

Warranty conditions are available on this website: <u>www.isomag.eu</u> only in English version

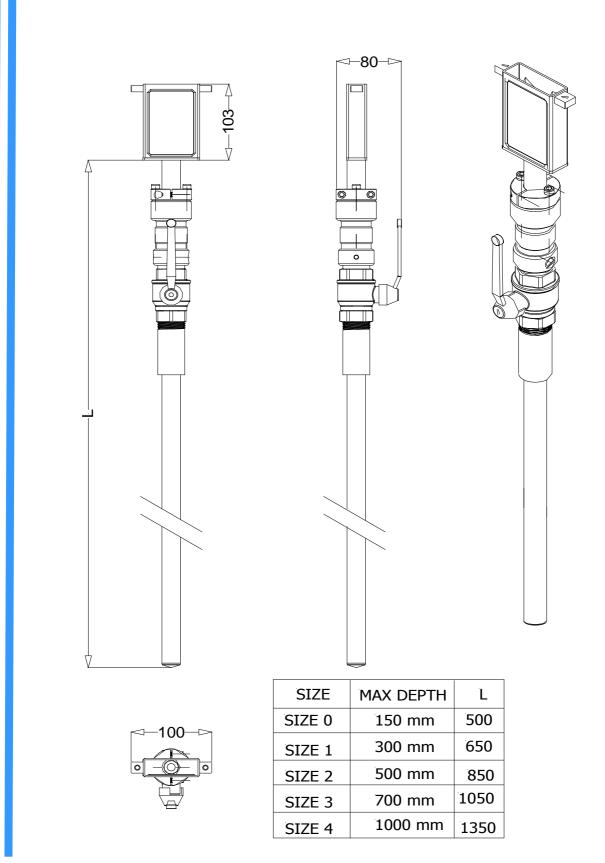


ТΜ

TECHNICAL DATA

Body material	Stainless steel AISI 304 or 316 (optional)
	Size 0 max insertion deep 150 mm
	Size 1 max insertion deep 300 mm
Size for pipe line Ø	Size 2 max insertion deep 500 mm
Size for pipe line ø	Size 3 max insertion deep 700 mm
	Size 4 max insertion deep 1000 mm
	Other on request
Nominal pressure	□ 2500 kPa
Process connection	Threaded end (with exclusion ball valve)
Process connection	Other on request
Liquid tomporature	-20 °C ÷ 100 °C compact version
Liquid temperature	-20 °C ÷ 130 separate version
Lining material	D PTFE
Gasket material	FPM (O-ring)
Electrode material	Stainless steel AISI 316L
	Other on request
	Compact version – IP 67 (OPT. IP 68)
Version – protection rating	Separate version (max 20m) – IP 68
Version – protection rating	Separate version (max 500 m), with preamplifier – IP 67
	(OPT. IP 68)
Optional	Pressure sensor
Accuracy	See table below

OVERALL DIMENSIONS



8

Xmax=140mm

Ò

Ś

_____1/8D

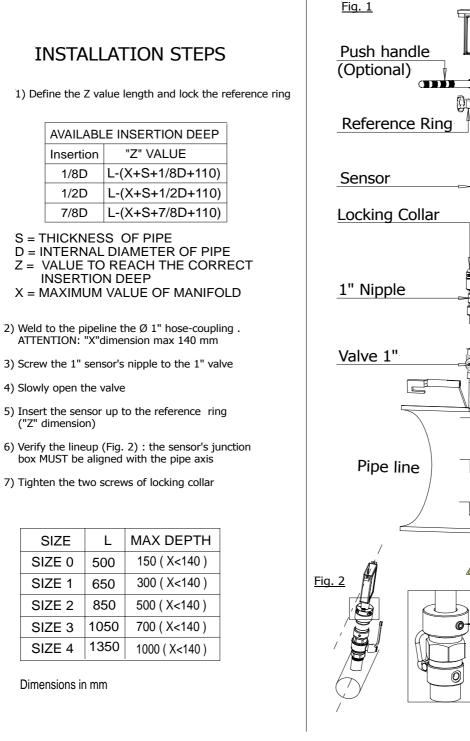
_____1/2D

J 7/8D

Fix side screwes

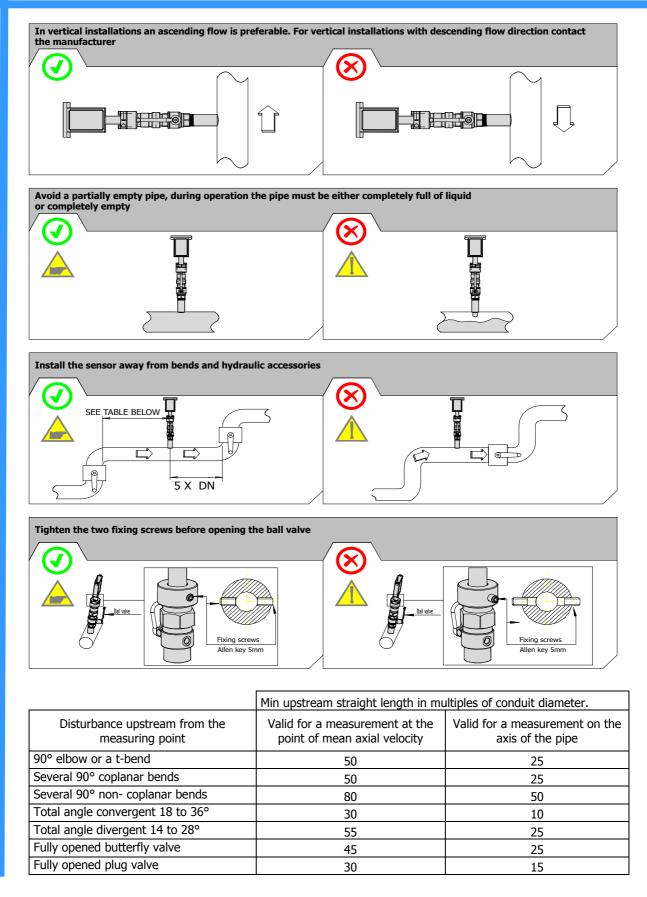
allen key: 5mm

INSTALLATION



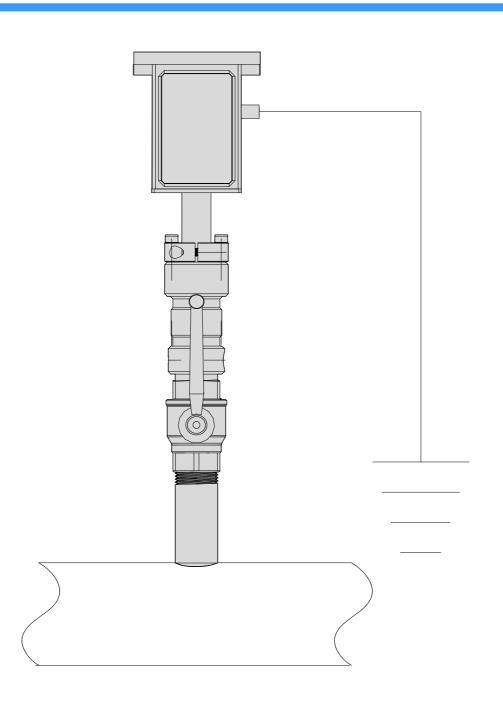
SAFETY WARNING : DON'T REMOVE OR MODIFY THE LOCKING CHAIN

INSTALLATION RECOMMENDATIONS



NOTE: According to data from UNI1072700_1998

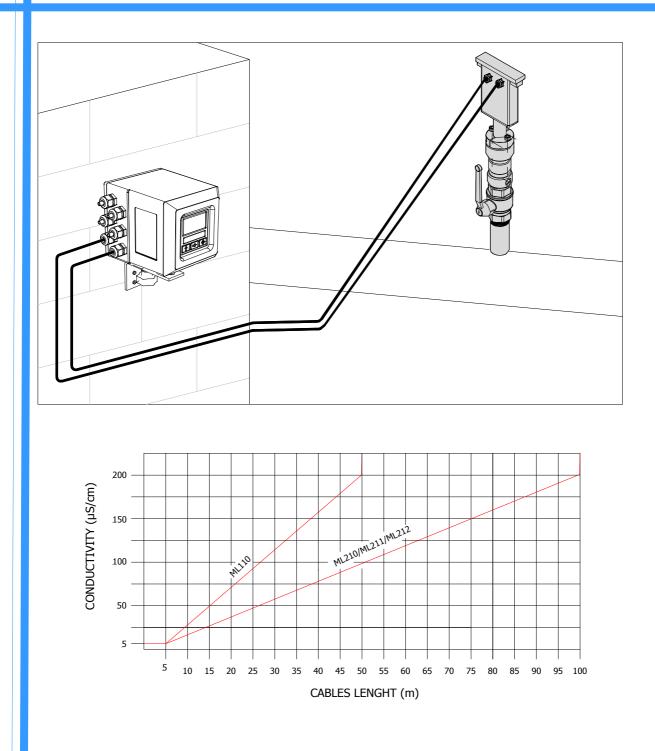
SENSOR GROUNDING



For the correct operation of the meter the sensor and liquid must be equipotential. ALWAYS connect sensor and converter to the ground.

For grounding with a cathodic protection pipe, please contact the manufacturer.

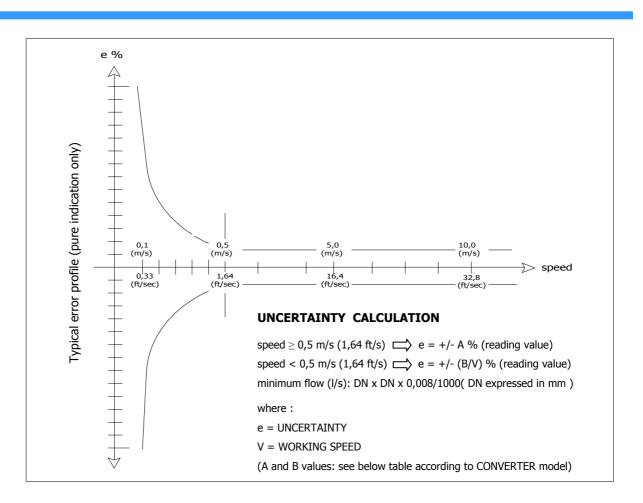
SEPARATE VERSION



Notes:

- It is recommended to install the connection cables away from, or protect against sources of electromagnetic noise.
- The minimum conductivity of the liquid medium to ensure correct functionality of the empty pipe detection is 20 μS/cm

ACCURACY TABLE



ALL CONVERTER

Α	B (m/s)	B (ft/s)
2	1	3,28

Reference conditions :

- Constant flow rate during the test
- □ Pressure: >30 Kpa
- □ Flow condition : fully developed flow profile
- □ Zero stability +/- 0,005 %

PROFILING WITH ISOFLOW PROFILER

Flow Profiler is an application designated to calculate the value of the correction coefficients Ki and Kp when the flow profile in <u>not fully developed</u>. This is achieved by measuring the flow velocity at different insertion depths along pipe diameter.

FUNCTIONING

Main page

1501	MAG INSERTION	
ipe diameter (D 500 🏮) Probe diameter (d) mm 23 mm	Number of points
Type of point sp	acing:	Load saved
 Automatic 	The point spacing will be automatically calculated by the	profile
🔿 Manual	program	≥ Insert new profile
		· · · · · · · · · · · · · · · · · · ·

At program start-up appairs the following window appears that allows the input of the following base parameters used in the profiling computation:

- Diameter of the pipe in which the sensor probe is inserted
- Diameter of the sensor probe (this is usually 23 mm)
- Number of points in which the flow velocity is measured
- Type of point spacing that is correlated to the probe insertion depth at which measures are taken.

Possible choices for the point spacing parameter are:

- Automatic: the point spacing will be automatically calculated by the program
- Manual: the insertion depth of every point will be inserted by the user.

For the program to operate correctly it is necessary to insert at least one point on the pipe axis and to insert the same number of points above and below the center line. The points must be inserted in the insertion depth order.

The buttons on the right are used to:

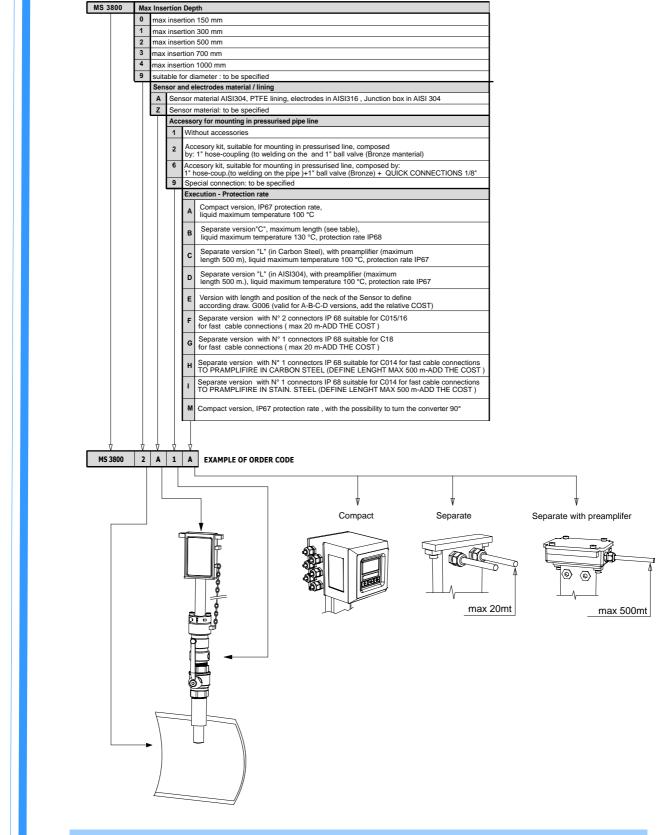


Load a profile preaviously saved by Profiler program from a text file. The successive window will be automatically opened and filled with the saved data. Open the form to insert a new profile.

Change the diameter of the insertion sensor probe.

For more details consult the operating manual.

HOW TO ORDER



The manufacturer reserves the right to make design improvements without notice.

Isoil Industria spa Head office 20092 Cinisello Balsamo (MI) Italy 27, via Flii Gracchi Phone +39/0266027.1 Fax +39/026123202 Email: sales@isoil.it Web: www.isoil.com

Production/stock 35044 Montagnana – PD Via Piemonte, n° 2

