

Overview



Diaphragm seals of sandwich design

Technical specifications

Diaphragm seals of sandwich design

Nominal diameter	Nominal pressure
Connecting standard EN 1092-1	
<ul style="list-style-type: none"> DN 25, DN 40, DN 50, DN 65, DN 80, DN 100, DN 125 	PN 16 ... PN 400
Connecting standard ASME B16.5	
<ul style="list-style-type: none"> 1 inch, 1½ inch, 2 inch, 2½ inch, 3 inch, 4 inch, 5 inch 	Class 150 ... class 2500
Connecting standard J.I.S.	
<ul style="list-style-type: none"> DN 25, DN 40, DN 50, DN 65, DN 80, DN 100, DN 125 	10K ... 63K
Sealing surface	
<ul style="list-style-type: none"> For stainless steel, mat. No. 1.4404/316L For the other materials 	To EN 1092-1, form B1 or ASME B16.5 RF 125 ... 250 AA To EN 1092-1, form B2 or ASME B16.5 RFSF
Materials	
<ul style="list-style-type: none"> Main body Wetted parts 	Stainless steel mat. no. 1.4404/316L 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
<ul style="list-style-type: none"> Capillary 	Stainless steel, mat. No. 1.4571/316Ti
<ul style="list-style-type: none"> Sheath 	Spiral protective tube made of stainless steel, mat. No. 1.4404/316L

Sealing material in the process flanges

- For pressure transmitters, absolute pressure transmitters and low-pressure applications
Copper
- For other applications
Viton

Maximum pressure

See above and the technical data of the pressure transmitters

Tube length

Without tube as standard (tube available on request)

Capillary

- Length
Max. 10 m (32.8 ft), longer lengths on request
- Internal diameter
max. 2 mm (0.079 inch)
- Minimum bending radius
150 mm (5.9 inch)

Filling liquid

Silicone oil M5
Silicone oil M50
High-temperature oil
Halocarbon oil (for measuring O₂)
Food grade oil (FDA listed)

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)

Pressure Measurement

Remote seals for pressure transmitters
SITRANS P320/P420

1

Diaphragm seals of sandwich design with flexible capillary

Selection and Ordering data

Article No.

Order code

Diaphragm seal

Sandwich type design, with flexible capillary tube, connected with flexible capillary tube to a

- SITRANS P320/P420 transmitter for gauge pressure or absolute pressure (only together with negative pressure service), 7MF03../7MF04.. order separately
Scope of delivery: 1 off
- SITRANS P320/P420 transmitter for absolute pressure, 7MF03../7MF04.. order separately, Scope of delivery: 1 off
- SITRANS P320/P420 transmitter for differential pressure and flow, 7MF03../7MF04.. order separately, Scope of delivery: 2 off

Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Nominal diameter Nominal pressure

Connecting standard EN 1092-1

(DN 25, DN 40 and DN 50 recommended only for pressure transmitters)

DN 25	PN 16 ... 400	0BQ
DN 40	PN 16 ... 400	0DQ
DN 50	PN 16 ... 400	0EQ
DN 65	PN 16 ... 400	0FQ
DN 80	PN 16 ... 400	0GQ
DN 100	PN 16 ... 400	0HQ
DN 125	PN 16 ... 400	0JQ

Connecting standard ASME B16.5

(1 inch, 1½ inch and 2 inch recommended only for pressure transmitters)

1 inch	class 150 ... 2500	1KX
1½ inch	class 150 ... 2500	1LX
2 inch	class 150 ... 2500	1MX
2½ inch	class 150 ... 2500	1NX
3 inch	class 150 ... 2500	1PX
4 inch	class 150 ... 2500	1QX
5 inch	class 150 ... 2500	1RX

Connecting standard J.I.S.

(DN 25, DN 40 and DN 50 recommended only for pressure transmitters)

DN 25	10K ... 63K	2BW
DN 40	10K ... 63K	2DW
DN 50	10K ... 63K	2EW
DN 65	10K ... 63K	2FW
DN 80	10K ... 63K	2GW
DN 100	10K ... 63K	2HW
DN 125	10K ... 63K	2JW

Other version
Add Order code and plain text

Length of capillary

1 m	10
1,6 m	11
2 m	12
2,5 m	13
3 m	14
4 m	15
5 m	16
6 m	17
7 m	18
8 m	20
9 m	21
10 m	22

Selection and Ordering data

Article No.

Order code

Diaphragm seal

Sandwich type design, with flexible capillary tube, connected with flexible capillary tube to a

- SITRANS P320/P420 transmitter for gauge pressure or absolute pressure (only together with negative pressure service), 7MF03../7MF04.. order separately
Scope of delivery: 1 off
- SITRANS P320/P420 transmitter for absolute pressure, 7MF03../7MF04.. order separately, Scope of delivery: 1 off
- SITRANS P320/P420 transmitter for differential pressure and flow, 7MF03../7MF04.. order separately, Scope of delivery: 2 off

- 11 m (only for 7MF0802)
- 12 m (only for 7MF0802)
- 13 m (only for 7MF0802)
- 14 m (only for 7MF0802)
- 15 m (only for 7MF0802)

Other version
Add Order code and plain text

Filling liquid

- Silicone oil M5
- Silicone oil M50
- High-temperature oil
- Halocarbon oil
- Food-grade oil (FDA listed)
- Other version
Add Order code and plain text

Wetted parts materials

- Stainless steel 316L
- Without coating
- With PFA coating
- With PTFE coating
- With ECTFE coating
- Monel 400, 2.4360
- Hastelloy C276, 2.4819
- Tantalum
- Titanium, 3.7035
- Nickel 201
- Diaphragm Duplex, 1.4462
- Diaphragm plus flange Duplex, 1.4462
- Stainless steel 316L with gold coating
- Hastelloy C4, 2.4610
- Hastelloy C22, 2.4602

Other version
Add Order code and plain text

Extension length

- without
- 50 mm (2")
- 100 mm (4")
- 150 mm (6")
- 200 mm (8")
- 250 mm (10")
- Other version
Add Order code and plain text

Diaphragm seals of sandwich design with flexible capillary

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Customer-specific extension length				Wetted parts Hastelloy C276																																			
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Pressure Measurement

Remote seals for pressure transmitters
SITRANS P320/P420

Diaphragm seals of sandwich design with flexible capillary

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Selection and Ordering data	Order code	Selection and Ordering data	Order code
Further designs		Further designs	
Add "-Z" to Article No. and specify Order code.		Add "-Z" to Article No. and specify Order code.	
Factory certificates		Sealing surface with recess to EN1092-1, form F (wetted parts 316L only)	
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2	C11	• DN 25	M82
Inspection certificate to EN 10204-3.1 - material of body and wetted parts	C12	• DN 40	M83
Manufacturer's declaration acc. to NACE (MR 0103-2012 and MR 0175-2009) (only together with seal diaphragm made of Hastelloy and stainless steel)	C13	• DN 50	M84
Inspection certificate (EN 10204-3.1) - PMI test of pressure containing and wetted parts	C15	• DN 80	M85
Certificate of FDA-approved fill oil (to EN10204-2.2)	C17	• DN 100	M86
Functional safety (SIL2/3) Devices suitable for use according to IEC 61508 and IEC 61511 (Includes SIL conformity declaration)	C20	• DN 125	M87
Accessories		Capillary connection (only for 7MF0800)	
Spark arrestor (for gauge and absolute pressure transmitters)	D61	Single-side mounted at differential pressure transmitters at high-side	S03
Spark arrestor (for differential pressure and level transmitters)	D62	Single-side mounted at differential pressure transmitters at low-side	S04
Low-temperature version (for Silicon Oil M50 only)	D67	Capillary coating	
Negative pressure services		PE protective tube	
Negative pressure service (for gauge and absolute pressure transmitters)	D81	1 m	S10
Negative pressure service (for differential pressure transmitters)	D83	1,6 m	S11
Extended negative pressure service (for gauge and absolute pressure transmitters) (only 7MF0800)	D85	2 m	S12
Extended negative pressure service (for differential pressure transmitters)	D88	2,5 m	S13
General product approvals without explosion proof approvals		3 m	S14
Oil-and grease-free cleaned version (for O ₂ -appl. including certificate EN10204-2.2 (only with fill fluid Halocarbon oil max. temperature 60 °C and max. pressure 50 bar)	E80	4 m	S15
Oil-and grease-free cleaned version (not for O ₂ -appl. including certificate EN10204-2.2 (only with fill fluid Halocarbon oil)	E87	5 m	S16
Sealing surface		6 m	S17
Sealing surface smooth, form B2/EN1092-1 resp. RFSF/ANSI B16.5 (wetted parts 316L only)	M50	7 m	S18
Sealing surface groove to EN1092-1, form D (instead of sealing surface B1, wetted parts 316L only)	M54	8 m	S19
Sealing surface RJF (groove) to ASME B16.5 (instead of sealing surface RF 125...250AA, wetted parts 316L only)	M64	9 m	S20
Sealing surface with tongue to EN1092-1, form C (wetted parts 316L only)		10 m	S21
• DN 25	M70	11 m (only for 7MF0802)	S22
• DN 40	M71	12 m (only for 7MF0802)	S23
• DN 50	M72	13 m (only for 7MF0802)	S24
• DN 80	M73	14 m (only for 7MF0802)	S25
• DN 100	M74	15 m (only for 7MF0802)	S26
• DN 125	M75	PTFE protective tube	
Sealing surface with spigot to EN1092-1, form E (wetted parts 316L only)		1 m	S40
• DN 25	M76	1,6 m	S41
• DN 40	M77	2 m	S42
• DN 50	M78	2,5 m	S43
• DN 80	M79	3 m	S44
• DN 100	M80	4 m	S45
• DN 125	M81	5 m	S46
		6 m	S47
		7 m	S48
		8 m	S49
		9 m	S50
		10 m	S51
		11 m (only for 7MF0802)	S52
		12 m (only for 7MF0802)	S53
		13 m (only for 7MF0802)	S54
		14 m (only for 7MF0802)	S55
		15 m (only for 7MF0802)	S56

Diaphragm seals of sandwich design with flexible capillary

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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
11 m (only for 7MF0802)	S82
12 m (only for 7MF0802)	S83
13 m (only for 7MF0802)	S84
14 m (only for 7MF0802)	S85
15 m (only for 7MF0802)	S86
Customer-specific tube length	
Customer-specific tube length (specify in plain text)	Y44
Specification of process conditions¹⁾	
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

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

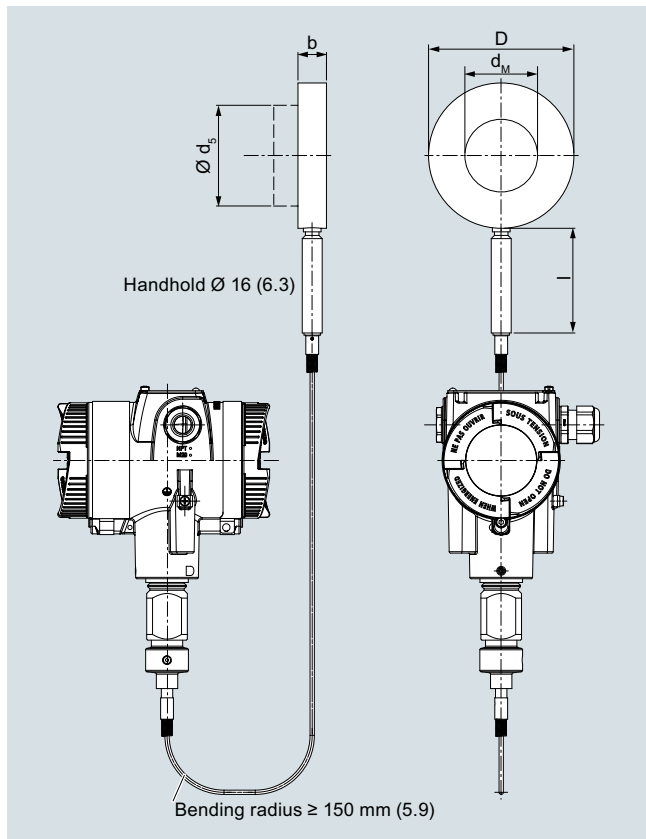
Pressure Measurement

Remote seals for pressure transmitters
SITRANS P320/P420

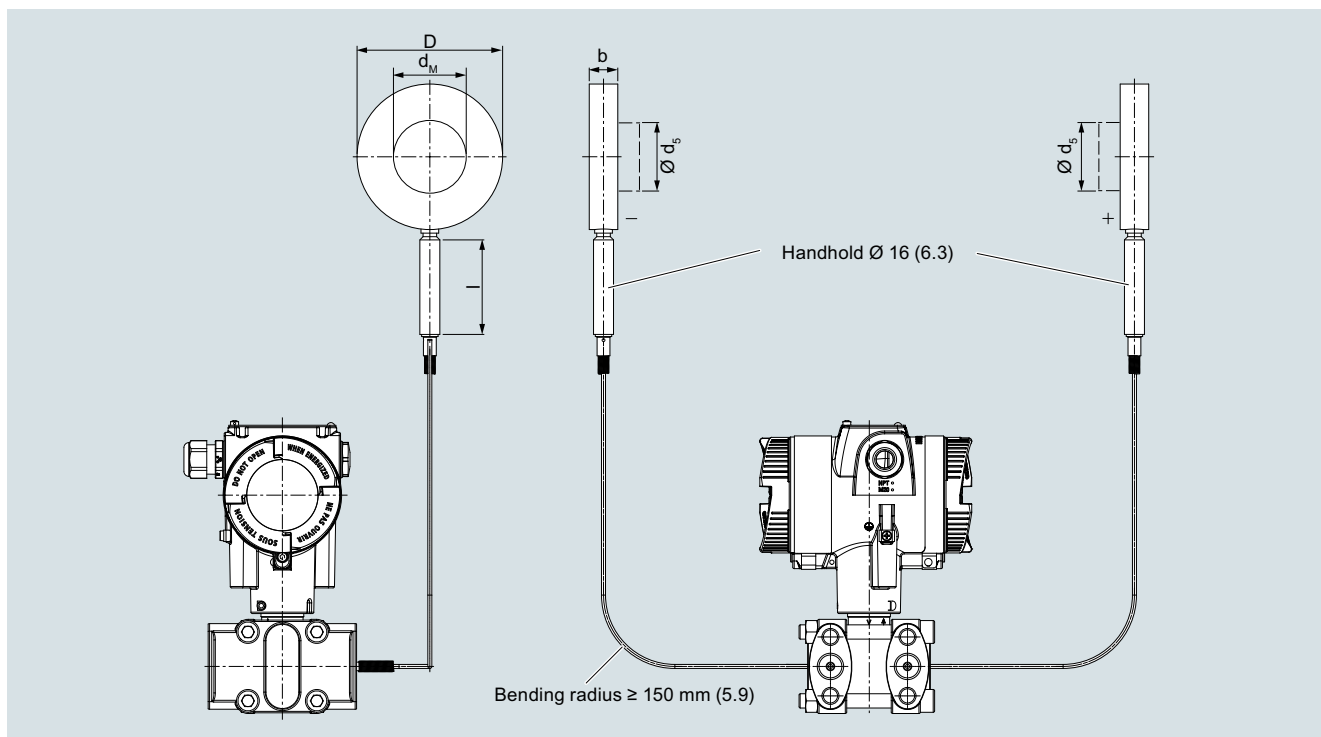
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Diaphragm seals of sandwich design with flexible capillary

Dimensional drawings



Diaphragm seals of sandwich design with flexible capillary for connection to SITRANS P320/420 pressure transmitters for pressure, dimensions in mm (inch)



Diaphragm seals of sandwich design (without flange) with flexible capillary for connection to SITRANS P320/420 pressure transmitters for absolute pressure or differential pressure and flow, dimensions in mm (inch)

Connection to EN 1092-1

Nom. diameter	Nom. pressure	b	D	d ₅	d _M with tube	d _M w/o tube	l
		mm	mm	mm	mm	mm	mm
DN 25	PN 16 ... PN 400	20	68	24,5	22.6	27	100
DN 40		20	88	38	30	40	100
DN 50		20	102	48.3	40	51	100
DN 65		20	122	48,3	40	65	100
DN 80		20	138	76	65	85	100
DN 100		20	158	94	85	85	100
DN 125		22	188	125	16	116	100

Connection to ASME B16.5

Nom. diameter	Nom. pressure	b	D	d ₅	d _M with tube	d _M w/o tube	l	
		lb/sq.in.	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
1 inch	150 ... 2500	20	51 (0.79)	24.5 (0.96)	22.6 (0.89)	30 (1.18)	100 (3.94)	
1½ inch		20	73 ()	38 (1.5)	30 (1.18)	40 (1.57)	100 (3.94)	
2 inch		20	100 (0.79)	48.3 (3.94)	40 (1.9)	51 (1.57)	100 (2.01)	100 (3.94)
2½ inch		20	105 (0.79)	48.3 (4.13)	40 (1.9)	65 (1.57)	100 (2.56)	100 (3.94)
3 inch		20	134 (0.79)	72 (5.28)	65 (3)	85 (2.56)	100 (3.35)	100 (3.94)
4 inch		20	158 (0.79)	94 (6.22)	85 (3.69)	85 (3.35)	100 (3.35)	100 (3.94)
5 inch		22	186 (0.87)	125 (7.32)	116 (4.92)	116 (4.57)	100 (4.57)	100 (3.94)

Connection to J.I.S.

Nom. diameter	Nom. pressure	b	D 10K, 20K	D 30K... 63K	d ₅	d _M with tube	d _M w/o tube	l	
		mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	
DN 25	10K ... 63K	20	67 (0.79)	70 (2.76)	24.5 (0.96)	22.6 (0.89)	30 (1.18)	100 (3.94)	
DN 40		20	81 (0.79)	90 (3.54)	38 (1.5)	30 (1.18)	36 (1.42)	100 (3.94)	
DN 50		20	96 (0.79)	105 (3.78)	48.3 (4.13)	40 (1.9)	51 (1.57)	100 (2.01)	100 (3.94)
DN 65		20	116 (0.79)	130 (4.57)	48.3 (5.12)	40 (1.9)	65 (1.57)	100 (2.56)	100 (3.94)
DN 80		20	132 (0.79)	140 (5.2)	76 (5.51)	65 (2.99)	85 (2.56)	100 (3.35)	100 (3.94)
DN 100		20	160 (0.79)	160 (6.3)	94 (6.3)	85 (3.69)	85 (3.35)	100 (3.35)	100 (3.94)
DN 125		20	195 (0.79)	195 (7.68)	125 (7.68)	116 (4.92)	116 (4.57)	100 (4.57)	100 (3.94)

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

d_M: Effective diaphragm diameter