



Supplementary documentation for the Operating Instructions

Proline Promag 10 and 50

Supplementary information for Promag 10L and 50L,
nominal diameters DN 1400 to 2400 (54" to 90")

There are now new nominal diameters for Promag 10L and 50L available. In this documentation you will find the supplementary information to this nominal diameters for the following documentations:

- Proline Promag 10 HART, BA00082D/06/EN/14.11
- Proline Promag 50 HART, BA00046D/06/EN/14.11
- Proline Promag 50 PROFIBUS DP/PA, BA00055D/06/EN/14.11

Recommended flow rate

- Supplementary informationen for Promag 10L: Operating Instruciones BA00082D/06/EN/14.11, page 17 ff.
- Supplementary informationen for Promag 50L: Operating Instruciones BA00046D/06/EN/14.11, page 18 ff. and Operating Instruciones BA00055D/06/EN/14.11, page 18 ff.

Recommended flow rate in SI units

Nominal diameter [mm]	1400	1600	1800	2000	2200	2400
Min./max. full scale value [m ³ /h] (v ≈ 0,3 or 10 m/s)	1700/55000	2200/70000	2850/90000	3400/110000	4100/136000	4800/162000

Recommended flow rate in US units

Nominal diameter [inch]	54"	60"	66"	72"	78"	84"	90"
Min./max. full scale value [Mgal/d] (v ≈ 0,3 or 10 m/s)	9/300	12/380	14/500	16/570	18/650	24/800	27/910

Screw tightening torques

- Supplementary informationen for Promag 10L: Operating Instruciones BA00082D/06/EN/01.11, page 24 ff.
- Supplementary informationen for Promag 50L: Operating Instruciones BA00046D/06/EN/14.11, page 25 ff. and Operating Instruciones BA00055D/06/EN/14.11, page 25 ff.

Tightening torques for EN (DIN)

Nominal diameter [mm]	EN (DIN) pressure rating [bar]	Threaded fasteners	Max. tightening torque [Nm]
1400	PN 6	36 × M 33	430
1400	PN 10	36 × M 39	654
1400	PN 16	36 × M 45	729
1600	PN 6	40 × M 33	440
1600	PN 10	40 × M 45	946

Nominal diameter [mm]	EN (DIN) pressure rating [bar]	Threaded fasteners	Max. tightening torque [Nm]
1600	PN 16	40 × M 52	1007
1800	PN 6	44 × M 36	547
1800	PN 10	44 × M 45	961
1800	PN 16	44 × M 52	1108
2000	PN 6	48 × M 39	629
2000	PN 10	48 × M 45	1047
2000	PN 16	48 × M 56	1324
2200	PN 6	52 × M 39	698
2200	PN 10	52 × M 52	1217
2400	PN 6	56 × M 39	768
2400	PN 10	56 × M 52	1229

Tightening torques for AWWA

Nominal diameter		AWWA	Threaded fasteners	Max. tightening torque	
[mm]	[inch]	Pressure rating		[Nm]	[lbf · ft]
1350	54"	Class D	44 × 1 ¾"	730	538
1500	60"	Class D	52 × 1 ¾"	758	559
1650	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
2150	84"	Class D	64 × 2"	931	687
2300	90"	Class D	68 × 2 ¼"	1048	773

Medium temperature range

- Supplementary informationen for Promag 10L: Operating Instruciones BA00082D/06/EN/14.11, page 84
- Supplementary informationen for Promag 50L: Instruciones BA00046D/06/EN/14.11, page 100 and Operating Instruciones BA00055D/06/EN/14.11, page 121

Medium temperature range with hard rubber lining: 0...+80 °C (+32...+176 °F)

Medium pressure range (nominal pressure)

- Supplementary informationen for Promag 10L: Operating Instruciones BA00082D/06/EN/14.11, page 85
- Supplementary informationen for Promag 50L: Operating Instruciones BA00046D/06/EN/14.11, page 101 ff. and Operating Instruciones BA00055D/06/EN/14.11, page 123 ff.

EN 1092-1 or DIN 2501 (DN 1400...2400):

- PN 6
- PN 10

AWWA (54"...90"):

- Class D

Pressure tightness

- Supplementary informationen for Promag 10L: Operating Instruciones BA00082D/06/EN/14.11, page 86
- Supplementary informationen for Promag 50L: Operating Instruciones BA00046D/06/EN/14.11, page 103 and Operating Instruciones BA00046D/06/EN/14.11, page 124

Resistance of measuring tube lining with hard rubber to partial vacuum (limit values for abs. pressure)

- At fluid temperature from 25 °C (77 °F): 0 mbar abs (0 psi abs)
- At fluid temperature from 50 °C (122 °F): 0 mbar abs (0 psi abs)
- At fluid temperature from 80 °C (176 °F): 0 mbar abs (0 psi abs)

Weight

Weight data of Promag 10L

- Supplementary informationen for Promag 10L: Operating Instruciones BA00082D/06/EN/14.11, page 88 ff.

Compact version, welded flanges

Weight data of Promag 10L in kg											
Nominal diameter		Compact version (including transmitter)									
[mm]	[inch]	EN (DIN)		EN (DIN)		ANSI / AWWA		AS			
–	54"	PN 10	–	PN 6	–	AWWA / Class D	1273	PN 16	–	Table E	–
1400	–		1114		784		–		–		
–	60"		–		–		1594		–		
1600	–		1624		1058		–		–		
1650	66"		–		–		2131		–		
1800	72"		2107		14184		2568		–		
2000	78"		2630		1877		3113		–		
–	84"		–		–		3755		–		
2200	–		3422		2512		–		–		
–	90"		–		–		4797		–		
2400	–		4094		2996		–		–		

Transmitter Promag of compact version: 1,8 kg
(Weight data valid without packaging material)

Remote version, welded flanges

Weight data of Promag 10L in kg											
Nominal diameter		Remot version (sensor plus housing without cable)									
[mm]	[inch]	EN (DIN)		EN (DIN)		ANSI / AWWA		AS			
-	54"	PN 10	-	PN 6	-	AWWA / Class D	1270	PN 16	-	Table E	-
1400	-		1111		781		-		-		
-	60"		-		-		1591		-		
1600	-		1621		1055		-		-		
1650	66"		-		-		2128		-		
1800	72"		2104		1415		2565		-		
2000	78"		2627		1874		3110		-		
-	84"		-		-		3752		-		
2200	-		3419		2509		-		-		
-	90"		-		-		4794		-		
2400	-		4091		2993		-		-		

Transmitter Promag of remote version: 3,1 kg
(Weight data valid without packaging material)

ANSI/AWWA, welded flanges

Weight data of Promag 10L in lb					
Nominal diameter		Compact version		Remote version (without cable)	
[mm]	[inch]	ANSI / AWWA		ANSI / AWWA	
-	54"	AWWA / Class D	2807	AWWA / Class D	2800,4
1400	-		-		-
-	60"		3514,8		3508,2
1600	-		-		-
1650	66"		4698,9		4692,2
1800	72"		5662,4		5655,8
2000	78"		6864,2		6857,6
-	84"		8279,8		8273,2
2200	-		-		-
-	90"		10577		10571

Transmitter Promag of compact version: 3,9 lbs
Transmitter Promag of remote version: 6,8 lbs
(Weight data without packaging material)

Weight data of Promag 50L

- Supplementary informationen for Promag 50L: Operating Instruciones BA00046D/06/EN/14.11, page 105 ff. and Operating Instruciones BA00055D/06/EN/14.11, page 127 ff.

Compact version, welded flanges

Weight data of Promag 50L in kg											
Nominal diameter		Compact version (including Transmitter)									
[mm]	[inch]	EN (DIN)		EN (DIN)		ANSI / AWWA		AS			
-	54"	PN 10	-	PN 6	-	AWWA / Class D	1275	PN 16	-	Table E	-
1400	-		1116		786		-		-		
-	60"		-		-		1596		-		
1600	-		1626		1060		-		-		
1650	66"		-		-		2133		-		
1800	72"		2109		1420		2570		-		
2000	78"		2632		1879		3115		-		
-	84"		-		-		3757		-		
2200	-		3424		2514		-		-		
-	90"		-		-		4799		-		
2400	-		4096		2998		-		-		

Transmitter Promag of compact version: 3,4 kg
(Weight data without packaging material)

Remote version, welded flanges

Weight data of Promag 50L in kg											
Nominal diameter		Remote version (sensor plus sensor housing without cable)									
[mm]	[inch]	EN (DIN)		EN (DIN)		ANSI / AWWA		AS			
-	54"	PN 10	-	PN 6	-	AWWA / Class D	1273	PN 16	-	Table E	-
1400	-		1114		784		-		-		
-	60"		-		-		1594		-		
1600	-		1624		1058		-		-		
1650	66"		-		-		2131		-		
1800	72"		2107		1418		2568		-		
2000	78"		2630		1877		3113		-		
-	84"		-		-		3755		-		
2200	-		3422		2512		-		-		
-	90"		-		-		4797		-		
2400	-		4094		2996		-		-		

Transmitter Promag of remote version: 6 kg
(Weight data without packaging material)

ANSI/AWWA, welded flanges

Weight data of Promag 50L in lb					
Nominal diameter		Compact version		Remote version (without cable)	
[mm]	[inch]	ANSI / AWWA		ANSI / AWWA	
-	54"	AWWA / Class D	2811	AWWA / Class D	1273
-	60"		3519		3515
1650	66"		4703		4699
1800	72"		5667		5662
2000	78"		6869		6864
-	84"		8284		8280
-	90"		10582		10577
Transmitter Promag of compact version: 7,5 lbs Transmitter Promag of remote version: 13 lbs (Weight data without packaging material)					

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