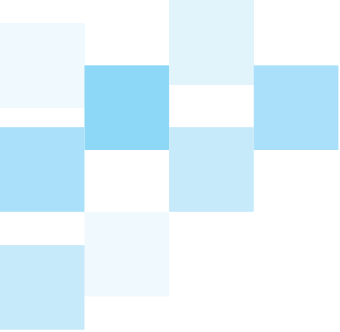




# ISOMAG

*The friendly magmeter*

## DATA SHEET

### MS 1000



**ISOIL**   
I N D U S T R I A

# INDEX

|                                             |    |
|---------------------------------------------|----|
| TECHNICAL DATA                              | 2  |
| NOTES FOR PED DIRECTIVE FOR SENSOR          | 3  |
| OVERALL DIMENSIONS                          | 4  |
| SENSOR VERSIONS/JUNCTION BOX                | 5  |
| SEPARATE VERSION                            | 6  |
| INSTALLATION RECOMMENDATIONS                | 7  |
| RECOMMENDED INSTALLATION PROCEDURE          | 8  |
| SENSOR GROUNDING                            | 9  |
| PRESSURE LOSS CALCULATION (CONES 8° ANGLES) | 10 |
| HOW TO ORDER                                | 11 |

## TECHNICAL DATA

### OVERALL FEATURES

|                             |                                                            |
|-----------------------------|------------------------------------------------------------|
| <b>Nominal diameter</b>     | <input type="checkbox"/> DN 25 ÷ 400                       |
| <b>Minimum conductivity</b> | <input type="checkbox"/> 5 µS/cm                           |
| <b>Humidity Range</b>       | <input type="checkbox"/> 0÷100% (IP 67)                    |
| <b>Accuracy</b>             | <input type="checkbox"/> See relevant converter data sheet |
| <b>CE Certification</b>     | <input type="checkbox"/> Yes                               |

### STANDARD FEATURES

|                                                            |                                                                                                                                                                                                                                                         |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Body material</b>                                       | <input type="checkbox"/> Carbon steel painted                                                                                                                                                                                                           |
| <b>Nominal pressure</b>                                    | <input type="checkbox"/> 1600 kPa : all with PP and Ebonite lining<br><input type="checkbox"/> 4000 kPa : PTFE lining up to DN 150                                                                                                                      |
| <b>Process connection</b>                                  | <input type="checkbox"/> Wafer Type                                                                                                                                                                                                                     |
| <b>Version – protection rating</b>                         | <input type="checkbox"/> Compact IP67                                                                                                                                                                                                                   |
| <b>Body material</b>                                       | <input type="checkbox"/> Carbon Steel                                                                                                                                                                                                                   |
| <b>Lining material</b>                                     | <input type="checkbox"/> Polypropylene (max PN 16)<br><input type="checkbox"/> Ebonite (DN 200 – 400)<br><input type="checkbox"/> PTFE (DN 25 – 150)                                                                                                    |
| <b>Gasket material (ONLY for lining in Polypropylene )</b> | <input type="checkbox"/> FPM                                                                                                                                                                                                                            |
| <b>Liquid temperature</b>                                  | <input type="checkbox"/> 0°C ÷ 60°C with PP lining<br><input type="checkbox"/> -5°C ÷ 80°C with ebonite lining<br><input type="checkbox"/> -20°C ÷ 110°C with PTFE lining<br><input type="checkbox"/> -20°C ÷ 100°C with PTFE lining in compact version |
| <b>Vacuum resistance</b>                                   | <input type="checkbox"/> 20 Kpa (absolute) at 100 °C (60/80°C for PP/Ebonite)                                                                                                                                                                           |
| <b>Electrodes material</b>                                 | <input type="checkbox"/> Stainless steel AISI 316<br><input type="checkbox"/> Hastelloy C<br><input type="checkbox"/> Platinum-rhodium<br><input type="checkbox"/> Titanium<br><input type="checkbox"/> Tantalum                                        |

### OPTIONAL FEATURES

(CHECK FOR MORE DETAILS 'HOW TO ORDER' ON LAST PAGE)

|                                                            |                                                                                                                                                                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Body material</b>                                       | <input type="checkbox"/> Stainless steel AISI 304 or 316                                                                                                                                                                            |
| <b>Gasket material (ONLY for lining in Polypropylene )</b> | <input type="checkbox"/> EPDM                                                                                                                                                                                                       |
| <b>Lining material</b>                                     | <input type="checkbox"/> On request                                                                                                                                                                                                 |
| <b>Electrodes material</b>                                 | <input type="checkbox"/> On request                                                                                                                                                                                                 |
| <b>Version – protection rating</b>                         | <input type="checkbox"/> Separate version (max 20m) – IP 68<br><input type="checkbox"/> Separate version (max 500 m), with preamplifier – IP 67<br><input type="checkbox"/> Separate version (max 500 m), with preamplifier – IP 68 |

## NOTES FOR PED DIRECTIVE FOR SENSOR

Here below the tables of products subject to Directive Pressure Equipment Device 2014/68/UE (PED) implemented by legislative decree February 15, 2016, n. 26

The tables show which category of PED is applicable according to the water operating temperature (TAB A T <110 ° C TAB B T > = 110 ° C), sensor's DN and its nominal pressure.

### DN / PN CORRELATION TABLE AND PED DIRECTIVE

ONLY FOR FAMILY MS2500-MS1000 AND PN MAX 40 Bar

ONLY FOR METER WITH LINING IN PTFE

FOR METER FAMILY MS2500 TYPE FLANGE ONLY UNI EN1092 - P245GH  
OR ASTM A105

ONLY FOR METER FOR WATER WITH T. > 110°C

| DN  | PN - Nominal Pressure |    |           |    |
|-----|-----------------------|----|-----------|----|
|     | B                     | C  | D         | E  |
| 25  | USE PN 40             |    |           | 40 |
| 32  |                       |    |           | 40 |
| 40  |                       |    |           | 40 |
| 50  | USE PN 16             | 16 | USE PN 40 | 40 |
| 65  |                       | 16 |           | 40 |
| 80  |                       | 16 |           | 40 |
| 100 |                       | 16 |           | 40 |
| 125 |                       | 16 |           | 40 |
| 150 |                       | 16 |           | 40 |
| 200 | 10                    | 16 | 25        | 40 |
| 250 | 10                    | 16 | 25        | 40 |
| 300 | 10                    | 16 | 25        | 40 |
| 350 | 10                    | 16 | 25        | 40 |
| 400 | 10                    | 16 | 25        | 40 |
| 450 | 10                    | 16 | 25        | 40 |
| 500 | 10                    | 16 | 25        | 40 |

CONDITIONS TO SATISFY FOR T. > 110 ° C:

VAPOR PRESSURE p > 1.5 ATA

|                                         |  |
|-----------------------------------------|--|
| CAT I                                   |  |
| 32 > DN ≤ DN100 + PS * DN > 1000 ≤ 3500 |  |
| CAT II                                  |  |
| 100 > DN ≤ 250 + PS * DN > 3500 ≤ 5000  |  |
| CAT III                                 |  |
| DN > 250 + PS * DN > 5000               |  |

### MEANING OF TABLES CODE

|  |                |
|--|----------------|
|  | = OUT OF PED   |
|  | = CAT. I       |
|  | = CAT. II      |
|  | = CAT. III     |
|  | = USE DIFF. PN |

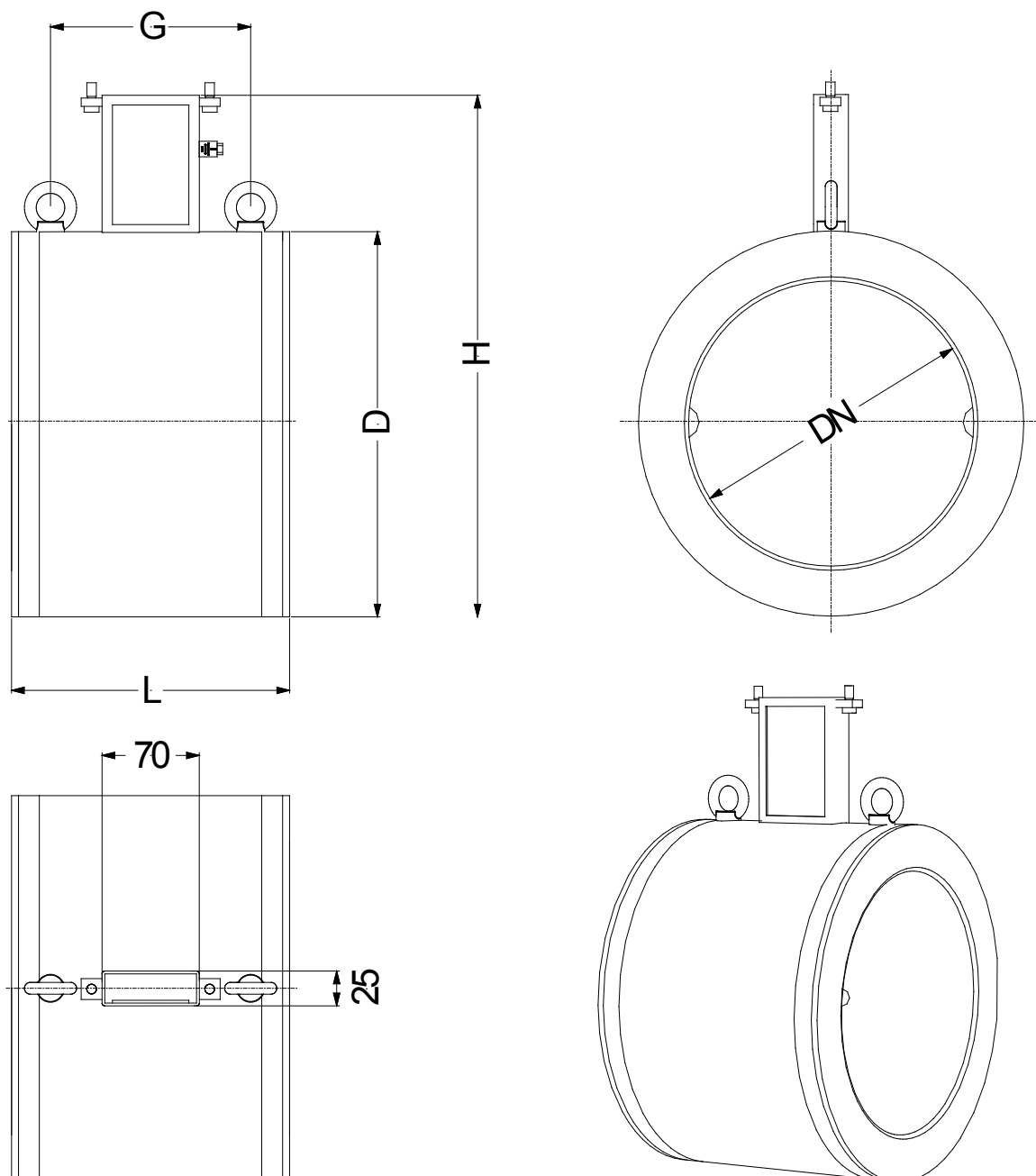
### DN / PN CORRELATION TABLE AND PED DIRECTIVE

ONLY FOR METER FOR WATER WITH T. < 110°C

| DN   | PN - Nominal Pressure |    |           |    |
|------|-----------------------|----|-----------|----|
|      | B                     | C  | D         | E  |
| 25   | USE PN 40             |    |           | 40 |
| 32   |                       |    |           | 40 |
| 40   |                       |    |           | 40 |
| 50   | USE PN 16             |    | USE PN 40 | 40 |
| 65   |                       |    |           | 40 |
| 80   |                       |    |           | 40 |
| 100  |                       |    |           | 40 |
| 125  |                       |    |           | 40 |
| 150  |                       |    |           | 40 |
| 200  | 10                    |    | 25        | 40 |
| 250  | 10                    | 16 | 25        | 40 |
| 300  | 10                    | 16 | 25        | 40 |
| 350  | 10                    | 16 | 25        | 40 |
| 400  | 10                    | 16 | 25        | 40 |
| 450  | 10                    | 16 | 25        | 40 |
| 500  | 10                    | 16 | 25        | 40 |
| 600  | 10                    | 16 | 25        | 40 |
| 700  | 10                    | 16 | 25        | 40 |
| 800  | 10                    | 16 | 25        | 40 |
| 1000 | 10                    | 16 | 25        | 40 |
| 1200 | 10                    | 16 | 25        | 40 |
| 1300 | 10                    | 16 | 25        | 40 |
| 1400 | 10                    | 16 | 25        | 40 |
| 1500 | 10                    | 16 | 25        | 40 |
| 1600 | 10                    | 16 | 25        | 40 |
| 1700 | 10                    | 16 | 25        | 40 |
| 1800 | 10                    | 16 | 25        | 40 |
| 2000 | 10                    | 16 | 25        | 40 |
| 2400 | 10                    | 16 | 25        | 40 |

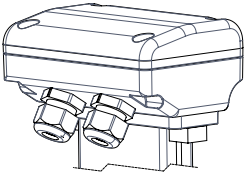
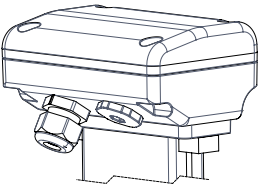
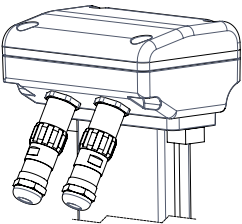
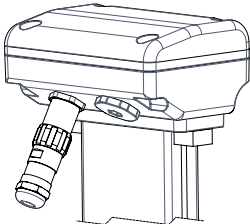
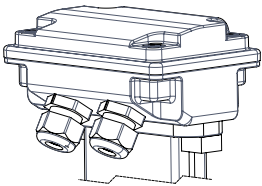
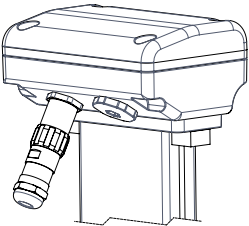
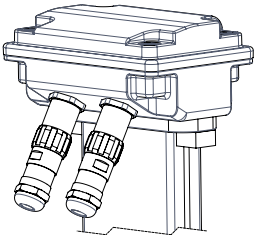
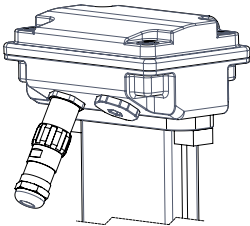
For products that falls in category I, is valid the declaration of conformity available on the following page; the products in Category II and III are supplied with a specific declaration of conformity for each instrument

## OVERALL DIMENSIONS



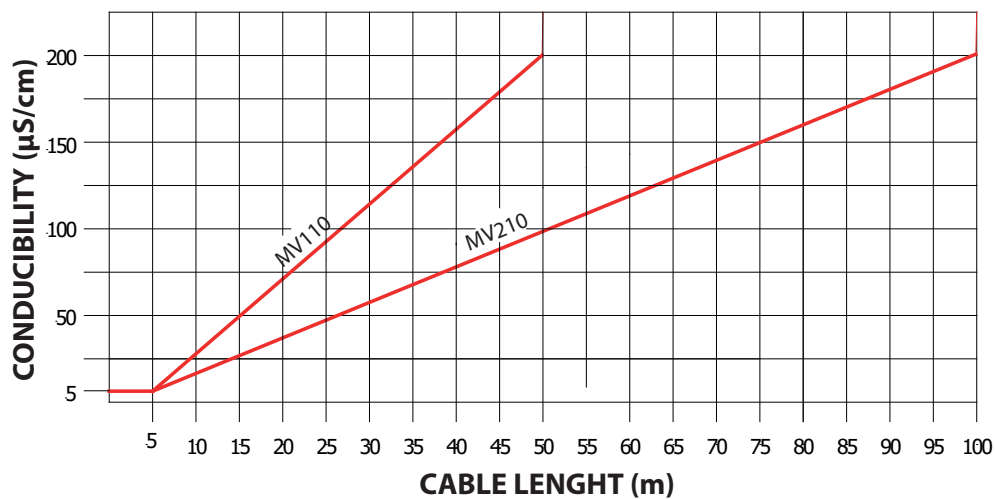
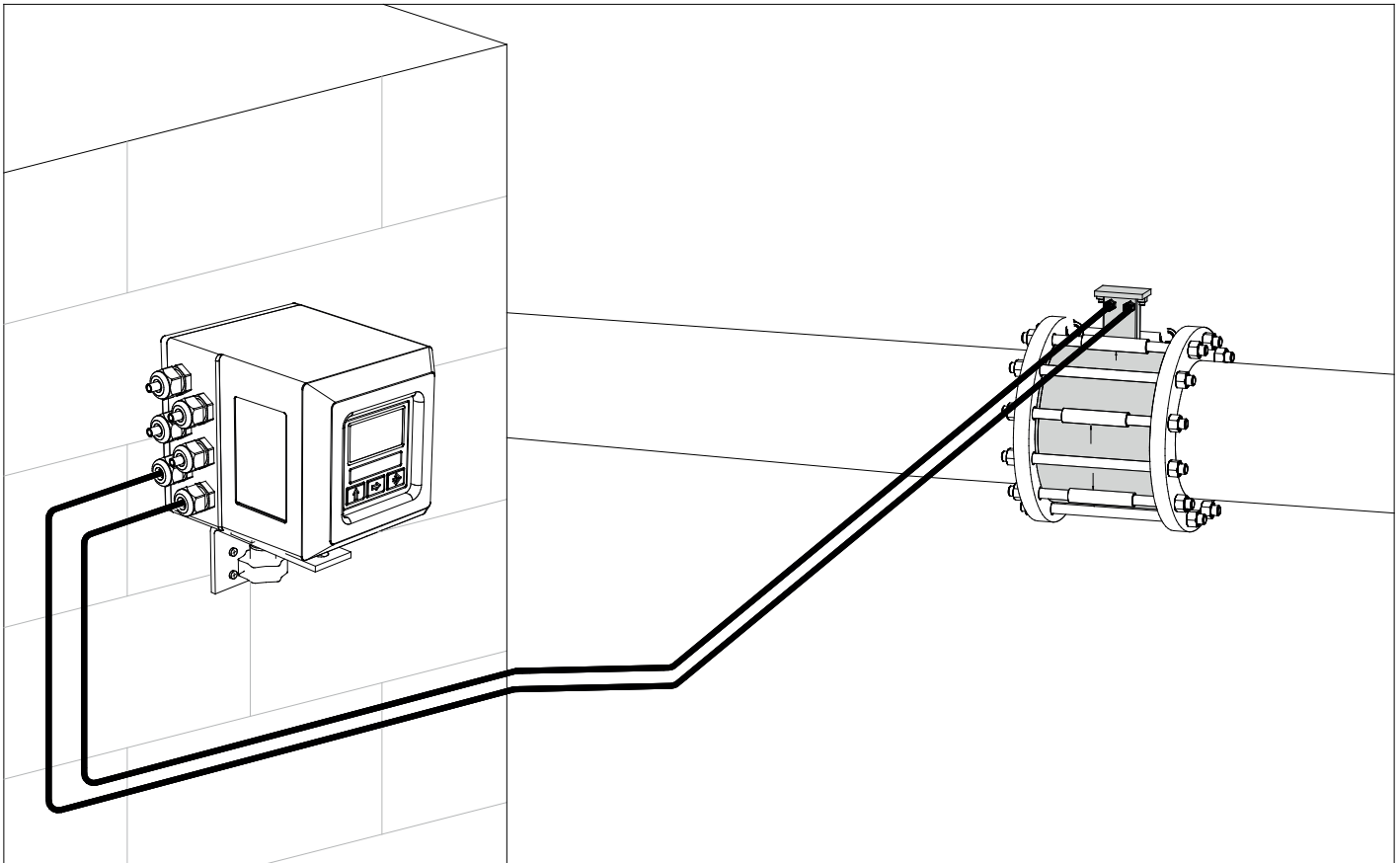
| mm<br>(inches)       | DN                                                                 |                |                |               |                |               |               |                 |                |                |                                   |                |                |                |
|----------------------|--------------------------------------------------------------------|----------------|----------------|---------------|----------------|---------------|---------------|-----------------|----------------|----------------|-----------------------------------|----------------|----------------|----------------|
|                      | 25<br>(1")                                                         | 32<br>(1" 1/4) | 40<br>(1" 1/2) | 50<br>(2")    | 65<br>(2" 1/2) | 80<br>(3")    | 100<br>(4")   | 125<br>(5")     | 150<br>(6")    | 200 (8")       | 250<br>(10")                      | 300<br>(12")   | 350<br>(14")   | 400<br>(16")   |
| L                    | +0                                                                 | +0             | +0             | +0            | +0             | +0            | +0            | +0              | +0             | +0             | +0                                | +0             | +0             | +0             |
|                      | -3<br>(-0.12)                                                      | -3<br>(-0.12)  | -3<br>(-0.12)  | -3<br>(-0.12) | -3<br>(-0.12)  | -3<br>(-0.12) | -3<br>(-0.12) | -3<br>(-0.12)   | -3<br>(-0.12)  | -3<br>(-0.12)  | -5<br>(-0.20)                     | -5<br>(-0.20)  | -5<br>(-0.20)  | -5<br>(-0.20)  |
|                      | 100<br>(3.94)                                                      | 100<br>(3.94)  | 100<br>(3.94)  | 100<br>(3.94) | 150<br>(5.90)  | 150<br>(5.90) | 150<br>(5.90) | 180<br>(7.09)   | 180<br>(7.09)  | 200<br>(7.87)  | 250<br>(9.84)                     | 300<br>(11.81) | 350<br>(13.78) | 400<br>(15.75) |
| H                    | 147<br>(5.79)                                                      | 153<br>(6.02)  | 161<br>(6.34)  | 177<br>(6.97) | 199<br>(7.83)  | 209<br>(8.23) | 239<br>(9.40) | 263<br>(10.35)  | 291<br>(11.46) | 362<br>(14.25) | 417<br>(16.42)                    | 467<br>(18.39) | 527<br>(20.75) | 579<br>(22.80) |
| D                    | 62<br>(2.20)                                                       | 67<br>(2.44)   | 78<br>(2.76)   | 92<br>(3.39)  | 108<br>(4.25)  | 118<br>(4.65) | 148<br>(5.83) | 172<br>(6.77)   | 200<br>(7.87)  | 271<br>(10.67) | 326<br>(12.83)                    | 376<br>(14.80) | 436<br>(17.17) | 488<br>(19.21) |
| G                    | -                                                                  | -              | -              | -             | -              | -             | -             | -               | -              | 144<br>(5.67)  | 194<br>(7.64)                     | 244<br>(9.60)  | 294<br>(11.57) | 344<br>(13.54) |
| Weight kg<br>(lbs)   | 1.2<br>(2.64)                                                      | 1.6<br>(3.52)  | 1.8<br>(3.96)  | 2<br>(4.4)    | 3.6<br>(7.92)  | 3.8<br>(8.36) | 5<br>(11)     | 7.8<br>(17.16)  | 8.2<br>(18)    | 18.2<br>(40)   | 24<br>(53)                        | 27<br>(59)     | 32<br>(70)     | 39<br>(86)     |
| Flanges<br>available | PTFE-EBANITE: PN10, PN16, PN25, PN40, ANSI150, ANSI,300<br>ANSI150 |                |                |               |                |               |               | PP: PN10, PN16, |                |                | PTFE-EBANITE: PN10, PN16, ANSI150 |                |                |                |

## SENSOR VERSIONS/JUNCTION BOX

|                                  | 1                                                                                 | 2                                                                                 | 3                                                                                  | 4                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>A</b><br>PAINTED<br>ALUMINIUM |  |  |  |  |
| <b>B</b><br>AISI 304             |  |  |  |  |

| PRICE LIST OPTIONS | JUNCTION BOX TYPE<br>(surface finish)                            |
|--------------------|------------------------------------------------------------------|
| A                  | Without junction box, converter connected on the connections box |
| B                  | A-1<br>A-2 only for ML110                                        |
| G                  | A-4                                                              |
| F                  | A-3                                                              |
| N                  | A-2 with preamplifier                                            |
| Q                  | A-4 with preamplifier                                            |
| U                  | B-1 (raw)<br>B-2 only for ML110 (raw)                            |
| S                  | B-4 (raw)                                                        |
| T                  | B-3 (raw)                                                        |
| P                  | B-2 with preamplifier (raw)                                      |
| R                  | B-4 with preamplifier (raw)                                      |
| K                  | B-1 (polished)<br>B-2 only for ML110 (polished)                  |
| Y                  | B-4 (polished)                                                   |
| W                  | B-3 (polished)                                                   |
| V                  | B-2 with preamplifier (polished)                                 |
| J                  | B-4 with preamplifier (polished)                                 |

## SEPARATE VERSION

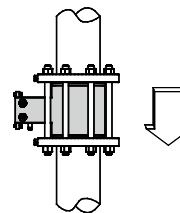
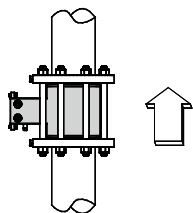


## Notes:

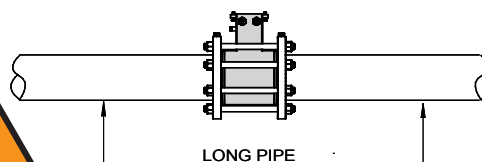
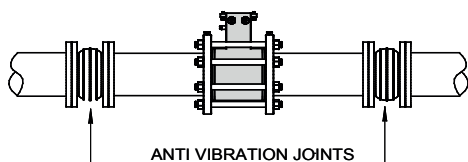
- ☐ It is recommended to install the connection cables away from, or protect against sources of electromagnetic noise.
- ☐ The minimum conductivity of the liquid medium to ensure correct functionality of the empty pipe detection is 20  $\mu\text{S/cm}$

# INSTALLATION RECOMMENDATIONS

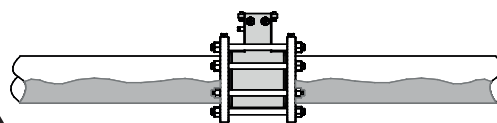
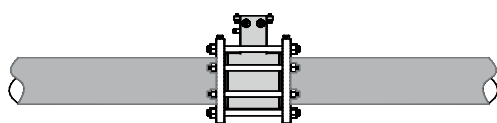
In vertical installations an ascending flow is preferable. For vertical installations with descending flow direction contact the manufacturer



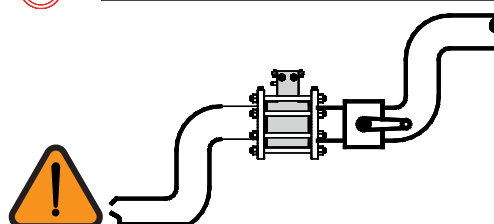
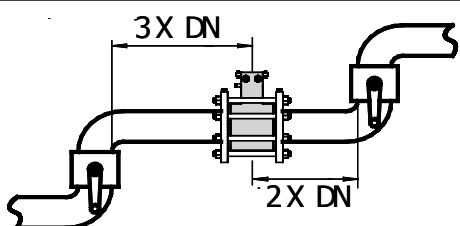
For installations in long pipe lines, please use anti vibration joints



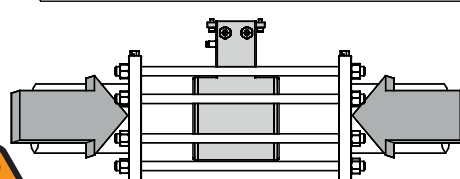
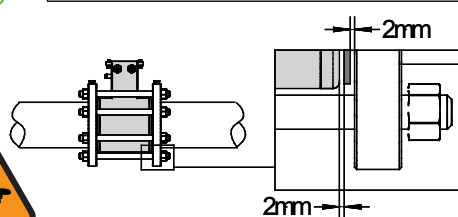
Avoid a partially empty pipe, during operation the pipe must be either completely full of liquid or completely empty



Install the sensor away from bends and hydraulic accessories



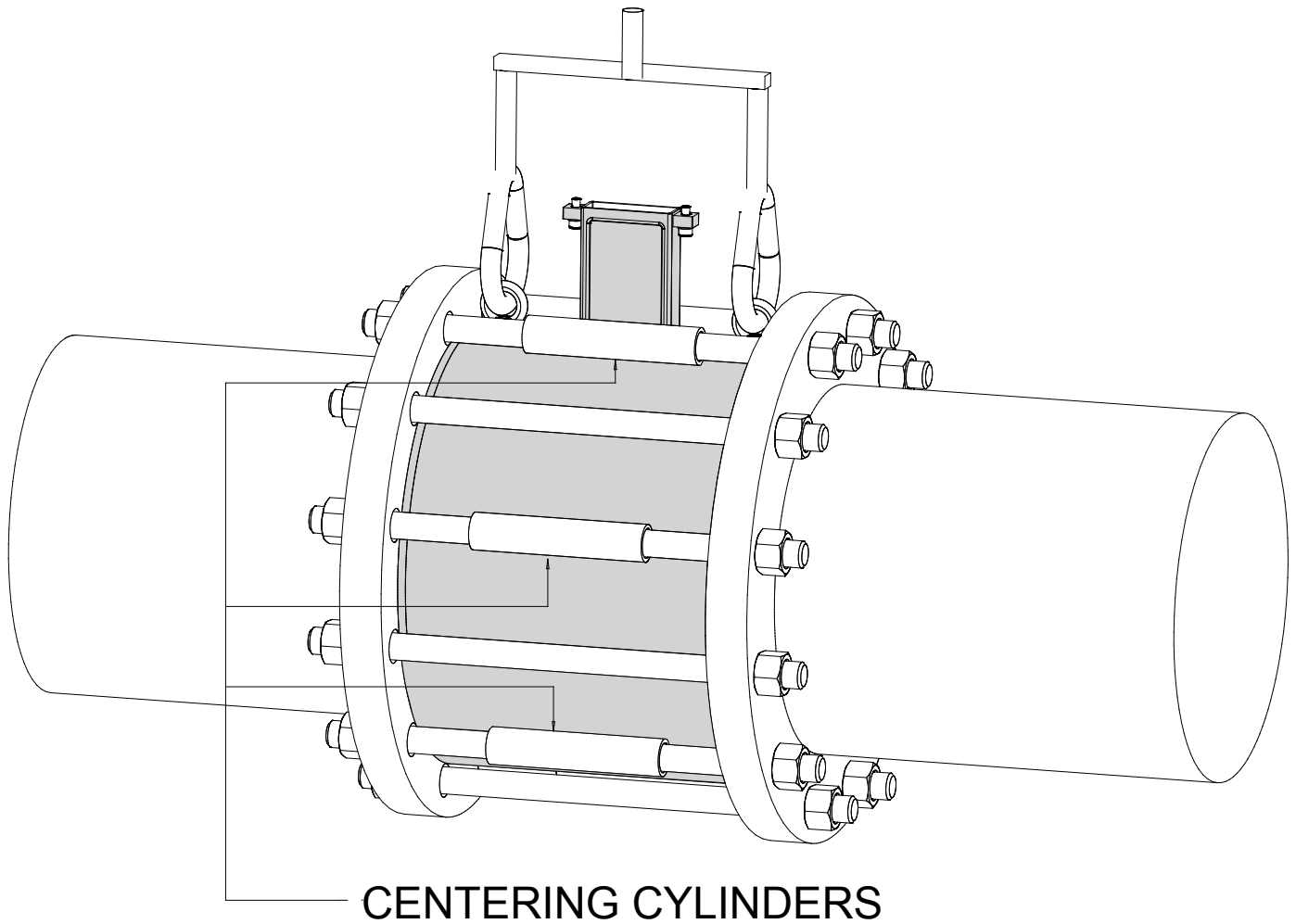
Avoid positioning flanges by tightening the nuts.



## RECOMMENDED INSTALLATION PROCEDURE

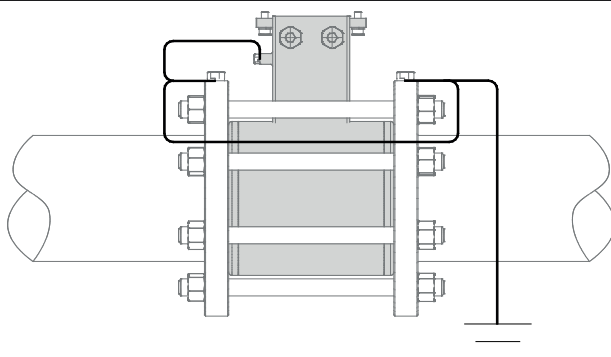
Sensors weighing more than 20Kg are equipped of appropriate eyebolts to lift the sensor according to the drawing above.

**The eyebolts support ONLY the weight of the meter.**

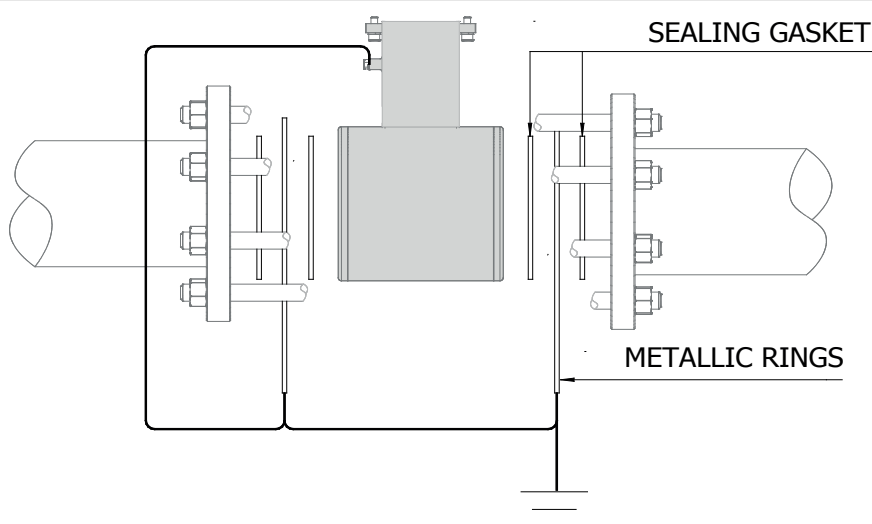


# SENSOR GROUNDING

## METALLIC PIPE



## INSULATED PIPE



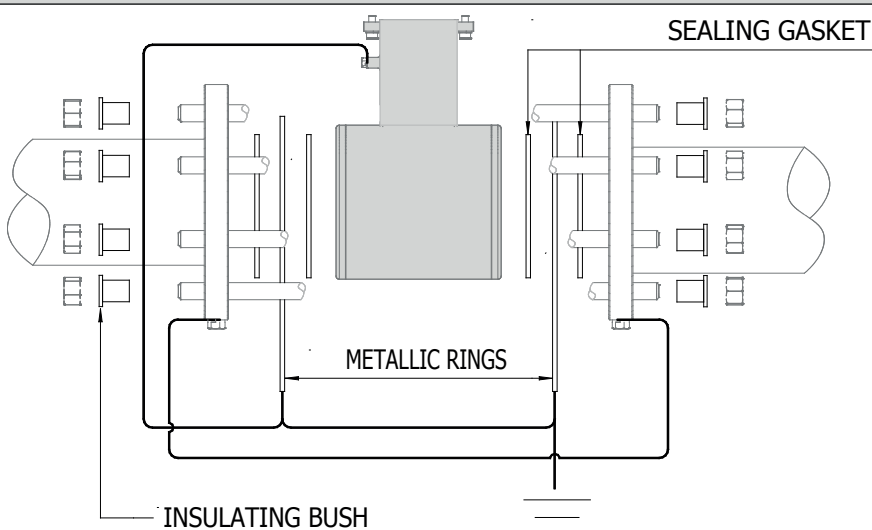
If the sensor has to be installed in a pipe made of an insulating material, the following are necessary:

Inserting two metallic rings between the sensor flanges and the pipe line counter flanges

or:

Using a sensor with the additional grounding electrode

## PIPE WITH CATHODIC PROTECTION

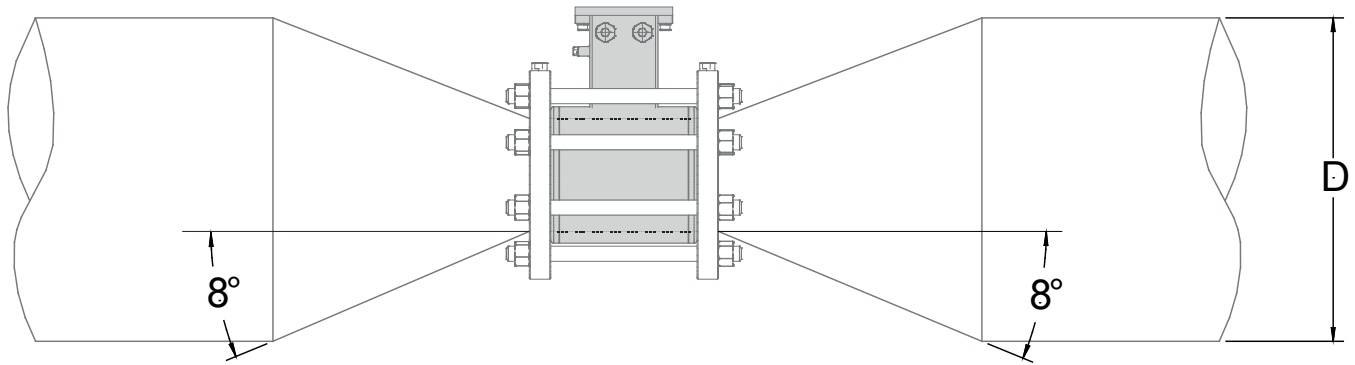


If the sensor has to be installed in the pipe with cathodic protection, the following are necessary:

using insulating bushes to isolate the bolts

Metallic grounding rings should be provided to ground the liquid using insulating gasket between the rings

## PRESSURE LOSS CALCULATION (CONES 8° ANGLES)



$$\Delta p = \left[ 0.10 + 0.20 \left( \left( \frac{d}{D} \right)^{-2} - 1 \right) \left( \frac{d}{D} \right)^4 \right] \left( \rho \frac{u^2}{2} \right)$$

### Were:

- $\Delta p$  = Pressure loss in [Pa]  
 $\rho$  = Fluid density [kg/m<sup>3</sup>] typical value  $\rho = 1000$  [kg/m<sup>3</sup>]  
 $d$  = sensor diameter [m]  
 $D$  = pipe diameter (greater than sensor diameter) [m]  
 $u$  = Mean flow velocity in sensor diameter [m/s]

| Calculation examples $\Delta p$ [mbar] |         |         |         |         |         |         |         |         |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| $\frac{d}{D} \backslash u$             | 1 [m/s] | 2 [m/s] | 3 [m/s] | 4 [m/s] | 5 [m/s] | 6 [m/s] | 7 [m/s] | 8 [m/s] |
| <b>0.5</b>                             | 1.1     | 4.3     | 9.6     | 17      | 26.6    | 38.3    | 52.1    | 68      |
| <b>0.6</b>                             | 0.9     | 3.6     | 8.2     | 14.6    | 22.7    | 32.7    | 44.6    | 58.2    |
| <b>0.7</b>                             | 0.8     | 3       | 6.8     | 12.2    | 19      | 27.4    | 37.2    | 48.6    |
| <b>0.8</b>                             | 0.6     | 2.5     | 5.7     | 10.1    | 15.7    | 22.7    | 30.9    | 40.3    |
| <b>0.9</b>                             | 0.5     | 2.1     | 4.8     | 8.6     | 13.4    | 19.3    | 26.3    | 34.3    |

### Notes:

- ☐  $\rho = 1000$  [kg/m<sup>3</sup>] as goodness approximation of water density in common use.
- ☐ Inner diameter of sensor is used for  $d$ , express in meters.
- ☐ Indeed pressure loss equation is dimensionally correct in [Pa]. The equation results in table are show in [mbar].

## HOW TO ORDER

| CODE<br>EXAMPLE                                                         |      | CODE/DESCRIPTION                                                                                  |
|-------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------|
| <b>Nominal Diameter / Lining / Liquid temperature / Measuring range</b> |      |                                                                                                   |
| T100                                                                    | P25  | DN25 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 17,6mc/h                    |
|                                                                         | T25  | DN25 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 17,6mc/h                 |
|                                                                         | P32  | DN32 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 28,8mc/h                    |
|                                                                         | T32  | DN32 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 28,8mc/h                 |
|                                                                         | P40  | DN40 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 45,2mc/h                    |
|                                                                         | T40  | DN40 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 45,2mc/h                 |
|                                                                         | P50  | DN50 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 70,6mc/h                    |
|                                                                         | T50  | DN50 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 70,6mc/h                 |
|                                                                         | P65  | DN65 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 118mc/h                     |
|                                                                         | T65  | DN65 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 118mc/h                  |
|                                                                         | P80  | DN80 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 180mc/h                     |
|                                                                         | T80  | DN80 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 180mc/h                  |
|                                                                         | P100 | DN100 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 282mc/h                    |
|                                                                         | T100 | DN100 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 282mc/h                 |
|                                                                         | P125 | DN125 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 440mc/h                    |
|                                                                         | T125 | DN125 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 440mc/h                 |
|                                                                         | P150 | DN150 / P.P. Lining / Max. Temp.: 0°... +60°C / Measuring range: 0 ... 636mc/h                    |
|                                                                         | T150 | DN150 / PTFE Lining / Max. Temp.: -20°... +110°C / Measuring range: 0 ... 636mc/h                 |
|                                                                         | E200 | DN200 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°... +80°C / Measuring range: 0 ... 1130mc/h |
|                                                                         | E250 | DN250 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°... +80°C / Measuring range: 0 ... 1766mc/h |
|                                                                         | E300 | DN300 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°... +80°C / Measuring range: 0 ... 2544mc/h |
|                                                                         | E350 | DN350 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°... +80°C / Measuring range: 0 ... 3462mc/h |
|                                                                         | E400 | DN400 / Ebonite (Hard Rubber) Lining / Max. Temp.: -5°... +80°C / Measuring range: 0 ... 4522mc/h |
| <b>Gasket material ( internal tightness - only PP lining)</b>           |      |                                                                                                   |
| 0                                                                       | 0    | No O-Ring ( ONLY FOR PTFE/EBANITE LINING )                                                        |
|                                                                         | 1    | O-Ring : FKM                                                                                      |
|                                                                         | 2    | O-Ring : Epdm                                                                                     |
|                                                                         | 9    | Gasket material: to be specified                                                                  |
| <b>Body material</b>                                                    |      |                                                                                                   |
| A                                                                       | A    | Body in Carbon Steel painted                                                                      |
|                                                                         | B    | Body in Stainless Steel (AISI304)                                                                 |
|                                                                         | C    | Body in Stainless Steel (AISI316)                                                                 |
|                                                                         | Z    | Body material: other                                                                              |
| <b>Number and electrodes material</b>                                   |      |                                                                                                   |
| 2                                                                       | 2    | n. 3 (2 measure + 1 for ground) electrodes in AISI316                                             |
|                                                                         | 4    | n. 3 (2 measure + 1 for ground) electrodes in Hastelloy C                                         |
|                                                                         | 5    | n. 3 (2 measure + 1 for ground) electrodes in Titanium                                            |
|                                                                         | 6    | n. 3 (2 measure + 1 for ground) electrodes in Tantalum; not available with Polypropylene/Rilsan   |
|                                                                         | 7    | n. 3 (2 measure + 1 for ground) electrodes in Platinum; not available with Polypropylene/Rilsan   |
|                                                                         | 0    | Electrode material: to be specified                                                               |

| Version / Protection rate |   |                                                                                                                      |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------|
| A                         | A | Compact execution, IP67 protection rate                                                                              |
|                           | B | Separate version - Material JB: Alluminium - IP68 - for Cable C014 + C015/16                                         |
|                           | F | Separate version - Material JB: Alluminium - IP68 - n.2 MIL connectors for Cable C015/016-CC/CS + CB                 |
|                           | N | Separate version - Material JB: Alluminium - IP67 - with Preamp for Cable C014 + C015/16                             |
|                           | L | Separate version - Material JB: Alluminium - IP68 - with Preamp - n.2 MIL connectors for Cable C015/016-CC/CS + CB   |
|                           | U | Separate version - Material JB: 304 RAW - IP68 for Cable C014 + C015/16                                              |
|                           | T | Separate version - Material JB: 304 RAW - IP68 - n.2 MIL connectors for Cable C015/016-CC/CS + CB                    |
|                           | P | Separate version - Material JB: 304 RAW - IP67 - with Preamp for Cable C014 + C015/16                                |
|                           | M | Separate version - Material JB: 304 RAW - IP68 - with Preamp - n.2 MIL connectors for Cable C015/016-CC/CS + CB      |
|                           | K | Separate version - Material JB: 304 Polished - IP68 for Cable C014 + C015/16                                         |
|                           | W | Separate version - Material JB: 304 Polished - IP68 - n.2 MIL connectors for Cable C015/016-CC/CS + CB               |
|                           | V | Separate version - Material JB: 304 Polished - IP67 - with Preamp for Cable C014 + C015/16                           |
|                           | J | Separate version - Material JB: 304 Polished - IP68 - with Preamp - n.2 MIL connectors for Cable C015/016-CC/CS + CB |

Complete code  
example for  
order

MS1000-T100-0A2A

## ISOIL INDUSTRIA S.p.A.

| HEAD OFFICE                                                                                                            | SERVICE                               |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Via Fratelli Gracchi, 27<br>20092 Cinisello Balsamo (MI)<br>Tel +39 02 66027.1<br>Fax +39 02 6123202<br>sales@isoil.it | <small>isomagservice@isoil.it</small> |

If you want to find the complete list of our distributors access at the following link:  
<http://www.isoil.it/en>



Due to the constant technical development and improvement of its products, the manufacturer reserves the right to make changes and/or modify the information contained in this document without notice.