

ISOMAG ™

THE FRIENDLY MAG METER

SENSOR

MS 600

THE SMALLEST



SENSOR FOR ELECTROMAGNETIC FLOWMETER: "LIGHT" VERSION,
COMPLETELY IN POLYPROPYLENE

ISOIL 
INDUSTRIA

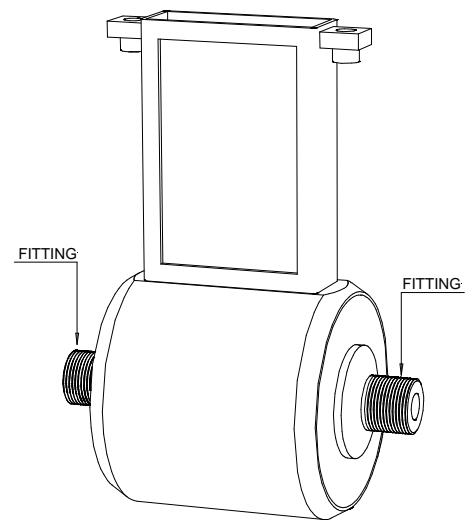
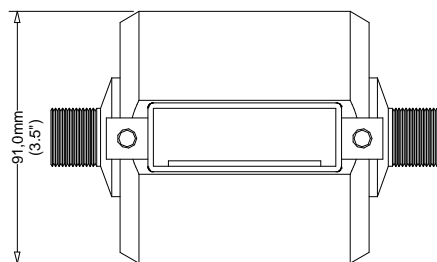
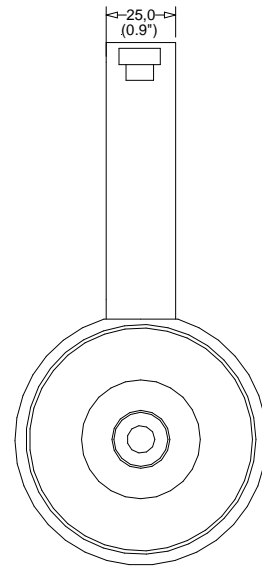
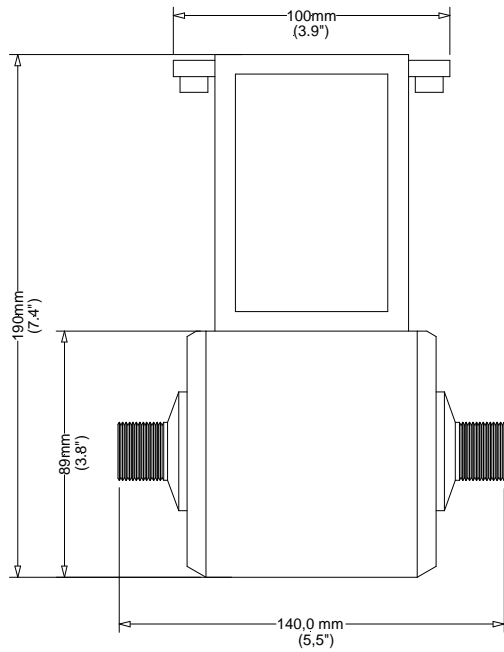
The solutions that count

The manufacturer only guarantees the English text.
Available on our web site: www.isoil.com

TECHNICAL DATA

Body material	<input type="checkbox"/> Polypropylene
Nominal Diameter	<input type="checkbox"/> DN 3 ÷ 20
Nominal Pressure	<input type="checkbox"/> PN 16/40
Connections	<input type="checkbox"/> Threaded UNI 338 <input type="checkbox"/> Threaded NTP <input type="checkbox"/> Other on request
Vacuum resistance	<input type="checkbox"/> 10 Kpa absolute at 60 °C
Connections material	<input type="checkbox"/> Polypropylene
Liquid temperature	<input type="checkbox"/> - 0°C ÷ 60°C
Lining material	<input type="checkbox"/> PTFE
Gasket material	<input type="checkbox"/> FPM <input type="checkbox"/> EPDM
Electrodes material	<input type="checkbox"/> SS AISI 316L <input type="checkbox"/> Hastelloy C <input type="checkbox"/> Platinum – rhodium <input type="checkbox"/> Tantalum <input type="checkbox"/> Other on request
Version/Protection degree	<input type="checkbox"/> Compact – IP 67 <input type="checkbox"/> Separate (max 20m) – IP 68 <input type="checkbox"/> Separate (max 500m) with pre-amp IP 67 (IP 68 optional)
Accuracy/Repeatability	<input type="checkbox"/> See table below

OVERALL DIMENSIONS



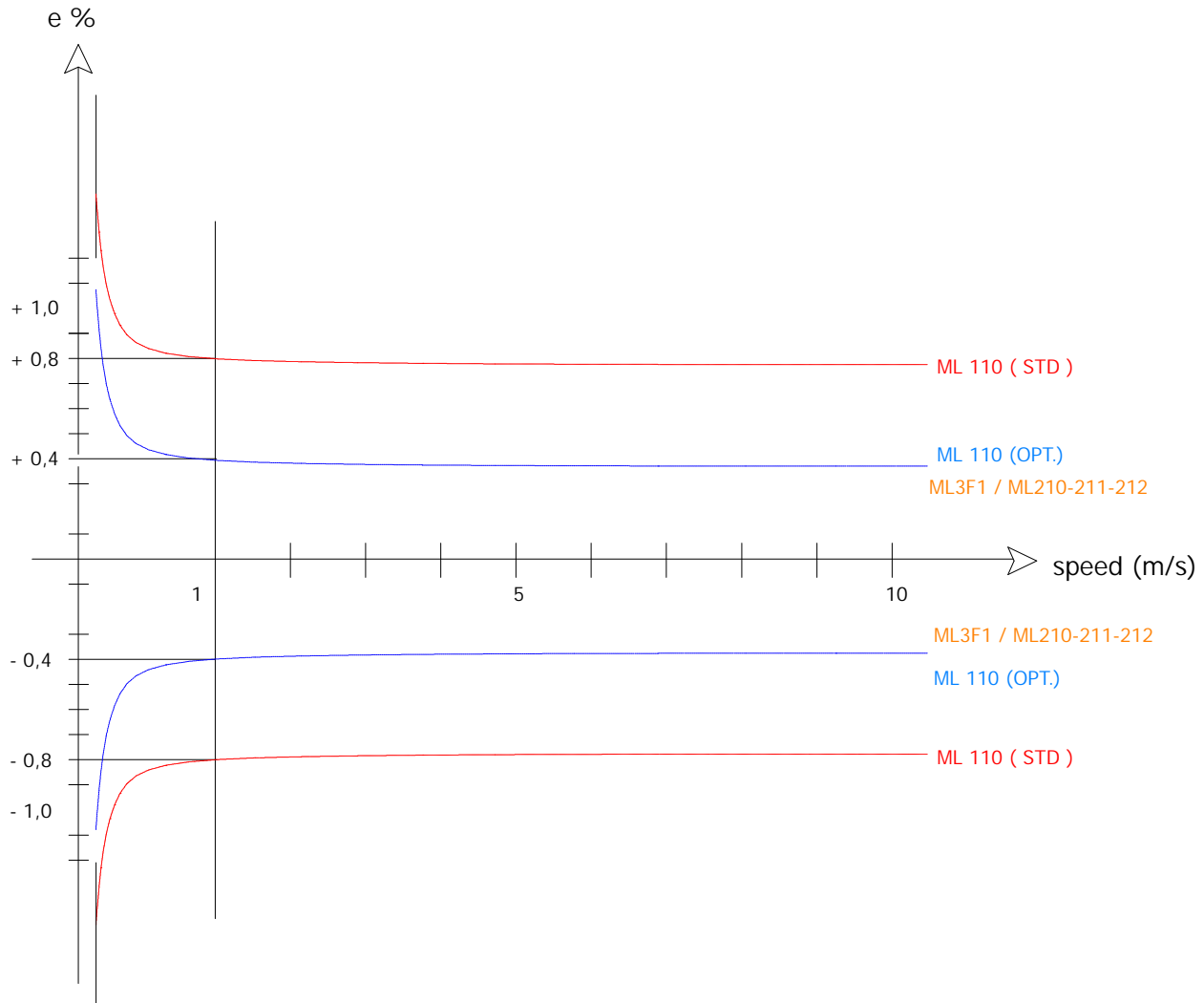
FITTINGS GAS/NPT

DIMENSIONS mm (inches)	DN				
	3 (1/8")	6 (1/4)	10 (3/8)	15 (1/2")	20 (3/4")
FITTINGS	1/4"	3/8"	1/2"	3/4"	1"

ACCURACY TABLE

- Reference conditions

- Water temperature: 20°C
- Ambient temperature: 25 °C
- Test time: > 60 sec.
- Converter warm-up: > 60'
- Constant flow rate during the test
- Pressure : 50 Kpa
- liquid speed > 1m/s



REPEATABILITY:

- ML 210-211-212 / ML3F1 = +/- 0,1%
- ML 110 = +/- 0,2%

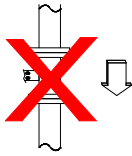
NOTE :

- Between 0,02 and 0,4 m/s the accuracy becomes TWICE the accuracy declared on the above diagram
- Between 0,4 and 1,0 m/s the accuracy becomes 1,5 times the accuracy declared on the above diagram

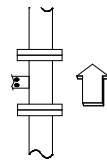
INSTALLATION RECCOMANDATIONS

AVOID

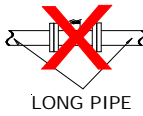
RECOMMENDED



For vertical installations with descending flow direction contact the manufacturer



In vertical installations an ascending flow is preferable



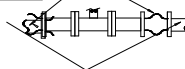
LONG PIPE



Avoid the installation of the sensor in a long pipe line, without any support for the sensor itself

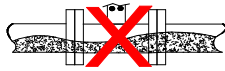


ANTI VIBRATION JOINTS

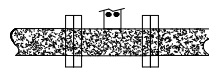


LONG PIPE

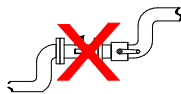
For installations in long pipe lines, please use anti vibration joints



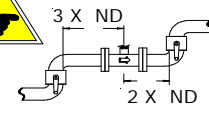
Avoid the functioning with partially empty pipe



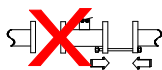
During the functioning the pipe must be either completely full of liquid or completely empty



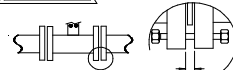
Avoid the installation near bends or hydraulic accessories



Install the sensor away from bends and hydraulic accessories



Avoid closing flange and couter flange by using the nuts closing for

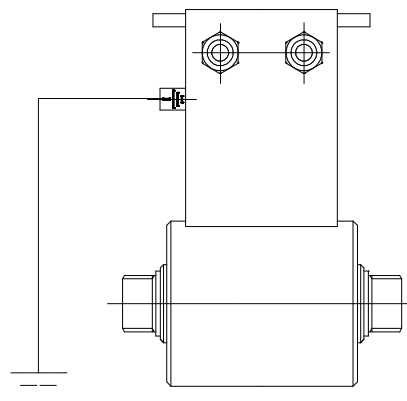


GASKET THICKNESS + 4mm

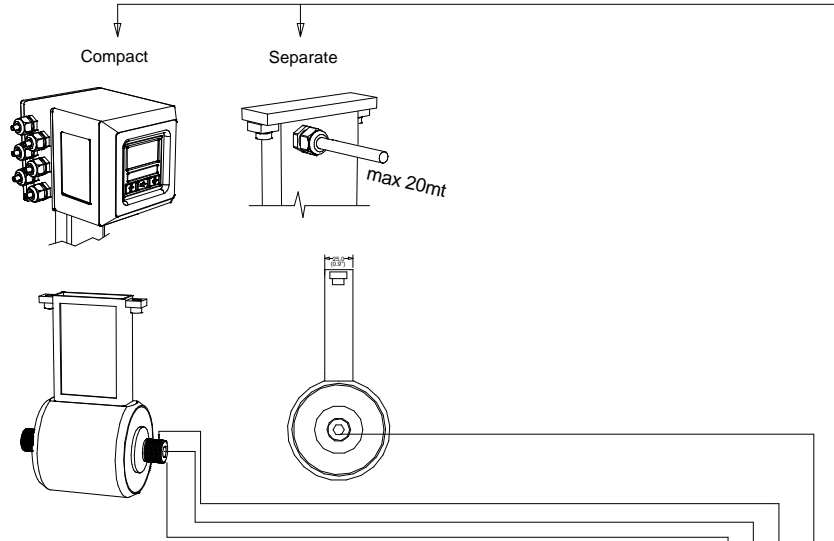
Before tightening the nuts close pipe and sensor flanges as much as possible

SENSOR GROUNDING

For the correct operation of the meter it is **NECESSARY** that sensor and liquid are equipotential, so **ALWAYS** connect sensor and converter to the ground.



HOW TO ORDER



MS 600	Nominal Diameter - Lining - Measuring range
P03	ND3 (1/8 "), PP lining, measuring range 0.. 10 / 0...250 l/h
P06	ND6 (1/4 "), PP lining, measuring range 0...40/0...1000 l/h
P10	ND10 (3/8 "), PP lining, measuring range 0..120/0...3000 l/h
P15	ND15 (1/2 "), PP lining, measuring range 0.. 240/0...6000 l/h
P20	ND20 (3/4 "), PP lining, measuring range 0.. 500/0...12500 l/h
	Gasket material (internal tightness)
1	O-Ring : FPM
2	O-Ring : EPDM
9	O-Ring : other O-Ring
	Process connection type
A	UNI 338
B	NPT
Z	Other fittings
	Number and electrodes material
2	n. 4 (2 measure + 2 for ground) electrodes in AISI 316L
4	n. 4 (2 measure + 2 for ground) electrodes in Hastelloy C
5	n. 4 (2 measure + 2 for ground) electrodes in Titanium
6	n. 4 (2 measure + 2 for ground) electrodes in Tantalum
7	n. 4 (2 measure +21 for ground) electrodes in Platinum/Rhodio
0	other
	Execution - Protection rate
A	Compact execution, IP67 protection rate, liquid maximum temperature 60 °C
B	Separate execution "C", maximum length CABLE C018 = 20 m, liquid maximum temperature 60 °C, protection rate IP68

MS 600 P20 1 A 1 A

EXAMPLE OF ORDER CODE

In accordance with a continuous evolution of the Product, the company reserves the right to modify without warning the information contained in this document