

ISOMAG 

The friendly magmeter

DATA SHEET



MS 2500

CE

ISOIL 
I N D U S T R I A



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TECHNICAL DATA

OVERALL FEATURES

Nominal diameter	☐ DN 25 ÷ 3000
Minimum conductivity	☐ 5 µS/cm
Humidity Range	☐ 0÷100% (IP 67)
Accuracy	☐ See relevant converter data sheet
CE Certification	☐ Yes
PED	☐ Yes

STANDARD FEATURES

Body material	☐ Carbon steel painted
Nominal pressure	☐ 1600 kPa (4000 kPa up to DN 50)
Process connection	☐ Flanges std : UNI PN 16
Version – protection rating	☐ Compact IP67 (IP68 on request)
Flanges material	☐ Carbon steel
Lining material	☐ Polipropilene (max. PN 16) ☐ Ebonite ☐ PTFE (max PN 40) ☐ Rilsan
Gasket material (ONLY for lining in Polypropylene)	☐ FPM
Liquid temperature	☐ -20°C ÷ 70°C with Rilsan lining ☐ 0°C ÷ 60°C with PP lining ☐ -5°C ÷ 80°C with ebonite lining ☐ -20°C ÷ 100°C with PTFE lining in compact version
Vacuum resistance	☐ 20 Kpa (absolute) at 100 °C (60/80°C for PP/Ebonite)
Electrodes material	☐ Acciaio inox AISI 316 ☐ Hastelloy ☐ Platinum ☐ Titanium ☐ Tantalum

OPTIONAL FEATURES

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

Body material	☐ Stainless steel AISI 304 or 316
Gaskets material (ONLY for lining in Polypropylene)	☐ EPDM
Nominal pressure	☐ Higher pressure rates available on request
Process connection	☐ Flanges: UNI, ANSI, DIN, JIS Others on request
Flanges material	☐ Stainless steel AISI 304 - AISI316
Liquid temperature	☐ -20°C ÷ 180°C* with PTFE lining in separate version: * sensors with working temperature higher than 110 ° C are classified according to PED guidelines (details on table in the next page).
Lining material	☐ On request
Electrodes material	☐ On request
Grounding electrode	☐ On request
Version – protection rating	☐ Separate version (max 20m) – IP 68 ☐ Separate version (max 500 m), with preamplifier – IP 67 ☐ Separate version (max 500 m), with preamplifier – IP 68
Certifications	☐ MI-001 (check table below) ☐ MI-004 (check table below)

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.

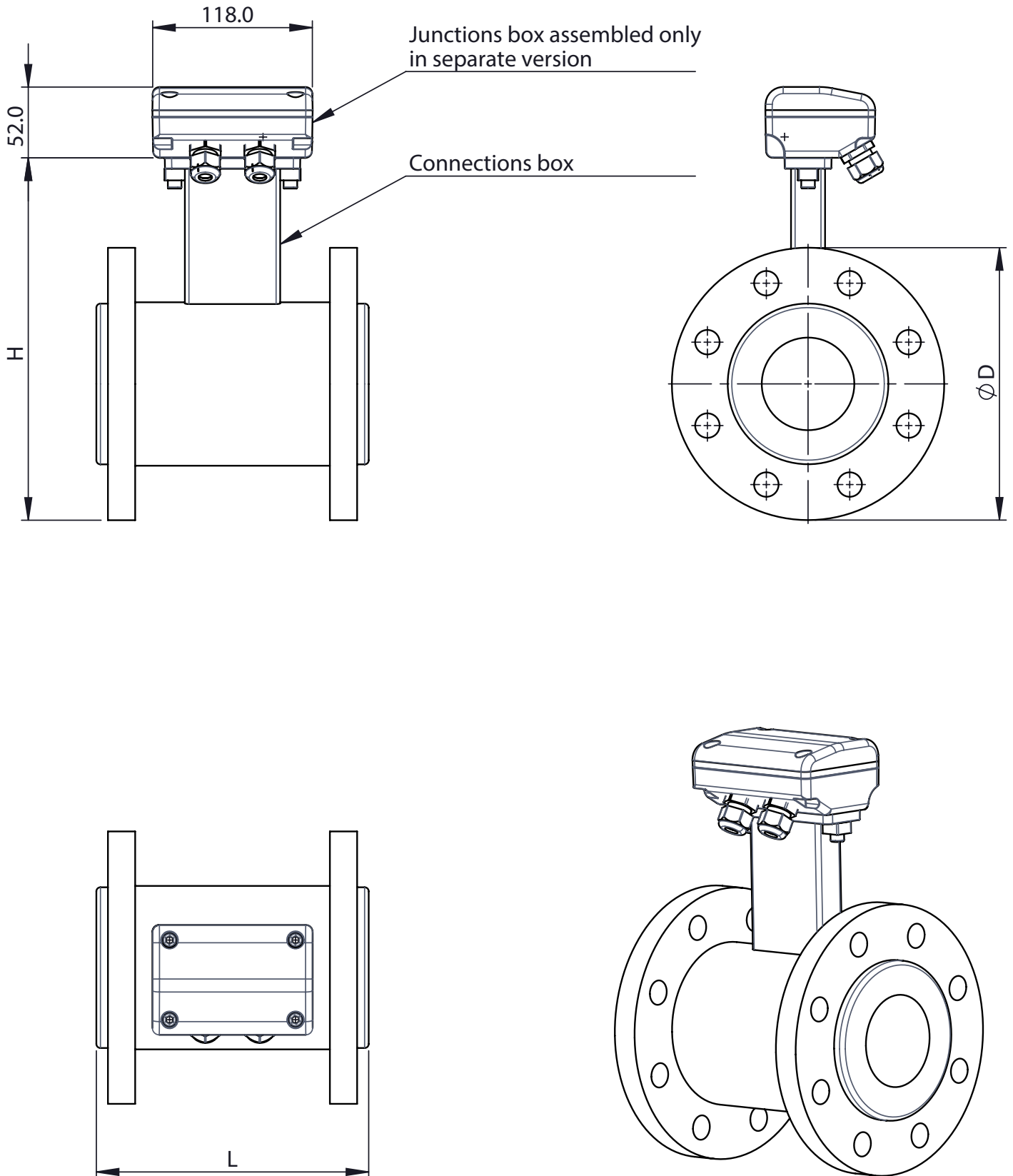
TAB. A PED DIRECTIVE FOR WATER WITH TEMPERATURE <110°C ALL LINING : PP, EBONITE, PTFE				
DN	NOMINAL PRESSURE (PN)			
	10	16	25	40
25	USARE PN 40			E
32				E
40				E
50	USARE PN 16	E	USARE PN 40	E
65		E		E
80		E		E
100		E		E
125		E		E
150		E		E
200	E	E	E	E
250	I	I	I	I
300	I	I	I	I
350	I	I	I	I
400	I	I	I	I
450	I	I	I	I
500	I	I	I	I
600	I	I	I	I
700	I	I	I	I
800	I	I	I	I
900	I	I	I	I
1000	I	I	I	I
1200	I	I	I	I
1300	I	I	I	I
1400	I	I	I	I
1500	I	I	I	I
1600	I	I	I	I
1700	I	I	I	I
1800	I	I	I	I
2000	I	I	I	I
2400	I	I	I	I

TAB. B PED DIRECTIVE FOR WATER WITH TEMPERATURE >=110°C ONLY PTFE LINING				
DN	NOMINAL PRESSURE (PN)			
	10	16	25	40
25	USARE PN 40			E
32				E
40				II
50	USARE PN 16	I	USARE PN 40	II
65		I		II
80		I		II
100		I		II
125		I		II
150		I		II
200	I	I	II	II
250	I	II	II	II
300	I	II	III	III
350	I	III	III	III
400	II	III	III	III
450	II	III	III	III
500	II	III	III	III

LEGENDA	
E	EXCLUDED FROM DIRECTIVE
I	PED CAT. I
II	PED CAT. II
III	PED CAT. III

The products in Category II and III are supplied with a specific declaration of conformity for each instrument

OVERALL DIMENSIONS



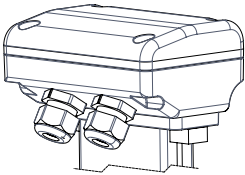
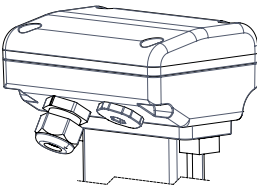
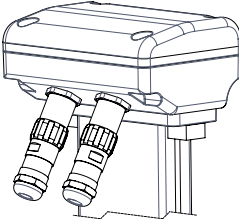
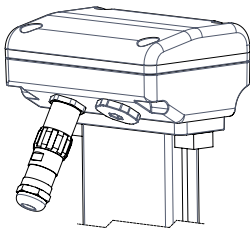
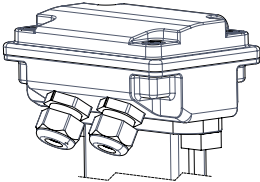
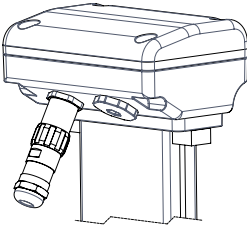
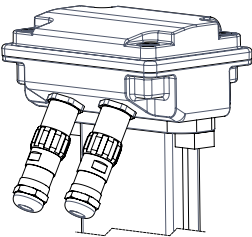
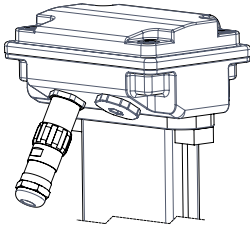
MS 2500 PN 10/64 - ANSI 150/300 OVERALL DIMENSIONS

DIMENSIONS mm (inches)			PN						
			PN 10	PN 16	PN 25	PN 40	PN 64	ANSI 150	ANSI 300
DN	25 (1")	L	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
		H	185 (7.28)	185 (7.28)	185 (7.28)	185 (7.28)	198 (7.80)	181 (7.13)	190 (7.48)
		D	115 (4.53)	115 (4.53)	115 (4.53)	115 (4.53)	140 (5.51)	108 (4.25)	124 (4.88)
	32 (1"1/4)	L	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
		H	203 (8)	203 (8)	203 (8)	203 (8)	209 (8.23)	192 (7.56)	199 (7.83)
		D	140 (5.51)	140 (5.51)	140 (5.51)	140 (5.51)	155 (6.10)	118 (4.65)	133 (5.24)
	40 (1"1/2)	L	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
		H	213 (8.39)	213 (8.39)	213 (8.39)	213 (8.39)	220 (8.66)	207 (8.15)	221 (8.7)
		D	150 (5.90)	150 (5.90)	150 (5.90)	150 (5.90)	170 (6.69)	127 (5)	156 (6.14)
	50 (2")	L	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
		H	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	233 (9.17)	222 (8.74)	228 (8.98)
		D	165 (6.50)	165 (6.50)	165 (6.50)	165 (6.50)	180 (7.09)	152 (5.98)	165 (6.5)
	65 (2"1/2)	L	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
		H	248 (9.76)	248 (9.76)	248 (9.76)	248 (9.76)	257 (10.12)	245 (9.65)	251 (9.88)
		D	185 (7.28)	185 (7.28)	185 (7.28)	185 (7.28)	205 (8.07)	178 (7.01)	191 (7.52)
	80 (3")	L	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
		H	263 (10.35)	263 (10.35)	263 (10.35)	263 (10.35)	267 (10.51)	259 (10.2)	268 (10.55)
		D	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	215 (8.46)	191 (7.52)	210 (8.27)
	100 (4")	L	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)
		H	283 (11.14)	283 (11.14)	294 (11.57)	294 (11.57)	297 (11.69)	288 (11.34)	300 (11.81)
		D	220 (8.66)	220 (8.66)	235 (9.25)	235 (9.25)	250 (9.84)	229 (9.02)	254 (10)
	125 (5")	L	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)	250 (9.84)
		H	313 (12.32)	313 (12.32)	325 (12.80)	325 (12.80)	330 (13)	315 (12.4)	328 (12.91)
		D	250 (9.84)	250 (9.84)	270 (10.63)	270 (10.63)	295 (11.61)	254 (10)	279 (10.98)
	150 (6")	L	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)
		H	344 (13.54)	344 (13.54)	355 (13.98)	355 (13.98)	377 (14.84)	341 (13.43)	360 (14.17)
		D	285 (11.22)	285 (11.22)	300 (11.81)	300 (11.81)	345 (13.58)	279 (10.98)	318 (12.52)
	200 (8")	L	350 (13.78)	350 (13.78)	350 (13.78)	350 (13.78)	350 (13.78)	350 (13.78)	350 (13.78)
		H	399 (15.71)	399 (15.71)	415 (16.34)	425 (16.73)	435 (17.13)	401 (15.79)	420 (16.54)
		D	340 (13.39)	340 (13.39)	360 (14.17)	375 (14.76)	415 (16.34)	343 (13.5)	381 (15)
	250 (10)	L	450 (17.72)	450 (17.72)	450 (17.72)	450 (17.72)	450 (17.72)	450 (17.72)	450 (17.72)
		H	454 (17.87)	460 (18.11)	475 (18.7)	493 (19.41)	491 (19.33)	461 (18.15)	480 (18.9)
		D	395 (15.55)	405 (15.94)	425 (16.73)	450 (17.72)	470 (18.5)	406 (15.98)	445 (17.52)
	300 (12")	L	500 (19.69)	500 (19.69)	500 (19.69)	500 (19.69)	500 (19.69)	500 (19.69)	500 (19.69)
		H	504 (19.84)	515 (20.28)	535 (21.06)	558 (21.97)	545 (21.46)	527 (20.75)	546 (21.5)
		D	445 (17.52)	460 (18.11)	485 (19.09)	515 (20.28)	530 (20.87)	483 (19.02)	521 (20.51)
	350 (14")	L	550 (21.65)	550 (21.65)	550 (21.65)	550 (21.65)	550 (21.65)	550 (21.65)	550 (21.65)
		H	564 (22.2)	575 (22.64)	598 (23.54)	619 (24.37)	603 (23.74)	582 (22.91)	607 (23.9)
		D	505 (19.88)	520 (20.47)	555 (21.85)	580 (22.83)	600 (23.62)	533 (20.98)	584 (22.99)
	400 (16")	L	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)
		H	620 (24.41)	630 (24.8)	659 (25.94)	695 (27.36)	670 (26.38)	639 (25.16)	664 (26.14)
		D	565 (22.24)	580 (22.83)	62 (2.44)	660 (25.98)	670 (26.38)	597 (23.5)	648 (25.51)
	450 (18")	L	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)		600 (23.62)	600 (23.62)
		H	670 (26.38)	690 (27.17)	709 (27.91)	720 (28.35)		688 (27.09)	726 (28.58)
		D	615 (24.21)	640 (25.2)	670 (26.38)	685 (26.97)		635 (25)	711 (27.99)
	500 (20")	L	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)		600 (23.62)	600 (23.62)
		H	725 (28.54)	758 (29.84)	769 (30.28)	784 (30.87)		751 (29.57)	770 (30.31)
		D	670 (26.38)	715 (28.15)	730 (28.74)	755 (29.72)		699 (27.52)	775 (30.51)

MS 2500 PN 10/64 - ANSI 150/300 OVERALL DIMENSIONS

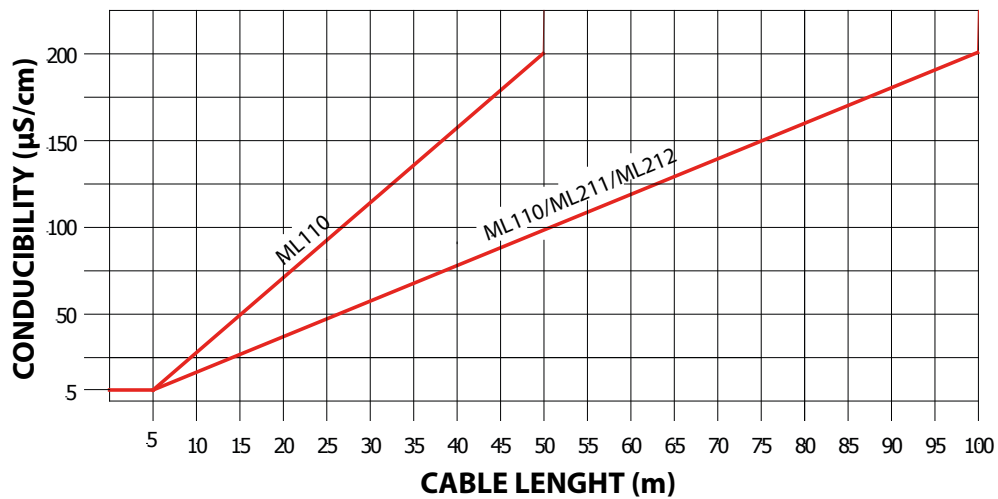
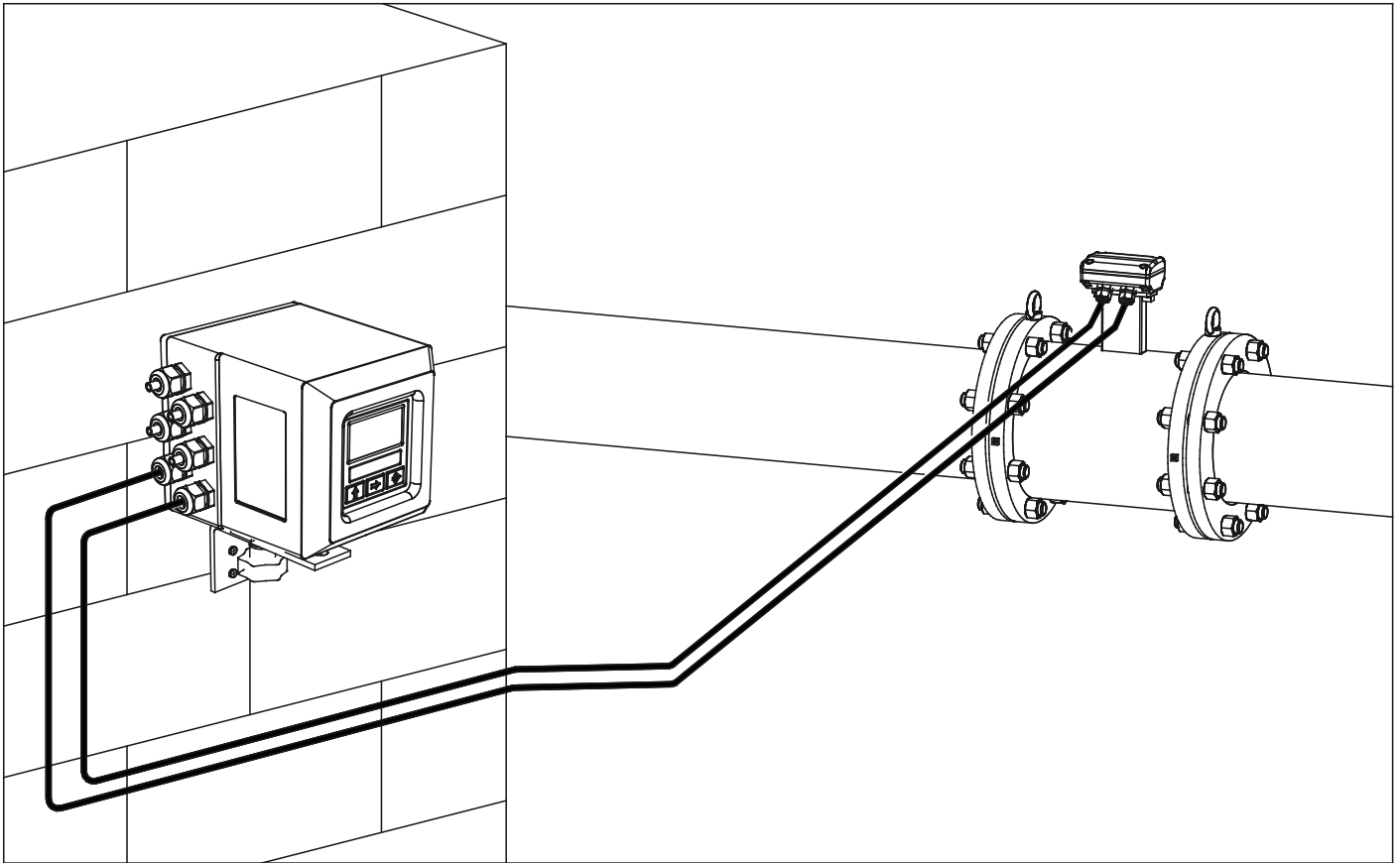
DIMENSIONS mm (inches)			PN						
			PN 10	PN 16	PN 25	PN 40	PN 64	ANSI 150	ANSI 300
DN	600 (24")	L	600 (23.62)	600 (23.62)	600 (23.62)	600 (23.62)		600 (23.62)	600 (23.62)
		H	830 (32.68)	879 (34.61)	880 (34.65)	911 (35.87)		866 (34.09)	916 (36.06)
		D	780 (30.71)	840 (33.07)	845 (33.27)	890 (35.04)		813 (32.01)	914 (35.98)
	650 (26")	L						650 (25.59)	650 (25.59)
		H						921 (36.26)	1002 (39.45)
		D						870 (34.25)	972 (38.27)
	700 (28")	L	700 (27.56)	700 (27.56)	700 (27.56)	700 (27.56)		700 (27.56)	
		H	895 (35.24)	949 (37.36)	989 (38.94)	1016 (40)		1016 (40)	
		D	800 (31.5)	910 (35.83)	960 (37.8)	995 (39.17)		927,1 (36,5)	
	750 (30")	L						750 (29.53)	750 (29.53)
		H						1032 (40.63)	1121 (44.13)
		D						984 (38.74)	1092 (42.99)
	800 (32")	L	800 (31.5)	800 (31.5)	800 (31.5)	800 (31.5)		800 (31.5)	
		H	1058 (41.65)	1060 (41.73)	1106 (43.54)	1149 (45.24)		1149 (45.24)	
		D	1015 (39.96)	1025 (40.35)	1085 (42.72)	1114 (43.86)		1060,5 (47,15)	
	850 (34")	L						850 (33.46)	850 (33.46)
		H						1149 (45.24)	1230 (48.43)
		D						1111 (43.74)	1207 (47.52)
	900 (36")	L	900 (35.43)	900 (35.43)	900 (35.43)	900 (35.43)		900 (35.43)	900 (35.43)
		H	1158 (45.59)	1160 (45.67)	1206 (47.48)	1259 (49.57)		1206 (47.48)	1292 (50.87)
		D	1115 (43.9)	1125 (44.29)	1185 (46.65)	1250 (49.21)		1168 (45.98)	1270 (50)
	1000 (40")	L	1000 (39.37)	1000 (39.37)	1000 (39.37)	1000 (39.37)		1000 (39.37)	1000 (39.37)
		H	1269 (49.96)	1284 (50.55)	1329 (52.32)	1369 (53.9)		1381 (54.37)	1467 (57.76)
		D	1230 (48.43)	1255 (49.41)	1320 (51.97)	1360 (53.54)		1346 (52.99)	1448 (57.01)
	1050 (42")	L						1050 (41.3)	
		H						1355.0 (54.00)	
		D						1346.2 (53.00)	
	1100 (44")	L						1100 (43.3)	
		H						1428 (56.25)	
		D						1403.4 (55.25)	
	1200 (48")	L						1200 (47.24)	
		H						1530 (60.50)	
		D						1511.3 (59.50)	
	1800 (72")	L						1800 (72.00)	
		H						1381 (54.37)	
		D						2197 (86.50)	

SENSOR VERSIONS/JUNCTION BOX

	1	2	3	4
A PAINTED ALUMINIUM				
B AISI 304				

PRICE LIST OPTIONS	JUNCTION BOX TYPE (surface finish)
A	Without junction box, converter connected on the connections box
B	A-1 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) 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) 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

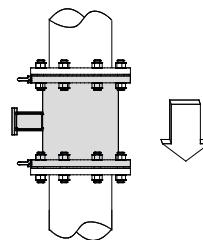
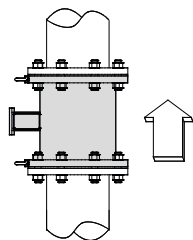


Notes:

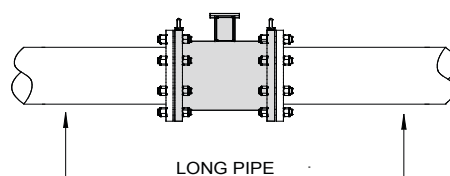
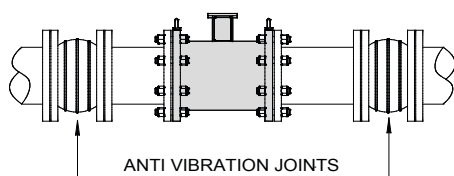
- It is recommended to install the connection cables away from, or protect against sources of electromagnetic noise.
- The minimum conductivity of the liquid medium to ensure correct functionality of the empty pipe detection is 20 µS/cm

INSTALLATION RECOMMENDATIONS

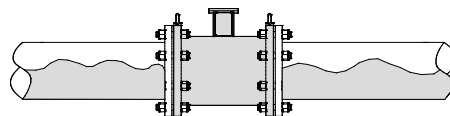
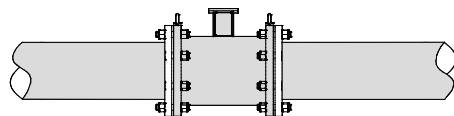
In vertical installations an ascending flow is preferable. For vertical installations with descending flow direction contact the manufacturer



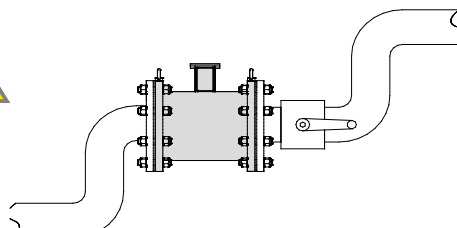
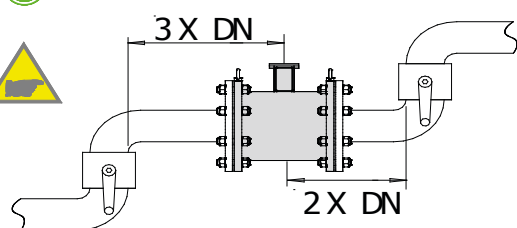
For installations in long pipe lines, please use anti vibration joints



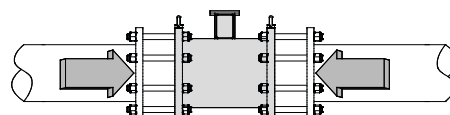
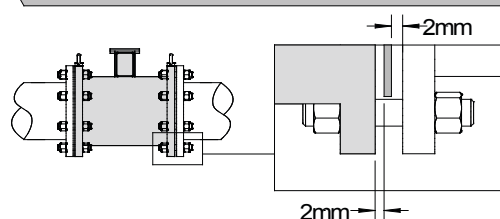
Avoid a partially empty pipe, during operation the pipe must be either completely full of liquid or completely empty



Install the sensor away from bends and hydraulic accessories



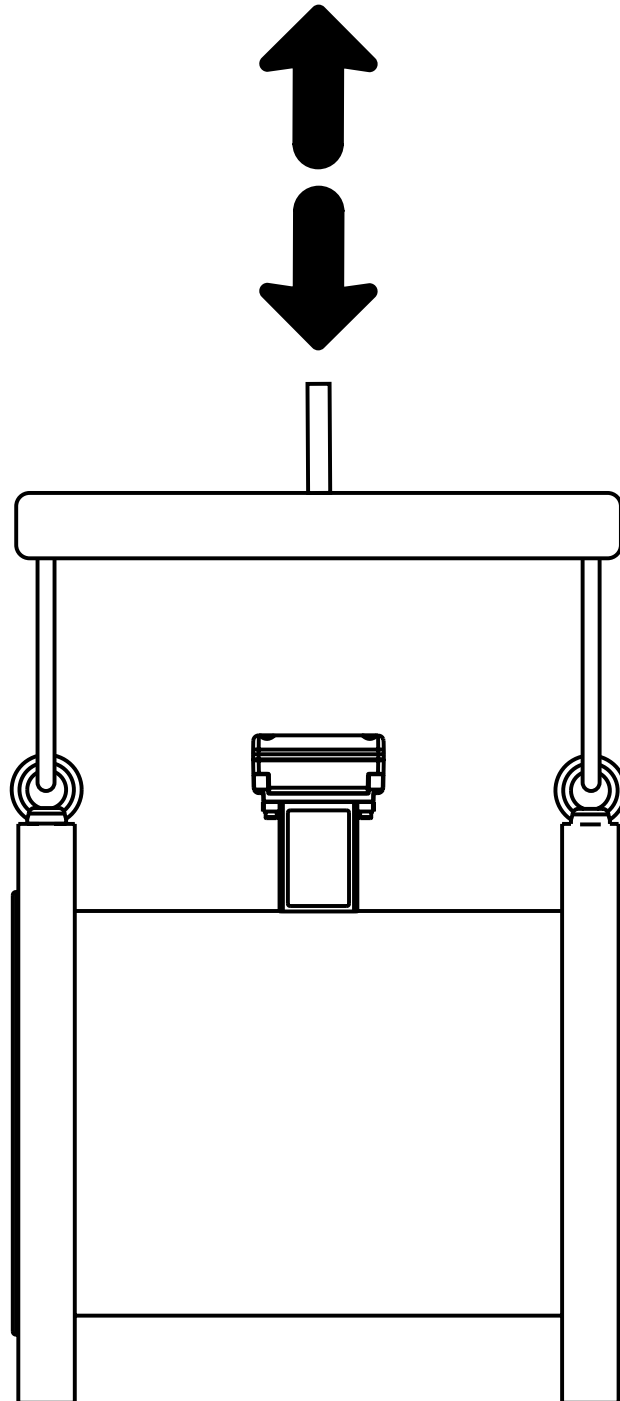
Avoid positioning flanges by tightening the nuts.



RECOMMENDED INSTALLATION PROCEDURE

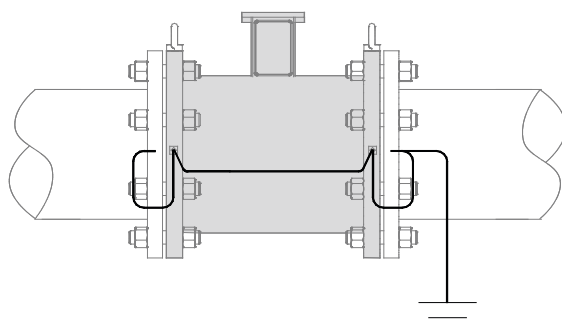
Sensors weighing more than 20Kg are equipped of appropriate eyebolts to lift the sensor according to the drawing above.

The eyebolts support ONLY the weight of the meter.

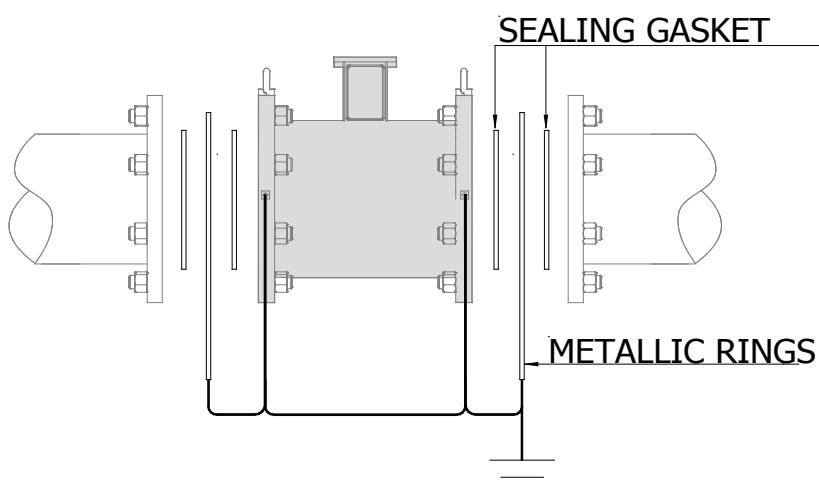


SENSOR GROUNDING

METALLIC PIPE



INSULATED PIPE



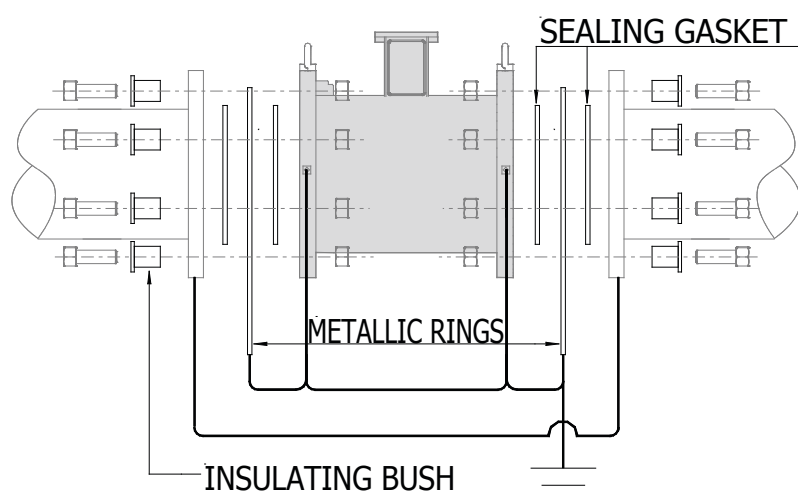
If the sensor has to be installed in a pipe made of an insulating material, the following are necessary:

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

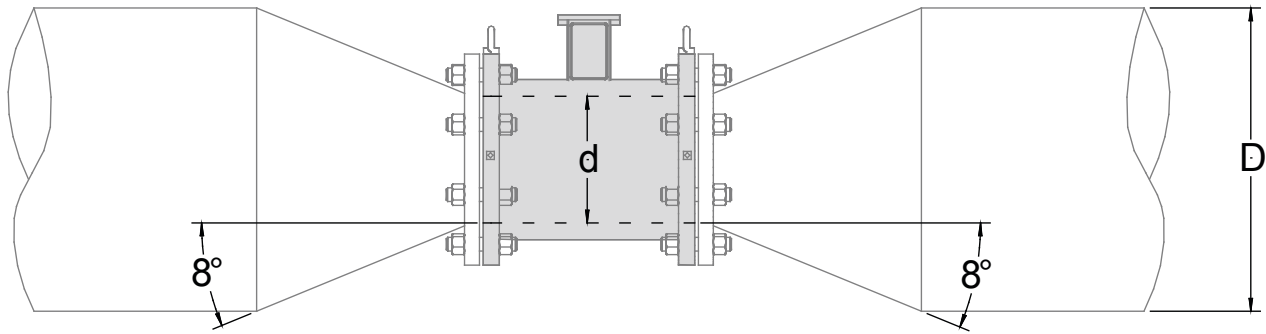


If the sensor has to be installed in the pipe with cathodic protection, the following are necessary:

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:

- Δp = Pressure loss in [Pa]
 ρ = Fluid density [kg/m³] typical value $\rho = 1000$ [kg/m³]
 d = sensor diameter [m]
 D = pipe diameter (greater than sensor diameter) [m]
 u = Mean flow velocity in sensor diameter [m/s]

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

Notes:

- $\rho = 1000$ [kg/m³] 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].

MS2500: MI-001 DETAILS

The sensor's diameters listed below, coupled with ML210 ML110 and ML255, are certified according to European Directive Measuring Instruments Directive (MID) 2014/32/EU - 26/02/2014 Annex III (MI-001) Module B+D

SENSOR SIZE	mm	25	32	40	50	65	80	100	125	150	200	250
	inch	1	1 ¼	1 ½	2	2 ½	3	4	5	6	8	10
Q1	m³/h	0.100	0.156	0.250	0.394	0.625	1.00	1.56	2.50	3.94	6.25	
Q2	m³/h	0.16	0.25	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10	
Q3	m³/h	16.0	25.0	40.0	63.0	100.0	160.0	250.0	400.0	630.0	1000	1600
Q4	m³/h	20	31.3	50	78.8	125	200	312.5	500	787.5	1250	2000
R	Q3/Q1	160 (ML210-ML110)										
R	Q3/Q1	from 100 up to 400 (ML255)										

MI-001 ALLOWABLE RANGE

- range ammissibile Q3:

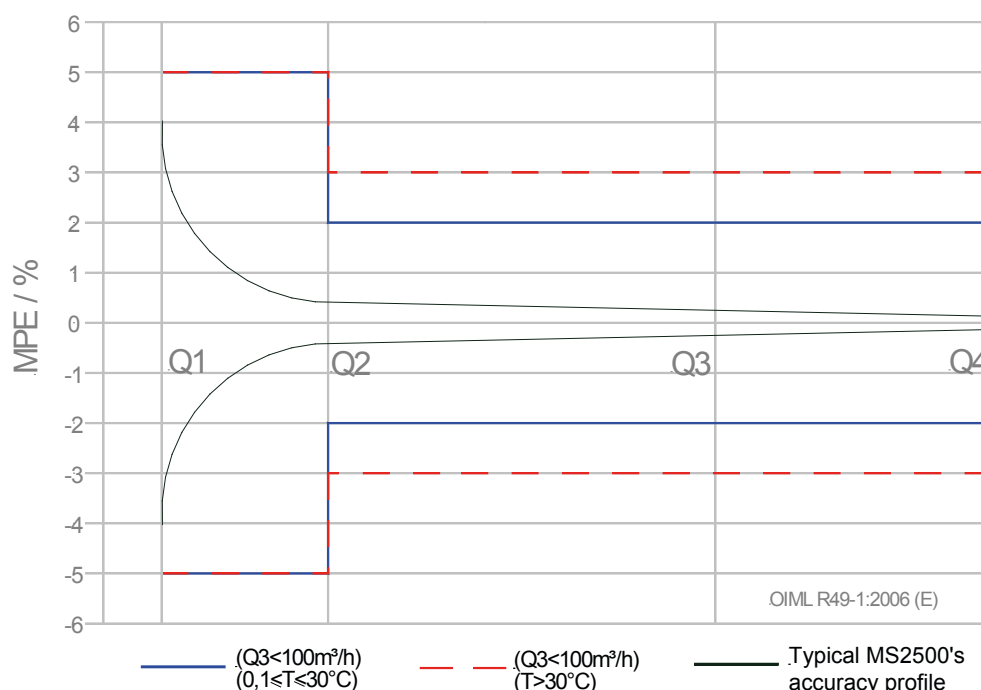
/m³h ⁻¹	/dm³s ⁻¹	/m³h ⁻¹	/dm³s ⁻¹	/m³h ⁻¹	/dm³s ⁻¹	/m³h ⁻¹	/dm³s ⁻¹	/m³h ⁻¹	/dm³s ⁻¹
1	0,278	1,6	0,444	2,5	0,694	4	1,111	6,3	1,750
10	2,778	16	4,444	25	6,944	40	11,11	63	17,50
100	27,78	160	44,44	250	69,44	400	111,1	630	175,0
1000	277,8	1600	444,4	2500	694,4	4000	1111	6300	1750

- range ammissibile R (=Q3/Q1)

10	12,5	16	20	25	31,5	40	50	63	80
100	125	160	200	250	315	400	500	630	800

- Q2/Q1=1,6
- Q4/Q3=1,25

OIML R49 ACCURACY CLASS 2 (MAXIMUM PERMISSIBLE ERROR)



MS2500: MI-004 DETAILS

The sensor's diameters listed below, coupled with ML210 and ML110 , are certified according to European Directive Measuring Instruments Directive (MID) 2014/32/EU - 26/02/2014 Annex VI (MI-004) Module B+D

DN sensore	mm	25	32	40	50	65	80	100	125	150	200
	inch	1	1 ¼	1 ½	2	2 ½	3	4	5	6	8
q_i	m ³ /h	0.16	0.25	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10
0,1 q_p	m ³ /h	1.6	2.5	4.0	6.3	10	16	25	40	63	100
q_p (10m/s)	m ³ /h	16	25	40	63	100	160	250	400	630	1000
q_p/q_i		100	100	100	100	100	100	100	100	100	100

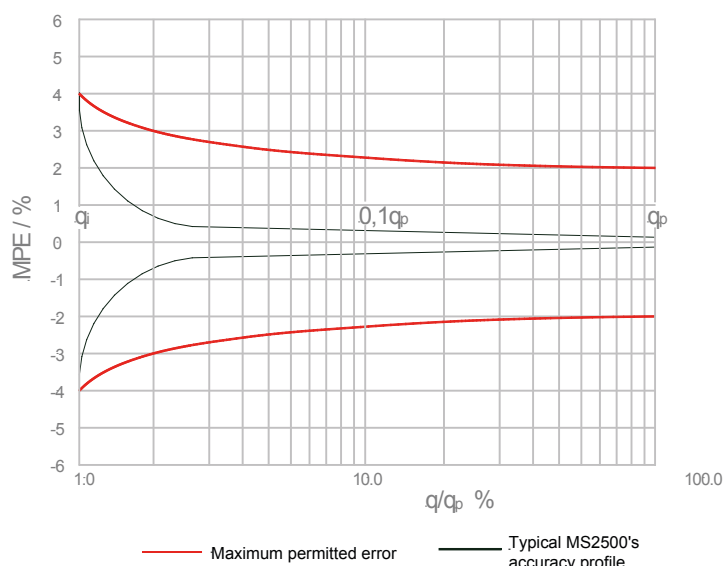
DN sensore	mm	25	32	40	50	65	80	100	125	150	200
	inch	1	1 ¼	1 ½	2	2 ½	3	4	5	6	8
q_i	m ³ /h	0.20	0.32	0.50	0.80	1.26	2.0	3.2	5.0	8.0	12.6
0,1 q_p	m ³ /h	1.0	1.6	2.5	4.0	6.3	10	16	25	40	63
q_p (5m/s)	m ³ /h	10	16	25	40	63	100	160	250	400	630
q_p/q_i		50	50	50	50	50	50	50	50	50	100

DN sensore	mm	25	32	40	50	65	80	100	125	150	200
	inch	1	1 ¼	1 ½	2	2 ½	3	4	5	6	8
q_i	m ³ /h	0.16	0.25	0.40	0.64	1.0	1.6	2.52	4.0	6.4	10
0,1 q_p	m ³ /h	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10	16	25
q_p (2,5m/s)	m ³ /h	4.0	6.3	10	16	25	40	63	100	160	250
q_p/q_i		25	25	25	25	25	25	25	25	25	100

DN sensore	mm	25	32	40	50	65	80	100	125	150	200
	inch	1	1 ¼	1 ½	2	2 ½	3	4	5	6	8
q_i	m ³ /h	0.16	0.25	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10
0,1 q_p	m ³ /h	0.16	0.25	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10
q_p (1,0m/s)	m ³ /h	1.6	2.5	4.0	6.3	10	16	25	40	63	100
q_p/q_i		10	10	10	10	10	10	10	10	10	10

MID 004-MPE CLASS 2

(MAXIMUM PERMISSIBLE ERROR)



HOW TO ORDER

MS 2500		
code	Nominal Diameter / Lining / Liquid temperature / Measuring range	
T100	P25	DN25 (1") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...0,72/0...18 m3/h
	T25	DN25 (1") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...0,72/0...18 m3/h
	HT25	DN25 (1") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...0,72/0...18 m3/h
	P32	DN32 (1 1/4") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...1,16/0...29 m3/h
	T32	DN32 (1 1/4") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...1,16/0...29 m3/h
	HT32	DN32 (1 1/4") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...1,16/0...29 m3/h
	P40	DN40 (1 1/4") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...1,8/0...45 m3/h
	T40	DN40 (1 1/2") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...1,8/0...45 m3/h
	HT40	DN40 (1 1/2") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...1,8/0...45 m3/h
	P50	DN50 (2") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...2,88/0...72 m3/h
	T50	DN50 (2") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...2,88/0...72 m3/h
	HT50	DN50 (2") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...2,88/0...72 m3/h
	R50	DN50 (2") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...2,88/0...72 m3/h
	P65	DN65 (2 1/2") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...4,8/0...120 m3/h
	T65	DN65 (2 1/2") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...4,8/0...120 m3/h
	HT65	DN65 (2 1/2") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...4,8/0...120 m3/h
	R65	DN65 (2 1/2") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...4,8/0...120 m3/h
	P80	DN80 (3") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...7,2/0...180 m3/h
	T80	DN80 (3") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...7,2/0...180 m3/h
	HT80	DN80 (3") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...7,2/0...180 m3/h
	R80	DN80 (3") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...7,2/0...180 m3/h
	P100	DN100 (4") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...11,2/0...280 m3/h
	T100	DN100 (4") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...11,2/0...280 m3/h
	HT100	DN100 (4") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...11,2/0...280 m3/h
	R100	DN100 (4") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...11,2/0...280 m3/h
	P125	DN125 (5") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...18/0...450 m3/h
	T125	DN125 (5") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...18/0...450 m3/h
	HT125	DN125 (5") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...18/0...450 m3/h
	R125	DN125 (5") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...18/0...450 m3/h
	P150	DN150 (6") , P.P. lining, liquid maximum temp. 60 °C measuring range 0...25,6/0...640 m3/h
	T150	DN150 (6") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...25,6/0...640 m3/h
	HT150	DN150 (6") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...25,6/0...640 m3/h
	R150	DN150 (6") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...25,6/0...640 m3/h
	E200	DN200 (8") , Ebonite lining, liquid maximum temp. 80 °C measuring range 0...45,2/0...1130 m3/h
	T200	DN200 (8") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...45,2/0...1130 m3/h
	HT200	DN200 (8") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...45,2/0...1130 m3/h
R200	DN200 (8") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...45,2/0...1130 m3/h	
E250	DN250 (10") , Ebonite lining, liquid maximum temp. 80 °C measuring range 0...70,8/0...1770 m3/h	
T250	DN250 (10") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...70,8/0...1770 m3/h	
HT250	DN250 (10") , PTFE lining, liquid maximum temp. 180 °C measuring range 0...70,8/0...1770 m3/h	
R250	DN250 (10") , RILSAN lining, liquid maximum temp. 70 °C measuring range 0...70,8/0...1770 m3/h	
E300	DN300 (12") , Ebonite lining, liquid maximum temp. 80 °C measuring range 0...100,8/0...2520 m3/h	
T300	DN300 (12") , PTFE lining, liquid maximum temp. 110 °C measuring range 0...100,8/0...2520 m3/h	

HT300	DN300 (12"), PTFE lining, liquid maximum temp. 180 °C measuring range 0...100,8/0...2520 m3/h
R300	DN300 (12"), RILSAN lining, liquid maximum temp. 70 °C measuring range 0...100,8/0...2520 m3/h
E350	DN350 (14"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...138/0...3450 m3/h
T350	DN350 (14"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...138/0...3450 m3/h
R350	DN350 (14"), RILSAN lining, liquid maximum temp. 70 °C measuring range 0...138/0...3450 m3/h
E400	DN400 (16"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...180/0...4500 m3/h
T400	DN400 (16"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...180/0...4500 m3/h
R400	DN400 (16"), RILSAN lining, liquid maximum temp. 70 °C measuring range 0...180/0...4500 m3/h
E450	DN450 (18"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...228,8/0...5720 m3/h
T450	DN450 (18"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...228,8/0...5720 m3/h
E500	DN500 (20"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...284/0...7100 m3/h
T500	DN500 (20"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...284/0...7100 m3/h
E550	DN500 (20"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...348/0...8712m3/h
E600	DN600 (24"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...408/0...10200 m3/h
T600	DN600 (24"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...408/0...10200 m3/h
E650	(26"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...480/0...12000 m3/h
T650	(26"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...480/0...12000 m3/h
E700	DN700, Ebonite lining, liquid maximum temp. 80 °C measuring range 0...560/0...14000 m3/h
T700	DN700, PTFE lining, liquid maximum temp. 110 °C measuring range 0...560/0...14000 m3/h
E750	(30"), rEbonite lining, liquid maximum temp. 80 °C measuring range 0...640/0...16000 m3/h
T750	(30"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...640/0...16000 m3/h
E800	DN800, Ebonite lining, liquid maximum temp. 80 °C measuring range 0...720/0...18000 m3/h
T800	DN800, PTFE lining, liquid maximum temp. 110 °C measuring range 0...720/0...18000 m3/h
E850	(34"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...820/0...20500 m3/h
T850	(34"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...820/0...20500 m3/h
E900	DN900 (36"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...920/0...23000 m3/h
T900	DN900 (36"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...920/0...23000 m3/h
E1000	DN1000 (40"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...1140/0...28500 m3/h
T1000	DN1000 (40"), PTFE lining, liquid maximum temp. 110 °C measuring range 0...1140/0...28500 m3/h
E1050	DN1050 (42"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...1270/0...31750 m3/h
E1200	DN1200 (48"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...1600/0...40.000 m3/h
E1400	DN1400 (56"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...2200/0...55000 m3/h
E1600	DN1600 (64"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...2880/0...72000 m3/h
E1800	DN1800 (72"), Ebonite lining, liquid maximum temp. 80 °C measuring range 0...3640/0...91000 m3/h

Gasket material (internal tightness - only PP lining)

A	A	No O-Ring (ONLY FOR PTFE/EBANITE LINING)
	B	O-Ring : FKM
	C	O-Ring : Epdm
	Z	O-Ring : da specificare

Flange type

1	1	Flange EN1092 PN16 (standard with Polypropylene lining)
	2	Flange EN1092 PN10
	3	Flange EN1092 PN25
	4	Flange EN1092 PN40
	5	Flange EN1092 PN64
	6	Flange ANSI 150RF
	7	Flange ANSI 300RF
	8	Flange EN1092 PN6
	9	Flange JIS 10K
	0	Flange: to be specified

Body and Flanges material

A	A	Body and flange in Carbon Steel painted
	B	Body and flange in Stainless Steel (AISI304)
	C	Body and flange in Stainless Steel (AISI316)
	Z	Body and flange material: other

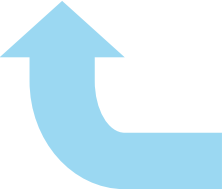
Number and electrodes material

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 / Classe di protezione sensore

A	A	Compact version , IP67 protection rate
	B	Separate version, Painted Aluminum JB, protection rate IP68, standing immersion with 1,5 m of head water - (DEFINE THE CABLE LENGHT - ADD THE COST)
	G	Separate version, Painted Aluminum JB, N° 1 connectors IP 68 suitable for fast cable connections - (DEFINE THE CABLE LENGHT - ADD THE COST)
	F	Separate version, Painted Aluminum JB, N° 2 connectors IP 68 suitable for fast cable connections - (DEFINE THE CABLE LENGHT - ADD THE COST)
	N	Separate version, Painted Aluminum JB , PREAMPLIFIRE*, protection rate IP67 - (DEFINE THE CABLE LENGHT MAX 500 m-ADD THE COST)
	Q	Separate version, Painted Aluminum JB, PREAMPLIFIRE*, N° 1 connectors IP 68 suitable for fast cable connection - (DEFINE THE CABLE LENGHT MAX 500 m-ADD THE COST)
	U	Separate version, AISI 304 JB RAW, protection rate IP68, standing immersion with 1,5 m of head water - (DEFINE THE CABLE LENGHT - ADD THE COST)
	S	Separate version, AISI 304 JB RAW, with N° 1 connectors IP 68 suitable for fast cable connections - (DEFINE THE CABLE LENGHT - ADD THE COST)
	T	Separate version, AISI 304 JB RAW, N° 2 connectors IP 68 suitable for fast cable connections - (DEFINE THE CABLE LENGHT - ADD THE COST)
	P	Separate version, AISI 304 JB RAW, PREAMPLIFIRE*, protection rate IP67 - (DEFINE THE CABLE LENGHT MAX 500 m-ADD THE COST)
	R	Separate version, AISI 304 JB RAW, PREAMPLIFIRE* N° 1 connectors IP 68 suitable for fast cable connections to - (DEFINE THE CABLE LENGHT MAX 500 m-ADD THE COST)
	K	Separate version, AISI 304 JB POLISCHED, protection rate IP68, standing immersion with 1,5 m of head water - (DEFINE THE CABLE LENGHT - ADD THE COST)

	Y	Separate version, AISI 304 JB POLISHED, with N° 1 connectors IP 68 suitable for fast cable connections - (DEFINE THE CABLE LENGHT - ADD THE COST)
	W	Separate version, AISI 304 JB POLISHED, N° 2 connectors IP 68 suitable for fast cable connections - (DEFINE THE CABLE LENGHT - ADD THE COST)
	V	Separate version, AISI 304 JB POLISHED, PREAMPLIFIRE*, protection rate IP67 - (DEFINE THE CABLE LENGHT MAX 500 m-ADD THE COST)
	J	Separate version, AISI 304 JB POLISHED, PREAMPLIFIRE* N° 1 connectors IP 68 suitable for fast cable connections to - (DEFINE THE CABLE LENGHT MAX 500 m-ADD THE COST)



MS2500-T100-A1A2A (Example of Complete code for order)

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http://www.isoil.com/u_vendita.asp



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