Pressure Measurement

Remote seals for pressure transmitters

SITRANS P320/P420

Quick-release inline seals

Overview

Quick-release inline seals, to DIN 11851 with threaded socket



Quick-release inline seals, with clamp connection

Quick-release inline seals for pressure are available for the following SITRANS P pressure transmitter series:

- P300
- DS III with HART
- DS III with PROFIBUS PA
- DS III with FOUNDATION Fieldbus

Application

The quick-release inline seal is a special design for flowing media and high-viscosity media. Since it is completely integrated in the process pipe, no turbulences, dead volumes or other obstructions to the flow occur. The measured medium flows unhindered through the inline seal and results in self-cleaning of the measuring chamber. Furthermore, the inline seal can be cleaned by a pig.

Design

The quick-release clamp is available in two versions:

- DIN 11851 with threaded socket
- Clamp connection

The inline seal is connected to the pressure transmitter either directly or by way of a capillary.

Function

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The measured pressure is transferred from the diaphragm, mounted on the inner circumference of the inline seal, to the filling liquid and then passes through the capillary to the measuring chamber of the pressure transmitter. The interior of the inline seal and of the capillary, as well as the measuring chamber of the pressure transmitter, are filled gas-free by the filling liquid.

Note:

When operating in the low-pressure range, also during commissioning, it is recommended to use a vacuum-proof pressure transmitter (see Selection and Ordering data).

Technical specifications

Inline seals of quick-release desi	gn for pressure				
Connection	Nominal diameter	Nominal pressure			
Standard to DIN 11851 with	DN 25/32/40	40 PN 40			
thread	DN 50/65/80	PN 25			
Standard Clamp ISO 2852	DN 25/38/51	PN 16			
	DN 63.5/76.1	PN 10			
Standard Clamp DIN 32676,	1, 11/2 inch	PN 25			
row C Tri-clamp	2, 21/2 inch	PN 16			
	3 inch	PN 10			
Standard Clamp DIN 32676,	DN 25/32/40	PN 25			
row A metric	DN 50	PN 16			
	DN 65	PN 10			
Material					
 Main body 	Stainless steel 1.	4404/316L			
 Diaphragm 	Stainless steel 1.	4404/316L			
Capillary					
• Length	Max. 10 m (32.8 ft)				
 Internal diameter 	2 mm (0.079 inch)				
 Minimum bending radius 	150 mm (5.9 inch	ı)			
• Sheath	Spiral protective tube made of stainless steel, mat. No. 1.4404/316L				
Filling liquid	 Food oil (FDA listed) 				
Permissible ambient temperature	Dependent on the pressure trans- mitter and the filling liquid of the remote seal More information can be found in the technical data of the pressure transmitters and in the section "Technical data of filling liquid" in the Technical description to the remote seals				
Weight	Approx. 4 kg (approx. 8.82 lb)				
Certificate and approvals					
Classification according to pres- sure equipment directive (DGRL 2014/68/EU)	For gases of fluid group 1 and liq- uids of fluid group 1; complies with the requirements of article 4, paragraph 1 (appendix 1); assigned to category III, confor- mity evaluation module H by the TÜV Nord				
EHEDG	Complies with EHEDG recommen- dations				

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Pressure Measurement

Remote seals for pressure transmitters SITRANS P320/P420

Quick release inline-seal Flange type design, with flexible capillary tube of directly connected to a • SITRANS P320/P420 transmitter for gauge 7 pressure or absolute pressure (only together with inegative pressure ser- vice), 7MF03. //MF04. order separately 7MF 0 9 3 0 - Click on the Article No. for the online con- figuration in the PIA Life Cycle Portal. 7MF 0 9 3 0 - Click on the Article Ko. for the online con- figuration in the PIA Life Cycle Portal. 7MF 0 9 3 0 - Nominal diameter Nominal pressure Connection standard DIN 11851 with thread DN 32 1BM 120 DN 32 PN 40 10M 120 DN 32 PN 40 10M 120 DN 30 PN 25 1EK 25 m DN 80 PN 25 16K 4 DN 80 PN 25 16K 7 DN 80 PN 25 16K 7 DN 81 PN 10 2FH 2GJ DN 83 PN 16 2BK 2GJ DN 76.1 PN 10 2GJ DN 11/* PN 25 3MV 3NV DN 12/* PN 16 3MV 3NV DN 25 PN 16 3MV 3NV DN 11/* PN 25 4BL DN 12/* PN 16 3MV 3NV	Order code		
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↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal. Image: Configuration in the PIA Life Cycle Portal. 00 Nominal diameter Nominal pressure Connection standard DIN 11851 with thread DN 25 NM 1BM Without capillary tube, direct mount straight Connection (for gauge pressure) Connection (for gauge pressure) 00 DN 32 PN 40 1CD 1m 10 DN 40 PN 40 1DM 2m 1m DN 50 PN 25 1EK 2,5 m 11 DN 80 PN 25 1GK 3m 13 DN 80 PN 16 2BK 6 m 17 DN 83 PN 16 2CQ 7 m 18 DN 83 PN 16 2FH 8 m 20 DN 76,1 PN 10 2GJ 7 m 18 DN 17' PN 25 3 KV 9 m 21 DN 18' PN 16 3 MV 10 m 22 DN 14'' PN 25 3 KV 10 m 22 DN 76,1 PN 10 3 MV 10 m 22 DN 12'' PN 16 3 MV 20 <td< td=""><td colspan="3">7 M F 0 9 3 0 -</td></td<>	7 M F 0 9 3 0 -		
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DN 40 PN 25 4DL DN 50 PN 16 4EJ			
DN 50 PN 16 4 E J			
Other version 9AA H1Y			

Pressure Measurement

Remote seals for pressure transmitters SITRANS P320/P420

Selection and Ordering data	Order code
Further designs	
Add "-Z" to Article No. and specify Order code.	
Factory certificates	
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2	C11
Inspection certificate to EN 10204-3.1 - material of body and wetted parts	C12
Inspection certificate (EN 10204-3.1) - PMI test of pressure containing and wetted parts	C15
Certificate of FDA-approved fill oil (to EN10204-2.2)	C17
Functional safety (SIL2/3) Devices suitable for use according to IEC 61508 and IEC 61511 (Includes SIL conformity declaration)	C20
Negative pressure services	
Negative pressure service (for gauge and absolute pressure transmitters)	D81
Extended negative pressure service (for gauge and absolute pressure transmitters)	D85
Capillary connection	
Single-side mounted at differential pressure transmit- ters at high-side	S03
Single-side mounted at differential pressure transmitters at low-side	S04
cooling element	S08
Capillary coating	
PE protective tube	
1 m	S10
1,6 m	S11
2 m	S12
2,5 m	S13
3 m	S14
4 m	S15
5 m	S16 S17
6 m 7 m	S17
8 m	S19
9 m	S20
10 m	S21
PTFE protective tube	
1 m	S40
1,6 m	S41
2 m	S42
2,5 m	S43
3 m 4 m	S44 S45
5 m	S45 S46
6 m	S47
7 m	S48
8 m	S49
9 m	S50
10 m	S51

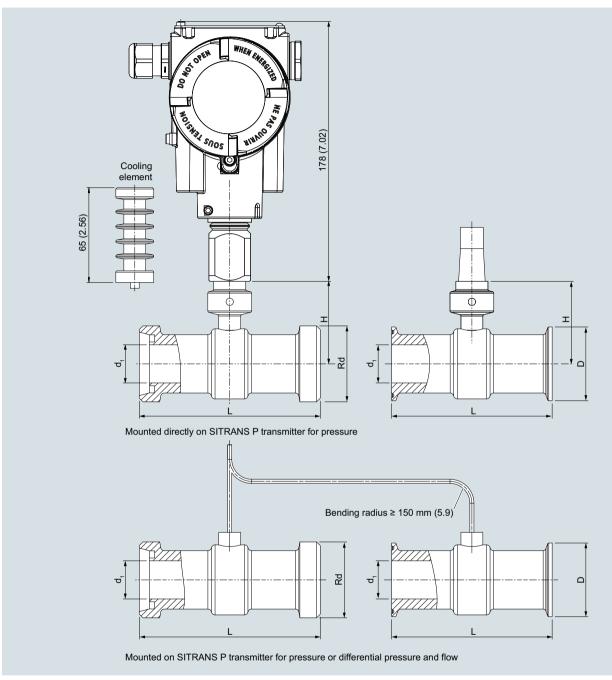
Selection and Ordering data	Order code
Further designs	
Add "-Z" to Article No. and specify Order code.	
PVC protective tube	
1 m	S70
1,6 m	S71
2 m	S72
2,5 m	S73
3 m	S74
4 m	S75
5 m	S76
6 m	S77
7 m	S78
8 m	S79
9 m	S80
10 m	S81
Customer-specific tube length	
Customer-specific tube length (specify in plain text)	Y44
Specification of process conditions ¹⁾	
Ambient temperature range	
• -10 +50 °C (14 +122 °F) preset	D66
• -40 +50 °C (-40 +122 °F)	D67
• -10 +85 °C (14 +185 °F)	D68
Process temperature min °C/(°F)/max °C/(°F)	Y50
100633 temperature min Ο/(τ //max Ο/(Γ)	150

 See also "Specification of process conditions for selection and ordering data", page 1/338.

Remote seals for pressure transmitters SITRANS P320/P420

Quick-release inline seals

Dimensional drawings



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Quick-release inline seal, dimensions in mm (inch)

Pressure Measurement

Remote seals for pressure transmitters SITRANS P320/P420

Quick-release inline seals

Clamp-on seals for pipes to EN 10357 (DIN 11851)

				Food connections			
				DIN 11851		DIN 32676	
	Length	Inner diameter	Connection height	Nominal pressure	Round thread connection to DIN 11851	Nominal pressure	Clamp connec- tion to DIN 32676
Nominal diameter	L (mm)	di (mm)	h (mm)		Thread Rd		D (mm)
DN 10	96	10	27.5	PN 40	28 x 1/8"	PN 16	34
DN 15	150	16	12	PN 40	34 x 1/8"	PN 16	34
DN 25	110	26	21	PN 40	52 x 1/6"	PN 16	50.5
DN 32	110	32	26	PN 40	58 x 1/6"	PN 16	50.5
DN 40	110	38	28.5	PN 40	65 x 1/6"	PN 16	50.5
DN 50	110	50	34	PN 25	78 x 1/6"	PN 16	64
DN 65	110	66	42	PN 25	95 x 1/6"	PN 10	91
DN 80	60	81	47.5	PN 25	110 x 1/4"	PN 10	106
DN 100	60	100	60	PN 25	130 x 1/4"	PN 10	119

Clamp-on seals for pipes to BS 4825 Part 3 and O.D. Tube (suited for pipes to ASME-BPE)

					Food connection				
					IDF to ISO 28	IDF to ISO 2853		Clamp connection to ISO 2852	
		Length	Inner diameter	Connection height	Nominal pressure	IDF-Thread to ISO 2853	Nominal pressure	Clamp connec- tion to ISO 2852	
Nominal	diameter	L (mm)	di (mm)	h (mm)		IDF-thread (Tr)		D (mm)	
1 inch	25.4 mm	110	22.2	21	PN 40	37 x 3.175	PN 16	50.5	
1½ inch	38 mm	110	34.8	28.5	PN 40	50 x 3.175	PN 16	50.5	
2 inch	51 mm	110	47.8	34	PN 25	64 x 3.175	PN 16	64	
1½ inch	63.5 mm	110	60.3	38	PN 25	77.5 x 3.175	PN 16	77.5	
3 inch	76.1 mm	60	72.9	44.5	PN 25	91 x 3.175	PN 10	91	
4 inch	101.6 mm	60	97.6	59.5	PN 25	118 x 3175	PN 10	119	