN800(32")
Measuring principle	Faradays Law
Flow range	0.3 m/s ~ 10 m/s
Accuracy	±0.2%FS
Operating pressure	4.0Mpa(DN15~DN80) 1.6Mpa(DN100~DN150) 1.0Mpa(DN200~DN800)
Applications	Raw water, clean water, sewage water, fluids conductivity≥5μs/cm
Digital output	RS-485 (Modbus RTU), Pulse (0.001L~1.0m3/p)
Analogue output	4-20mA (load <750Ω) error : 0.1%±10μA
Power supply	AC power 110~240VAC(-15% / +10%), 48~63 Hz
Power dissipation	Lower than 20W
Ambient temperature	-20°C ~ 60°C
Ambient humidity	5% ~ 90%
Body material	Carbon Steel Stainless Steel
Connections	Flange (DIN, ANSI, JIS, & other standards upon requirement)
Communications distance	3m (Standard distance from converter to sensor)
Lining material	CR, PTFE, Ceramic (Optional)
Electrode	SUS316L, HC (Optional)
Enclosure rating	Sensor IP 68 Converter IP 65

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