

Supplementary documentation for the Operating Instructions **Proline Promag 53L** Electromagnetic flowmeter

In this documentation you will find the supplementary information for the following documentations:

- BA00047D: Proline Promag 53 HART
- BA00052D: Proline Promag 53 FOUNDATION Fieldbus
- BA00053D: Proline Promag 53 PROFIBUS DP/PA
- BA00117D: Proline Promag 53 Modbus RS485

Installing the Promag L sensor



Note!

- The protective covers mounted on the two sensor flanges (DN 50 to 300 / 2 to 12") are used to hold the lap joint flanges in place and to protect the PTFE liner during transportation. Consequently, do not remove these covers until immediately before the sensor is installed in the pipe.
- The covers must remain in place while the device is in storage.
- Make sure that the lining is not damaged or removed from the flanges.

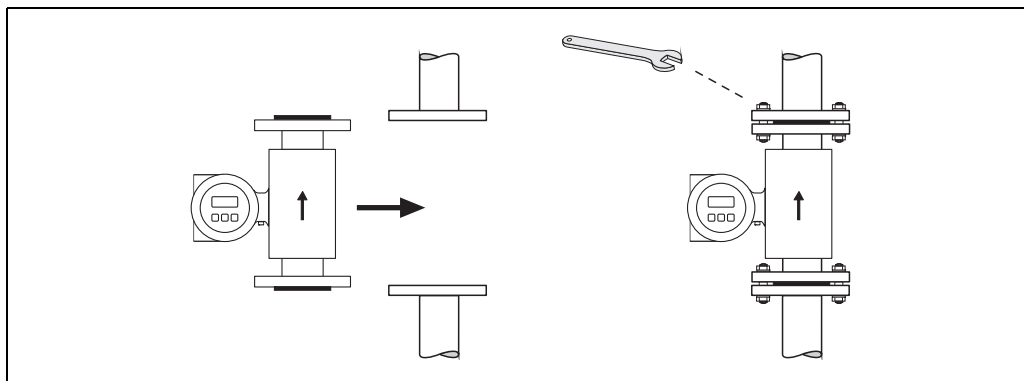


Note!

Bolts, nuts, seals, etc. are not included in the scope of supply and must be supplied by the customer.

The sensor is designed for installation between the two piping flanges.

- Observe in any case the necessary screw tightening torques.
- If grounding disks are used, follow the mounting instructions which will be enclosed with the shipment.
- To comply with the device specification, a concentric installation in the measuring section is required.



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Seals

Comply with the following instructions when installing seals:

- Hard rubber lining → additional seals are **always** necessary.
- Polyurethane lining → **no** seals are required.
- PTFE lining → **no** seals are required.
- For DIN flanges, use only seals according to EN 1514-1.
- Make sure that the seals do not protrude into the piping cross-section.



Note!

Risk of short circuit!

Do not use electrically conductive sealing compounds such as graphite! An electrically conductive layer could form on the inside of the measuring tube and short-circuit the measuring signal.

Ground cable

- If necessary, special ground cables for potential equalization can be ordered as an accessory.
- Information on potential equalization and detailed mounting instructions for the use of ground cables → refer to the "Wiring" chapter of the Operating Instructions

Screw tightening torques

Please note the following:

- The screw tightening torques listed below apply only to lubricated threads and to pipes not subjected to tensile stress.
- Tighten the screws uniformly and in diagonally opposite sequence.
- Overtightening the screws will deform the sealing faces or damage the seals.

Promag L screw tightening torques for EN 1092-1 (DIN 2501), PN 6/10/16

Nominal diameter [mm]	EN (DIN) Pressure rating [bar]	Threaded fasteners	Flange thickness [mm]	Max. screw tightening torque [Nm]		
				Hard rubber	Polyurethane	PTFE
25	...	...	18	...	...	...
32	...	...	18	...	...	...
40	...	...	18	...	...	...
50	PN 10/16	4 × M16	18	-	15	40
65*	PN 10/16	8 × M16	18	-	10	22
80	PN 10/16	8 × M16	20	-	15	30
100	PN 10/16	8 × M16	20	-	20	42
125	PN 10/16	8 × M16	22	-	30	55
150	PN 10/16	8 × M20	22	-	50	90
200	PN 10	8 × M20	24	-	65	130
250	PN 10	12 × M20	26	-	50	90
300	PN 10	12 × M20	28	-	55	100
350	PN 6	12 × M20	22	111	120	-
350	PN 10	16 × M20	26	112	118	-
350	PN 16	16 × M24	30	152	165	-
400	PN 6	16 × M20	22	90	98	-
400	PN 10	16 × M24	26	151	167	-
400	PN 16	16 × M27	32	193	215	-
450	PN 6	16 × M20	22	112	126	-
450	PN 10	20 × M24	28	153	133	-
500	PN 6	20 × M20	24	119	123	-
500	PN 10	20 × M24	28	155	171	-
500	PN 16	20 × M30	34	275	300	-
600	PN 6	20 × M24	30	139	147	-
600	PN 10	20 × M27	28	206	219	-
600*	PN 16	20 × M33	36	415	443	-
700	PN 6	24 × M24	24	148	139	-
700	PN 10	24 × M27	30	246	246	-
700	PN 16	24 × M33	36	278	318	-
800	PN 6	24 × M27	24	206	182	-
800	PN 10	24 × M30	32	331	316	-
800	PN 16	24 × M36	38	369	385	-
900	PN 6	24 × M27	26	230	637	-
900	PN 10	28 × M30	34	316	307	-
900	PN 16	28 × M36	40	353	398	-
1000	PN 6	28 × M27	26	218	208	-
1000	PN 10	28 × M33	34	402	405	-
1000	PN 16	28 × M39	42	502	518	-
1200	PN 6	32 × M30	28	319	299	-
1200	PN 10	32 × M36	38	564	568	-
1200	PN 16	32 × M45	48	701	753	-
1400	PN 6	36 × M 33	32	430	-	-
1400	PN 10	36 × M 39	42	654	-	-
1400	PN 16	36 × M 45	52	729	-	-
1600	PN 6	40 × M 33	34	440	-	-
1600	PN 10	40 × M 45	46	946	-	-
1600	PN 16	40 × M 52	58	1007	-	-
1800	PN 6	44 × M 36	36	547	-	-
1800	PN 10	44 × M 45	50	961	-	-
1800	PN 16	44 × M 52	62	1108	-	-
2000	PN 6	48 × M 39	38	629	-	-
2000	PN 10	48 × M 45	54	1047	-	-
2000	PN 16	48 × M 56	66	1324	-	-
2200	PN 6	52 × M 39	42	698	-	-
2200	PN 10	52 × M 52	58	1217	-	-

Nominal diameter [mm]	EN (DIN) Pressure rating [bar]	Threaded fasteners	Flange thickness [mm]	Max. screw tightening torque [Nm]		
				Hard rubber	Polyurethane	PTFE
2400	PN 6	56 × M 39	44	768	-	-
2400	PN 10	56 × M 52	62	1229	-	-

* Designed acc. to EN 1092-1 (not to DIN 2501)

Promag L screw tightening torques for EN 1092-1, PN 6/10/16, P245GH/stainless-steel; Calculated according to EN 1591-1:2014 for flange according to EN 1092-1:2013

Nominal diameter [mm]	EN(DIN) pressure rating	Threaded fastener	Flange thickness [mm]	Nom. tightening torques	
				Hard rubber [Nm]	Polyurethane [Nm]
350	PN 6	12 × M 20	22	60	75
350	PN 10	16 × M 20	26	70	80
400	PN 6	16 × M 20	22	65	70
400	PN 10	16 × M 24	26	100	120
400	PN 16	16 × M 27	32	175	190
450	PN 6	16 × M 20	22	70	90
450	PN 10	20 × M 24	28	100	110
500	PN 6	20 × M 20	24	65	70
500	PN 10	20 × M 24	28	110	120
500	PN 16	20 × M 30	36	225	235
600	PN 6	20 × M 24	30	105	105
600	PN 10	20 × M 27	30	165	160
600	PN 16	20 × M 33	40	340	340
700	PN 6	24 × M 24	30	110	110
700	PN 10	24 × M 27	35	190	190
700	PN 16	24 × M 33	40	340	340
800	PN 6	24 × M 27	30	145	145
800	PN 10	24 × M 30	38	260	260
800	PN 16	24 × M 36	41	465	455
900	PN 6	24 × M 27	34	170	180
900	PN 10	28 × M 30	38	265	275
900	PN 16	28 × M 36	48	475	475
1000	PN 6	28 × M 27	38	175	185
1000	PN 10	28 × M 33	44	350	360
1000	PN 16	28 × M 39	59	630	620
1200	PN 6	32 × M 30	42	235	250
1200	PN 10	32 × M 36	55	470	480
1200	PN 16	32 × M 45	78	890	900
1400	PN 6	36 × M 33	56	300	-
1400	PN 10	36 × M 39	65	600	-
1400	PN 16	36 × M 45	84	1050	-
1600	PN 6	40 × M 33	63	340	-
1600	PN 10	40 × M 45	75	810	-
1600	PN 16	40 × M 52	102	1420	-
1800	PN 6	44 × M 36	69	430	-
1800	PN 10	44 × M 45	85	920	-
1800	PN 16	44 × M 52	110	1600	-
2000	PN 6	48 × M 39	74	530	-
2000	PN 10	48 × M 45	90	1040	-
2000	PN 16	48 × M 56	124	1900	-
2200	PN 6	52 × M 39	81	580	-
2200	PN 10	52 × M 52	100	1290	-
2400	PN 6	56 × M 39	87	650	-
2400	PN 10	56 × M 52	110	1410	-

Promag L screw tightening torques for ASME B16.5, Class 150

Nominal diameter		ASME Pressure rating [lbs]	Threaded fasteners	Max. screw tightening torque					
[mm]	[in]			Hard rubber		Polyurethane		PTFE	
				[Nm]	[lbf · ft]	[Nm]	[lbf · ft]	[Nm]	[lbf · ft]
25	1	...	...	...	...	...	...	...	...
32	1 ¼	...	...	...	...	...	...	...	...
40	1 ½	...	...	...	...	...	...	...	...
50	2	Class 150	4 × 5/8"	-	-	15	11	40	29
80	3	Class 150	4 × 5/8"	-	-	25	18	65	48
100	4	Class 150	8 × 5/8"	-	-	20	15	44	32
150	6	Class 150	8 × ¾"	-	-	45	33	90	66
200	8	Class 150	8 × ¾"	-	-	65	48	125	92
250	10	Class 150	12 × 7/8"	-	-	55	41	100	74
300	12	Class 150	12 × 7/8"	-	-	68	56	115	85
350	14	Class 150	12 × 1"	135	100	158	117	-	-
400	16	Class 150	16 × 1"	128	94	150	111	-	-
450	18	Class 150	16 × 1 ⅛"	204	150	234	173	-	-
500	20	Class 150	20 × 1 ⅛"	183	135	217	160	-	-
600	24	Class 150	20 × 1 ¼"	268	198	307	226	-	-

Promag L screw tightening torques for AWWA, Class D

Nominal diameter		ASME Pressure rating	Threaded fasteners	Max. screw tightening torque					
[mm]	[in]			Hard rubber		Polyurethane		PTFE	
				[Nm]	[lbf · ft]	[Nm]	[lbf · ft]	[Nm]	[lbf · ft]
700	28	Class D	28 × 1 ¼"	247	182	292	215	-	-
750	30	Class D	28 × 1 ¼"	287	212	302	223	-	-
800	32	Class D	28 × 1 ½"	394	291	422	311	-	-
900	36	Class D	32 × 1 ½"	419	309	430	317	-	-
1000	40	Class D	36 × 1 ½"	420	310	477	352	-	-
-	42	Class D	36 × 1 ½"	528	389	518	382	-	-
1200	48	Class D	44 × 1 ½"	552	407	531	392	-	-
-	54	Class D	44 × 1 ¾"	730	538	-	-	-	-
1500	60	Class D	52 × 1 ¾"	758	559	-	-	-	-
-	66	Class D	52 × 1 ¾"	946	698	-	-	-	-
1800	72	Class D	60 × 1 ¾"	975	719	-	-	-	-
2000	78	Class D	64 × 2"	853	629	-	-	-	-
-	84	Class D	64 × 2"	931	687	-	-	-	-
-	90	Class D	68 × 2 ¼"	1048	773	-	-	-	-

Promag L screw tightening torques for AS 2129, Table E

Nominal diameter [mm]	AS 2129 Pressure rating	Threaded fasteners	Max. screw tightening torque [Nm]		
			Hard rubber	Polyurethane	PTFE
350	Table E	12 × M24	203	–	–
400	Table E	12 × M24	226	–	–
450	Table E	16 × M24	226	–	–
500	Table E	16 × M24	271	–	–
600	Table E	16 × M30	439	–	–
700	Table E	20 × M30	355	–	–
750	Table E	20 × M30	559	–	–
800	Table E	20 × M30	631	–	–
900	Table E	24 × M30	627	–	–
1000	Table E	24 × M30	634	–	–
1200	Table E	32 × M30	727	–	–

Promag L screw tightening torques for AS 4087, PN16

Nominal diameter [mm]	AS 4087 Pressure rating	Threaded fasteners	Max. screw tightening torque [Nm]		
			Hard rubber	Polyurethane	PTFE
350	PN 16	12 × M24	203	–	–
375	PN 16	12 × M24	137	–	–
400	PN 16	12 × M24	226	–	–
450	PN 16	12 × M24	301	–	–
500	PN 16	16 × M24	271	–	–
600	PN 16	16 × M27	393	–	–
700	PN 16	20 × M27	330	–	–
750	PN 16	20 × M30	529	–	–
800	PN 16	20 × M33	631	–	–
900	PN 16	24 × M33	627	–	–
1000	PN 16	24 × M33	595	–	–
1200	PN 16	32 × M33	703	–	–

Recommended flows

Flow characteristic values (SI units)

Diameter		Recommended flow rate Min./max. full scale value (v ~ 0.3 or 10 m/s)	Factory settings		
[mm]	[inch]		Full scale value Current output (v ~ 2.5 m/s)	Pulse value (~ 2 pulses/s)	Low flow cut off (v ~ 0.04 m/s)
25	1"	9 to 300 dm ³ /min	75 dm ³ /min	0.50 dm ³	1 dm ³ /min
32	–	15 to 500 dm ³ /min	125 dm ³ /min	1.00 dm ³	2 dm ³ /min
40	1 ½"	25 to 700 dm ³ /min	200 dm ³ /min	1.50 dm ³	3 dm ³ /min
50	2"	35 to 1100 dm ³ /min	300 dm ³ /min	2.50 dm ³	5 dm ³ /min
65	–	60 to 2000 dm ³ /min	500 dm ³ /min	5.00 dm ³	8 dm ³ /min
80	3"	90 to 3000 dm ³ /min	750 dm ³ /min	5.00 dm ³	12 dm ³ /min
100	4"	145 to 4700 dm ³ /min	1200 dm ³ /min	10.00 dm ³	20 dm ³ /min
125	–	220 to 7500 dm ³ /min	1850 dm ³ /min	15.00 dm ³	30 dm ³ /min
150	6"	20 to 600 m ³ /h	150 m ³ /h	0.025 m ³	2.5 m ³ /h
200	8"	35 to 1100 m ³ /h	300 m ³ /h	0.05 m ³	5.0 m ³ /h
250	10"	55 to 1700 m ³ /h	500 m ³ /h	0.05 m ³	7.5 m ³ /h
300	12"	80 to 2400 m ³ /h	750 m ³ /h	0.10 m ³	10 m ³ /h
350	14"	110 to 3300 m ³ /h	1000 m ³ /h	0.10 m ³	15 m ³ /h
375	15"	140 to 4200 m ³ /h	1200 m ³ /h	0.15 m ³	20 m ³ /h
400	16"	140 to 4200 m ³ /h	1200 m ³ /h	0.15 m ³	20 m ³ /h
450	18"	180 to 5400 m ³ /h	1500 m ³ /h	0.25 m ³	25 m ³ /h
500	20"	220 to 6600 m ³ /h	2000 m ³ /h	0.25 m ³	30 m ³ /h
600	24"	310 to 9600 m ³ /h	2500 m ³ /h	0.30 m ³	40 m ³ /h
700	28"	420 to 13500 m ³ /h	3500 m ³ /h	0.50 m ³	50 m ³ /h
750	30"	480 to 15000 m ³ /h	4000 m ³ /h	0.50 m ³	60 m ³ /h
800	32"	550 to 18000 m ³ /h	4500 m ³ /h	0.75 m ³	75 m ³ /h
900	36"	690 to 22500 m ³ /h	6000 m ³ /h	0.75 m ³	100 m ³ /h
1000	40"	850 to 28000 m ³ /h	7000 m ³ /h	1.00 m ³	125 m ³ /h
–	42"	950 to 30000 m ³ /h	8000 m ³ /h	1.00 m ³	125 m ³ /h
1200	48"	1250 to 40000 m ³ /h	10000 m ³ /h	1.50 m ³	150 m ³ /h
–	54"	1550 to 50000 m ³ /h	13000 m ³ /h	1.50 m ³	200 m ³ /h
1400	–	1700 to 55000 m ³ /h	14000 m ³ /h	2.00 m ³	225 m ³ /h
–	60"	1950 to 60000 m ³ /h	16000 m ³ /h	2.00 m ³	250 m ³ /h
1600	–	2200 to 70000 m ³ /h	18000 m ³ /h	2.50 m ³	300 m ³ /h
–	66"	2500 to 80000 m ³ /h	20500 m ³ /h	2.50 m ³	325 m ³ /h
1800	72"	2850 to 90000 m ³ /h	23000 m ³ /h	3.00 m ³	350 m ³ /h
–	78"	3300 to 100000 m ³ /h	28500 m ³ /h	3.50 m ³	450 m ³ /h
2000	–	3400 to 110000 m ³ /h	28500 m ³ /h	3.50 m ³	450 m ³ /h
–	84"	3700 to 125000 m ³ /h	31000 m ³ /h	4.50 m ³	500 m ³ /h
2200	–	4100 to 136000 m ³ /h	34000 m ³ /h	4.50 m ³	540 m ³ /h
–	90"	4300 to 143000 m ³ /h	36000 m ³ /h	5.00 m ³	570 m ³ /h
2400	–	4800 to 162000 m ³ /h	40000 m ³ /h	5.50 m ³	650 m ³ /h

Flow characteristic values (US units)

Diameter		Recommended flow rate Min./max. full scale value (v ~ 0.3 or 10 m/s)	Factory settings		
[inch]	[mm]		Full scale value Current output (v ~ 2.5 m/s)	Pulse value (~ 2 pulses/s)	Low flow cut off (v ~ 0.04 m/s)
1	25	2.5 to 80 gal/min	18 gal/min	0.20 gal	0.25 gal/min
-	32	- gal/min	- gal/min	- gal	- gal/min
1 ½"	40	7 to 190 gal/min	50 gal/min	0.50 gal	0.75 gal/min
2"	50	10 to 300 gal/min	75 gal/min	0.50 gal	1.25 gal/min
-	65	16 to 500 gal/min	130 gal/min	1 gal	2.0 gal/min
3"	80	24 to 800 gal/min	200 gal/min	2 gal	2.5 gal/min
4"	100	40 to 1250 gal/min	300 gal/min	2 gal	4.0 gal/min
-	125	60 to 1950 gal/min	450 gal/min	5 gal	7.0 gal/min
6"	150	90 to 2650 gal/min	600 gal/min	5 gal	12 gal/min
8"	200	155 to 4850 gal/min	1200 gal/min	10 gal	15 gal/min
10"	250	250 to 7500 gal/min	1500 gal/min	15 gal	30 gal/min
12"	300	350 to 10600 gal/min	2400 gal/min	25 gal	45 gal/min
14"	350	500 to 15000 gal/min	3600 gal/min	30 gal	60 gal/min
15"	375	600 to 19000 gal/min	4800 gal/min	50 gal	60 gal/min
16"	400	600 to 19000 gal/min	4800 gal/min	50 gal	60 gal/min
18"	450	800 to 24000 gal/min	6000 gal/min	50 gal	90 gal/min
20"	500	1000 to 30000 gal/min	7500 gal/min	75 gal	120 gal/min
24"	600	1400 to 44000 gal/min	10500 gal/min	100 gal	180 gal/min
28"	700	1900 to 60000 gal/min	13500 gal/min	125 gal	210 gal/min
30"	-	2150 to 67000 gal/min	16500 gal/min	150 gal	270 gal/min
32"	800	2450 to 80000 gal/min	19500 gal/min	200 gal	300 gal/min
36"	900	3100 to 100000 gal/min	24000 gal/min	225 gal	360 gal/min
40"	1000	3800 to 125000 gal/min	30000 gal/min	250 gal	480 gal/min
42"	-	4200 to 135000 gal/min	33000 gal/min	250 gal	600 gal/min
48"	1200	5500 to 175000 gal/min	42000 gal/min	400 gal	600 gal/min
54"	-	9 to 300 Mgal/day	75 Mgal/day	0.0005 Mgal	1.3 Mgal/min
-	1400	10 to 340 Mgal/day	85 Mgal/day	0.0005 Mgal	1.3 Mgal/min
60"	-	12 to 380 Mgal/day	95 Mgal/day	0.0005 Mgal	1.3 Mgal/min
-	1600	13 to 450 Mgal/day	110 Mgal/day	0.0008 Mgal	1.7 Mgal/min
66"	-	14 to 500 Mgal/day	120 Mgal/day	0.0008 Mgal	2.2 Mgal/min
72"	1800	16 to 570 Mgal/day	140 Mgal/day	0.0008 Mgal	2.6 Mgal/min
78"	-	18 to 650 Mgal/day	175 Mgal/day	0.0010 Mgal	3.0 Mgal/min
-	2000	20 to 700 Mgal/day	175 Mgal/day	0.0010 Mgal	3.0 Mgal/day
84"	-	24 to 800 Mgal/day	190 Mgal/day	0.0011 Mgal	3.2 Mgal/day
-	2200	26 to 870 Mgal/day	210 Mgal/day	0.0012 Mgal	3.4 Mgal/day
90"	-	27 to 910 Mgal/day	220 Mgal/day	0.0013 Mgal	3.6 Mgal/day
-	2400	31 to 1030 Mgal/day	245 Mgal/day	0.0014 Mgal	4.1 Mgal/day

Medium temperature range

- 0 to +80 °C (+32 to +176 °F) for hard rubber (DN 350 to 2400 / 14 to 90")
- -20 to +50 °C (-4 to +122 °F) for polyurethane (DN 25 to 1200 / 1 to 48")
- -20 to +90 °C (-4 to +194 °F) for PTFE (DN 25 to 300 / 1 to 12")

Medium pressure range (nominal pressure)

- EN 1092-1 (DIN 2501)
 - PN 6 (DN 350 to 2400 / 14 to 90")
 - PN 10 (DN 200 to 2400 / 8 to 90")
 - PN 16 (DN 25 to 2000 / 1 to 78")
- EN 1092-1, lap joint flange, stamped plate
 - PN 10 (DN 25 to 300 / 1 to 12")
- ASME B16.5
 - Class 150 (1 to 24")
- AWWA C207
 - Class D (28 to 90")
- AS2129
 - Table E (350 to 1200 / 14 to 48")
- AS4087
 - PN 16 (350 to 1200 / 14 to 48")

Weight

SI units

Compact version (lap joint flanges / welded flanges DN > 300/12")

Weight data in kg											
Nominal diameter		Compact version (including transmitter)									
[mm]	[inch]	EN (DIN)					ASME/AWWA	AS			
25	1"	-	-	-	-	7.3	7.9	-	-	-	-
32	-	-	-	-	-	8.0	-	-	-	-	-
40	1 ½"	-	-	-	-	9.0	7.5	-	-	-	-
50	2"	-	-	-	-	9.4	7.6	-	-	-	-
65	-	-	-	-	-	10.4	-	-	-	-	-
80	3"	-	-	-	-	12.4	12.8	-	-	-	-
100	4"	-	-	-	-	14.4	16.1	-	-	-	-
125	-	-	-	-	-	15.9	-	-	-	-	-
150	6"	-	-	-	-	23.9	24.4	-	-	-	-
200	8"	-	43.4	-	-	44.9	49.6	-	-	-	-
250	10"	-	63.4	-	-	70.7	75.1	-	-	-	-
300	12"	-	68.4	-	-	85.8	100	-	-	-	-
350	14"	77.4	88.4	-	-	107	137	99.4	99.4	-	-
375	15"	-	-	-	-	-	-	105	-	-	-
400	16"	89.4	104	-	-	125	168	124	124	120	-
450	18"	104	119	-	-	150	191	142	142	152	-
500	20"	114	132	-	-	191	228	191	191	182	-
600	24"	155	182	-	-	301	327	283	283	281	-
700	28"	215	274	-	-	335	278	386	386	350	-
750	30"	-	-	-	-	-	338	470	470	458	-
800	32"	289	374	-	-	462	402	569	569	518	-
900	36"	384	476	-	-	582	498	739	739	739	-
1000	40"	493	615	-	-	795	666	854	854	856	-
-	42"	-	-	-	-	-	771	-	-	-	-
1200	48"	707	916	-	-	1314	1035	1368	1368	1368	-
-	54"	-	-	-	-	-	1438	-	-	-	-
1400	-	1126	1482	-	-	1906	-	-	-	-	-
-	60"	-	-	-	-	-	1785	-	-	-	-
1600	-	1521	2197	-	-	2698	-	-	-	-	-
-	66"	-	-	-	-	-	2463	-	-	-	-
1800	72"	2001	2838	-	-	3687	2857	-	-	-	-
-	78"	2777	3508	-	-	4646	3532	-	-	-	-
2000	-	2777	3508	-	-	4646	3532	-	-	-	-
-	84"	-	-	-	-	-	3883	-	-	-	-
2200	-	3065	4172	-	-	-	-	-	-	-	-
-	90"	-	-	-	-	-	4847	-	-	-	-
2400	-	PN 6 3940	PN 10 5035	-	PN 16	-	-	PN 16	-	Table E	-

Transmitter Promag (compact version): 3.4 kg
(Weight data valid without packaging material)

Remote version (lap joint flanges / welded flanges DN > 300/12")

Weight data in kg											
Nominal diameter		Remote version (sensor plus sensor housing without cable)									
[mm]	[inch]	EN (DIN)					ASME/ AWWA		AS		
25	1"	-	-	-	5.3	5.9	-	-	-	-	
32	-	-	-	-	6.0	-	-	-	-	-	
40	1 ½"	-	-	-	7.0	5.5	-	-	-	-	
50	2"	-	-	-	7.4	5.6	-	-	-	-	
65	-	-	-	-	8.4	-	-	-	-	-	
80	3"	-	-	-	10.4	10.8	-	-	-	-	
100	4"	-	-	-	12.4	14.1	-	-	-	-	
125	-	-	-	-	13.9	-	-	-	-	-	
150	6"	-	-	-	21.9	22.4	-	-	-	-	
200	8"	-	41.4	-	42.9	47.6	-	-	-	-	
250	10"	-	61.4	-	68.7	73.1	-	-	-	-	
300	12"	-	66.4	-	83.8	98	-	-	-	-	
350	14"	75.4	86.4	-	103	139	97.4	97.4	-	-	
375	15"	-	102	-	-	-	103	-	-	-	
400	16"	87.4	102	-	121	170	123	118	-	-	
450	18"	103	118	-	149	193	141	151	-	-	
500	20"	112	130	-	190	230	190	180	-	-	
600	24"	156	181	-	300	329	282	280	-	-	
700	28"	214	273	-	334	278	385	349	-	-	
750	30"	-	-	-	-	339	471	457	-	-	
800	32"	288	373	-	461	402	568	517	-	-	
900	36"	383	475	-	581	498	738	738	-	-	
1000	40"	492	614	-	794	666	853	855	-	-	
-	42"	-	-	-	-	771	-	-	-	-	
1200	48"	706	915	-	1313	1035	1367	1367	-	-	
-	54"	-	-	-	-	1438	-	-	-	-	
1400	-	1125	1381	-	1905	-	-	-	-	-	
-	60"	-	-	-	-	1785	-	-	-	-	
1600	-	1520	2196	-	2697	-	-	-	-	-	
-	66"	-	-	-	-	2463	-	-	-	-	
1800	72"	2000	2837	-	3686	2857	-	-	-	-	
-	78"	2776	2837	-	4645	3532	-	-	-	-	
2000	-	2776	3507	-	4645	3532	-	-	-	-	
-	84"	-	-	-	-	3883	-	-	-	-	
2200	-	3064	4171	-	-	-	-	-	-	-	
-	90"	-	-	-	-	4847	-	-	-	-	
2400	-	3939	5034	-	-	-	-	-	-	-	
		PN 6		PN 10		PN 16			PN 16		Table E
Transmitter Promag (remote version): 3.4 kg (Weight data valid without packaging material)											

US units

Compact/Remote version (lap joint flanges / welded flanges DN > 300/12")

Weight data in lbs					
Nominal diameter		Compact version		Remote version	
[mm]	[inch]	ASME/AWWA		ASME/AWWA	
25	1"	ASME / Class 150	17.4	ASME / Class 150	13
32	-		-		-
40	1 ½"		16.5		12.1
50	2"		16.8		12.3
65	-		-		-
80	3"		28.2		23.8
100	4"		35.5		31.1
125	-		-		-
150	6"		53.8		49.4
200	8"		109		105
250	10"		166		161
300	12"		221		216
350	14"		302		306
375	15"		-		-
400	16"		370		274
450	18"		421		425
500	20"		503		507
600	24"		726		725
700	28"	AWWA / Class D	613	AWWA / Class D	612
750	30"		745		746
800	32"		886		885
900	36"		1098		1097
1000	40"		1468		1467
-	42"		1701		1700
1200	48"		2283		2282
-	54"		3171		3170
1400	-		-		-
-	60"		3935		3934
1600	-		-		-
-	66"		5430		5429
1800	72"	6300	6299		
-	78"	7787	7786		
2000	-	7787	-		
-	84"	8561	8560		
2200	-	-	-		
-	90"	10686	10685		
2400	-	-	-		

Transmitter Promag (compact version): 7.5 lbs
 Transmitter Promag (remote version): 13.2 lbs
 (Weight data valid without packaging material)

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