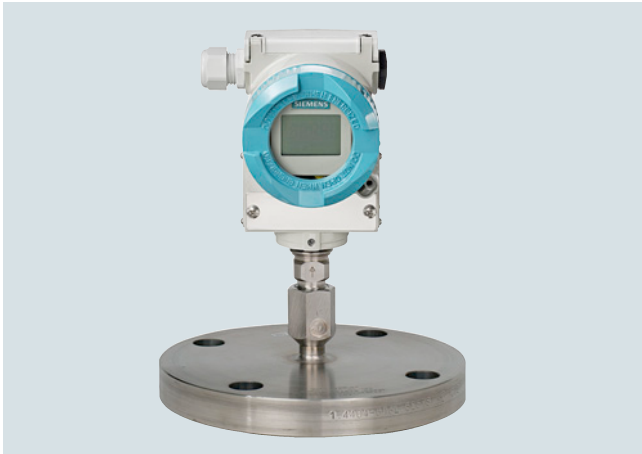


Diaphragm seals of flange design mounted directly on transmitter

Overview



Diaphragm seals of flange design, directly fitted on a pressure transmitter for pressure

Technical specifications

Diaphragm seals (flange design) for pressure and absolute pressure, directly fitted on a transmitter

Nominal diameter	Nominal pressure
• DN 50	PN 10/16/25/40, PN 100
• DN 80	PN 10/16/25/40, PN 100
• DN 100	PN 10/16, PN 25/40
• 2 inch	Class 150, class 300, class 400/600, class 900/1500
• 3 inch	Class 150, class 300, class 600
• 4 inch	Class 150, class 300, class 400
Sealing surface	
• For stainless steel, mat. No. 1.4404/316L	To EN 1092-1, form B1 or ASME B16.5 RF 125 ... 250 AA
• For the other materials	Smooth to EN 1092-1, form B2 or ASME B16.5 RFSF
Materials	
• Main body	Stainless steel mat. no. 1.4404/316L
• Wetted parts	Stainless steel mat. no. 1.4404/316L
	<ul style="list-style-type: none"> • Without coating • PTFE coating • ECTFE coating (for vacuum on request) • PFA coating
	Monel 400, mat. No. 2.4360
	Hastelloy C276, mat. No. 2.4819
	Hastelloy C4, mat. No. 2.4602
	Hastelloy C22, mat. No. 2.4602
	Tantalum
	Titanium, mat. No. 3.7035
	Nickel 201
	Duplex 2205, mat. no. 1.4462
	Stainless steel 316L, gold plated, thickness approx. 25 µm
• Capillary	Stainless steel, mat. No. 1.4404/316L
• Sealing material at the transmitter connection	Copper

Maximum pressure	See above and the technical data of the transmitter
Tube length	<ul style="list-style-type: none"> • Without tube • 50 mm (1.97 inch) • 100 mm (3.94 inch) • 150 mm (5.91 inch) • 200 mm (7.87 inch)
Capillary	
• Length	Max. 10 m (32.8 ft), longer lengths on request
• Internal diameter	2 mm (0.079 inch)
• Minimum bending radius	150 mm (5.9 inch)
Filling liquid	<ul style="list-style-type: none"> • Silicone oil M5 • Silicone oil M50 • High-temperature oil • Halocarbon oil (for measuring O₂) • Food oil (FDA listed)
Max. recommended process temperature	170 °C (338 °F)
Permissible ambient temperature	Dependent on the pressure transmitter 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 (8.82 lb)

Certificate and approvals

Classification according to pressure equipment directive (DGRL 2014/68/EU)	For gases of fluid group 1 and liquids of fluid group 1; complies with requirements of article 4, paragraph 3 (sound engineering practice)
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Pressure Measurement

Remote seals for pressure transmitters
SITRANS P300, P DS III, P410, P500

1

Diaphragm seals of flange design mounted directly on transmitter

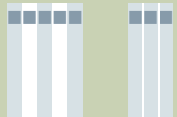
Selection and Ordering data		Article No. Ord. code		Selection and Ordering data		Article No. Ord. code	
Diaphragm seal		7MF4910-		Diaphragm seal		7MF4910-	
Directly fitted to a pressure transmitter SITRANS P for pressure 7MF2033-...; 7MF403-... and 7MF423-... together with Order code "V01" (Negative pressure service) and 7MF802-... ¹⁾ ; must be ordered separately				Directly fitted to a pressure transmitter SITRANS P for pressure 7MF2033-...; 7MF403-... and 7MF423-... together with Order code "V01" (Negative pressure service) and 7MF802-... ¹⁾ ; must be ordered separately			
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.				Wetted parts materials			
Process connection				<ul style="list-style-type: none"> Stainless steel 316L <ul style="list-style-type: none"> - without coating - with PTFE coating - with ECTFE coating^{2) 3)} - with PFA coating³⁾ Monel 400, mat. No. 2.4360 Hastelloy C276, mat. No. 2.4819 Hastelloy C4, mat. No. 2.4602 Hastelloy C22, mat. No. 2.4602 Tantalum Titanium, mat. No. (max. 150 °C (302 °F)) Nickel 201 (max. 260 °C (500 °F)) Duplex 2205, W.-Nr. 1.4462 Stainless steel 316L, gold plated, thickness approx. 25 µm 			
<ul style="list-style-type: none"> Vertical (pressure transmitter upright) Horizontal 		0 2		Tube length			
Nominal diameter and nominal pressure				<ul style="list-style-type: none"> Without tube 			
DN 25 PN 10/16/25/40 DN 40 PN 63/100/160 DN 40 PN 10/16/25/40 DN 40 PN 63/100 DN 40 PN 160 • DN 50 PN 10/16/25/40 DN 50 PN 100 • DN 80 PN 10/16/25/40 DN 80 PN 100 • DN 100 PN 10/16 DN 100 PN 25/40 1 inch class 150 1 inch class 300 1 inch class 400/600 1 inch class 900/1500 1½ inch class 150 1½ inch class 300 1½ inch class 400/600 1½ inch class 900/1500 • 2 inch Class 150 2 inch Class 300 2 inch Class 400/600 2 inch Class 900/1500 • 3 inch Class 150 3 inch Class 300 3 inch Class 600 • 4 inch Class 150 4 inch Class 300 4 inch Class 400 JIS DN 50 10 K 316L JIS DN 50 20 K 316L JIS DN 80 10 K 316L JIS DN 80 20 K 316L		Z J 0 A Z J 0 B Z J 0 C Z J 0 D Z J 0 E A B D E G H Z J 6 A Z J 6 B Z J 6 C Z J 6 D Z J 6 E Z J 6 F Z J 6 G Z J 6 H L M N P Q R S T U V Z J 7 A Z J 7 B Z J 7 C Z J 7 D Z J 1 Y		A E 0 F D G J U V 0 K L 0 M 0 Q S 0 0 Z 8 K 1 Y			
Smooth sealing surface to DIN 1092-01, form B1 or B2, or to ASME B16.5 125 ... 250 AA or RFSF Other version Add Order code and plain text: Nominal diameter: ...; Nominal pressure: ...				Other version: Add Order code and plain text: Wetted parts materials: ..., Tube length: ...			

Pressure Measurement

Remote seals for pressure transmitters SITRANS P300, P DS III, P410, P500

Diaphragm seals of flange design mounted directly on transmitter

1

Selection and Ordering data	Article No. Ord. code	Selection and Ordering data	Order code																																																																																																	
Diaphragm seal Directly fitted to a pressure transmitter SITRANS P for pressure 7MF2033-...; 7MF403-... and 7MF423-... together with Order code "V01" (Negative pressure service) and 7MF802-... ¹⁾ ; must be ordered separately	7MF4910 - 	Further designs Please add "-Z" to Article No. and specify Order code.																																																																																																		
Customer-specific tubus length Specify customer-specific length with Y44, see Order Code		Customer-specific tubus length Select range, enter desired length in plain text (No entry = standard length)	Y44																																																																																																	
<ul style="list-style-type: none"> Wetted parts materials: Stainless steel without foil <table border="1"> <thead> <tr> <th>Range</th> <th>Standard length</th> <th></th> </tr> </thead> <tbody> <tr> <td>20 ... 50 mm (0.79 ... 1.97")</td> <td>50 mm (1.97")</td> <td>A 1</td> </tr> <tr> <td>51 ... 100 mm (2.01 ... 3.94")</td> <td>100 mm (3.94")</td> <td>A 2</td> </tr> <tr> <td>101 ... 150 mm (3.98 ... 5.91")</td> <td>150 mm (5.91")</td> <td>A 3</td> </tr> <tr> <td>151 ... 200 mm (5.94 ... 7.87")</td> <td>200 mm (7.87")</td> <td>A 4</td> </tr> <tr> <td>201 ... 250 mm (7.91 ... 9.84")</td> <td>250 mm (9.84")</td> <td>A 5</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Wetted parts materials: Stainless steel coated with ECTFE <table border="1"> <thead> <tr> <th>Range</th> <th>Standard length</th> <th></th> </tr> </thead> <tbody> <tr> <td>20 ... 50 mm (0.79 ... 1.97")</td> <td>50 mm (1.97")</td> <td>F 1</td> </tr> <tr> <td>51 ... 100 mm (2.01 ... 3.94")</td> <td>100 mm 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Filling liquid <ul style="list-style-type: none"> Silicone oil M5 Silicone oil M50 High-temperature oil Halocarbon oil (for measuring O₂)⁴⁾ Food oil (FDA listed) Other version Add Order code and plain text: Filling liquid: ...	1 2 3 4 7 9		M 1 Y																																																																																																	
Oil- and grease-free cleaned version Oil- and grease-free cleaned and packed version, not for oxygen application, only in conjunction with halocarbon oil fill fluid, certified by certificate acc. to EN 10204-2.2		Oil- and grease-free cleaned version Oil- and grease-free cleaned and packed version, only for oxygen application, only inert fill fluid may be used. Max. temperature: 60 °C (140 °F), max. pressure 50 bar (725 psi), only in connection with halocarbon oil, certified by certificate acc. to EN 10204-2.2	C10																																																																																																	
Quality Inspection Certificate (5-point characteristic curve test) according to IEC 60770-2		Quality Inspection Certificate (5-point characteristic curve test) according to IEC 60770-2	C11																																																																																																	
Inspection certificate to EN 10204, section 3.1		Inspection certificate to EN 10204, section 3.1	C12																																																																																																	
2.2 Certificate of FDA approval of fill oil Only in conjunction with "Food-grade oil" fill liquid (FDA listed)		2.2 Certificate of FDA approval of fill oil Only in conjunction with "Food-grade oil" fill liquid (FDA listed)	C17																																																																																																	
Functional safety certificate ("SIL 2") to IEC 61508 (Only in conjunction with the Order code "C20" in the case of SITRANS P DSIII transmitter)		Functional safety certificate ("SIL 2") to IEC 61508 (Only in conjunction with the Order code "C20" in the case of SITRANS P DSIII transmitter)	C20																																																																																																	
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Certification acc. to NACE MR-0175 Includes acceptance test certificate 3.1 according to EN 10204 (only for wetted parts made of stainless steel 1.4404/316L and Hastelloy C276)		Certification acc. to NACE MR-0175 Includes acceptance test certificate 3.1 according to EN 10204 (only for wetted parts made of stainless steel 1.4404/316L and Hastelloy C276)	D07																																																																																																	
Certification acc. to NACE MR-0103 Includes acceptance test certificate 3.1 according to EN 10204 (only for wetted parts made of stainless steel 1.4404/316L and Hastelloy C276)		Certification acc. to NACE MR-0103 Includes acceptance test certificate 3.1 according to EN 10204 (only for wetted parts made of stainless steel 1.4404/316L and Hastelloy C276)	D08																																																																																																	
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Epoxy painting Not possible with negative pressure service Color: transparent, coverage: front and rear of the remote seal, capillary(ies) or connecting tube, process connection of the transmitter. With transmitters 7MF40.. and 7MF42.., only possible with process connection G½B according to EN 837-1.		Epoxy painting Not possible with negative pressure service Color: transparent, coverage: front and rear of the remote seal, capillary(ies) or connecting tube, process connection of the transmitter. With transmitters 7MF40.. and 7MF42.., only possible with process connection G½B according to EN 837-1.	E15																																																																																																	

1) With 7MF802-... and the measuring cells Q, S, T and U also order negative pressure service.

2) For vacuum on request.

3) Only for use in non-hazardous atmospheres.

4) Oil- and grease-free cleaning to DIN 25410, level 2 and packaging included in the scope of delivery. Refer to "Further designs" C10 and E10.

Pressure Measurement

Remote seals for pressure transmitters
SITRANS P300, P DS III, P410, P500

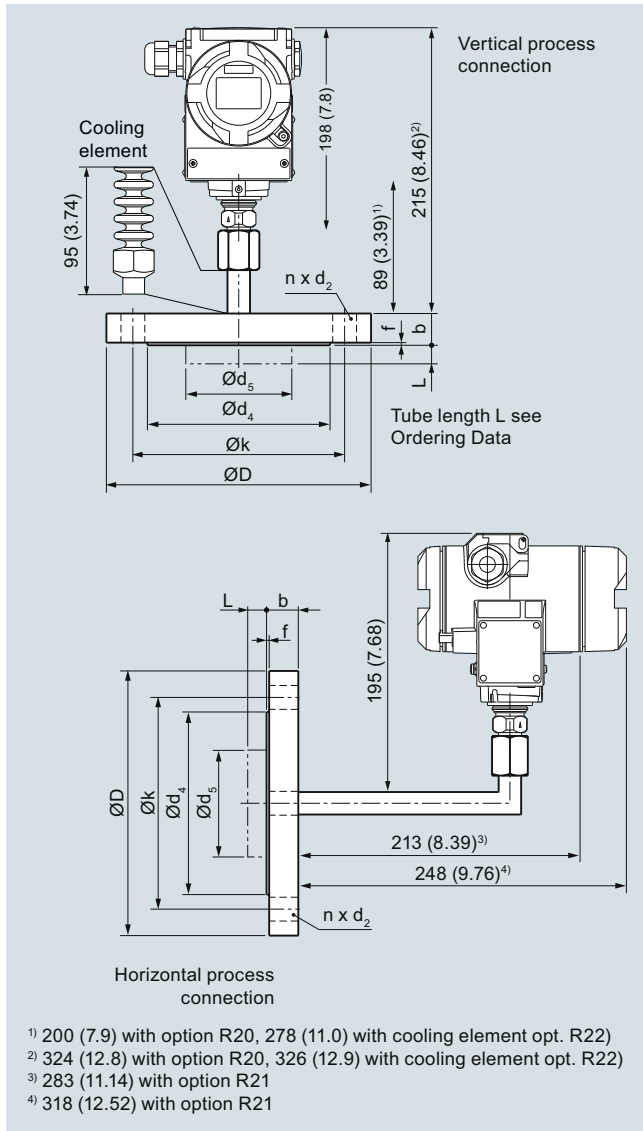
Diaphragm seals of flange design mounted directly on transmitter

1

Selection and Ordering data	Order code	Selection and Ordering data	Order code
Further designs		Further designs	
Please add "-Z" to Article No. and specify Order code.		Please add "-Z" to Article No. and specify Order code.	
Sealing surface smooth, form B2 or RFSF (Stainless steel diaphragm) previously DIN 2501, form E	J11	Elongated pipe 200 mm instead of 89 mm, max. medium temperature 300 °C, observe the maximum permissible media temperature of the filling liquid.	R20
Sealing surface groove, EN 1092-1, form D instead of sealing surface B1 (only for wetted parts made of stainless steel 316L)	J14	Elongated pipe elbow 200 mm instead of 130 mm, max. medium temperature 300 °C, observe the maximum permissible media temperature of the filling liquid.	R21
Sealing surface with spring according to EN 1092-1, form C, (previously DIN 2512, form F) in stainless steel 316L DN 25 DN 40 DN 50 DN 80 DN 100 DN 125	J30 J31 J32 J33 J34 J35	Cooling element max. medium temperature 300 °C, observe the maximum permissible media temperature of the filling liquid.	R22
Sealing surface with male face according to EN 1092-1, form E (previously DIN 2512, form V13) in stainless steel 316L DN 25 DN 40 DN 50 DN 80 DN 100 DN 125	J40 J41 J42 J43 J44 J45	Negative pressure service for use in low-pressure range for transmitters for • gauge and absolute pressure from the pressure series	V01
Sealing surface with female face according to EN 1092-1, form F (previously DIN 2512, form R13) in stainless steel 316L DN 25 DN 40 DN 50 DN 80 DN 100 DN 125	J50 J51 J52 J53 J54 J55	Extended negative pressure service for use in low-pressure range for transmitters for • gauge and absolute pressure from the pressure series	V51
Sealing surface B1 or ASME B16.5 RF 125 ... 250 AA Instead of sealing surface B2 and RFSF (Only for wetted parts in Hastelloy C276 (2.4819), Tantal and Duplex 2205 (1.4462) and for sizes 2", 3", DN 50 and DN 80)	J12		
Sealing surface RJF (groove, previously RTJ) ASME B16.5 instead of sealing surface ASME B16.5 RF 125 ... 250 AA (only for wetted parts made of stainless steel 316L)	J24		

Diaphragm seals of flange design mounted directly on transmitter

Dimensional drawings



Diaphragm seals of flange design, direct connection to a SITRANS P pressure transmitter (process connection vertical (top) and horizontal (bottom)), dimensions in mm (inch)

Connection to EN 1092-1

Nom. diam.	Nom. press.	b	D	d ₂	d ₄	d ₅	d _M	f	k	n
		mm	mm	mm	mm	mm	mm	mm	mm	
DN 50	PN 10/16/25/40	20	165	18	102	48.3	45 ¹⁾	2	125	4
	PN 100	28	195	26	102	48.3	45 ¹⁾	2	145	4
DN 80	PN 10/16/25/40	24	200	18	138	76	72 ¹⁾	2	160	8
	PN 100	32	230	26	138	76	72 ¹⁾	2	180	8
DN 100	PN 10/16	20	220	18	158	94	89-2	2	180	8
	PN 25/40	24	235	22	162	94	89	2	190	8

Connection to ASME B16.5

Nom. diam.	Nom. press.	b	D	d ₂	d ₄	d ₅	d _M	f	k	n
lb/sq.in.	mm	mm	mm	mm	mm	mm	mm	mm	mm	
(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	
2 inch	150	19.5	150	20	92	48.3	45 ¹⁾	2	120.5	4
		(0.77)	(5.91)	(0.79)	(3.62)	(1.9)	(1.77) ¹⁾	(0.08)	(4.74)	
	300	22.7	165	20	92	48.3	45 ¹⁾	2	127	8
		(0.89)	(6.5)	(0.79)	(3.62)	(1.9)	(1.77) ¹⁾	(0.08)	(5)	
400/600	32.4	165	20	92	48.3	45 ¹⁾	7	127	8	
	(1.28)	(6.5)	(0.79)	(3.62)	(1.9)	(1.77) ¹⁾	(0.28)	(5)		
900/1500	45.1	215	26	92	48.3	45 ¹⁾	7	165	8	
	(1.78)	(8.46)	(1.02)	(3.62)	(1.9)	(1.77) ¹⁾	(0.28)	(6.5)		
3 inch	150	24.3	190	20	127	76	72 ²⁾	2	152.5	4
		(0.96)	(7.48)	(0.79)	(5)	(3)	(2.83) ²⁾	(0.08)	(6)	
	300	29	210	22	127	76	72 ²⁾	2	168.5	8
		(1.14)	(8.27)	(0.87)	(5)	(3)	(2.83) ²⁾	(0.08)	(6.63)	
600	38.8	210	22	127	76	72 ²⁾	7	168.5	8	
	(1.53)	(8.27)	(0.87)	(5)	(3)	(2.83) ²⁾	(0.28)	(6.63)		
4 inch	150	24.3	230	20	158	94	89	2	190.5	8
		(0.96)	(9.06)	(0.79)	(6.22)	(3.69)	(3.50)	(0.08)	(7.5)	
	300	32.2	255	22	158	94	89	2	200	8
		(1.27)	(10.04)	(0.79)	(6.22)	(3.69)	(3.50)	(0.08)	(7.87)	
400	42	255	26	158	94	89	7	200	8	
	(1.65)	(10.04)	(1.02)	(6.22)	(3.69)	(3.50)	(0.28)	(7.87)		

d: Inside diameter of gasket according to EN 1092-1/ASME B16.5

d_M: Effective diaphragm diameter

¹⁾ 59 mm = 2.32 inch with tube length L = 0

²⁾ 89 mm = 3½ inch with tube length L = 0