



Level



Pressure



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Additional documentation for Operating Manual

Proline Promag 55

Information on Promag S with hard rubber lining

The following details refer to the Promag S sensor with hard rubber lining and are a supplement to the chapters described in the Operating Instructions BA119D.

3.3.1 Installing the Promag S sensor

Seals

Comply with the following instructions when installing seals:

- Hard rubber lining → additional seals are **always** necessary!

Screw tightening torques

Note the following points:

- The tightening torques listed below are for lubricated threads only.
- Always tighten threaded fasteners uniformly and in diagonally opposite sequence.
- Overtightening the fasteners will deform the sealing faces or damage the seals.
- The tightening torques listed below apply only to pipes not subjected to tensile stress.

Nominal diameter [mm]	EN (DIN) Pressure rating [bar]	Threaded fasteners	Max. tightening torque [Nm] for hard rubber
65 *	PN 16	8 x M 16	32
65	PN 40	8 x M 16	32
80	PN 16	8 x M 16	40
80	PN 40	8 x M 16	40
100	PN 16	8 x M 16	43
100	PN 40	8 x M 20	59
125	PN 16	8 x M 16	56
125	PN 40	8 x M 24	83
150	PN 16	8 x M 20	74
150	PN 40	8 x M 24	104
200	PN 10	8 x M 20	106
200	PN 16	12 x M 20	70
200	PN 25	12 x M 24	104
250	PN 10	12 x M 20	82
250	PN 16	12 x M 24	98
250	PN 25	12 x M 27	150
300	PN 10	12 x M 20	94
300	PN 16	12 x M 24	134
300	PN 25	16 x M 27	153
350	PN 10	16 x M 20	112
350	PN 16	16 x M 24	152

Nominal diameter [mm]	EN (DIN) Pressure rating [bar]	Threaded fasteners	Max. tightening torque [Nm] for hard rubber
350	PN 25	16 x M 30	227
400	PN 10	16 x M 24	151
400	PN 16	16 x M 27	193
400	PN 25	16 x M 33	289
450	PN 10	20 x M 24	153
450	PN 16	20 x M 27	198
450	PN 25	20 x M 33	256
500	PN 10	20 x M 24	155
500	PN 16	20 x M 30	275
500	PN 25	20 x M 33	317
600	PN 10	20 x M 27	206
600 *	PN 16	20 x M 33	415
600	PN 25	20 x M 36	431

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

Nominal diameter [inch]	ANSI Pressure rating [lbs]	Threaded fasteners	Max. tightening torques [lbf · ft] for hard rubber
3"	Class 150	4 x 5/8"	44
3"	Class 300	8 x 3/4"	28
4"	Class 150	8 x 5/8"	31
4"	Class 300	8 x 3/4"	43
6"	Class 150	8 x 3/4"	58
6"	Class 300	12 x 3/4"	52
8"	Class 150	8 x 3/4"	79
10"	Class 150	12 x 7/8"	75
12"	Class 150	12 x 7/8"	98
14"	Class 150	12 x 1"	100
16"	Class 150	16 x 1"	94
18"	Class 150	16 x 1 1/8"	150
20"	Class 150	20 x 1 1/8"	135
24"	Class 150	20 x 1 1/4"	198

Nominal diameter [mm]	JIS Pressure rating	Threaded fasteners	Max. tightening torques [Nm] for hard rubber
65	10K	4 x M 16	55
65	20K	8 x M 16	28
80	10K	8 x M 16	29
80	20K	8 x M 20	42
100	10K	8 x M 16	35
100	20K	8 x M 20	56
125	10K	8 x M 20	60
125	20K	8 x M 22	91
150	10K	8 x M 20	75
150	20K	12 x M 22	81
200	10K	12 x M 20	61
200	20K	12 x M 22	91
250	10K	12 x M 22	100
250	20K	12 x M 24	159
300	10K	16 x M 22	74
300	20K	16 x M 24	138

10.1.8 Operating conditions: Environment

CIP cleaning not possible with hard rubber

SIP cleaning not possible with hard rubber

10.1.9 Operating conditions: Process

Medium temperature range 0 to +80 °C (+32 to +176 °F) for hard rubber (DN 65 to 600 / 2½" to 24")

Pressure tightness (Measuring tube lining)

Nominal diameter [mm]	Measuring tube lining	Resistance of measuring tube lining to partial vacuum (SI units) Limit values for abs. pressure [mbar] at various fluid temperatures	
		25 °C	50 °C
65...600	Hard rubber	0	0

Nominal diameter [inch]	Measuring tube lining	Resistance of measuring tube lining to partial vacuum (US units) Limit values for abs. pressure [psia] at various fluid temperatures	
		77 °F	122 °F
3...24"	Hard rubber	0	0

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