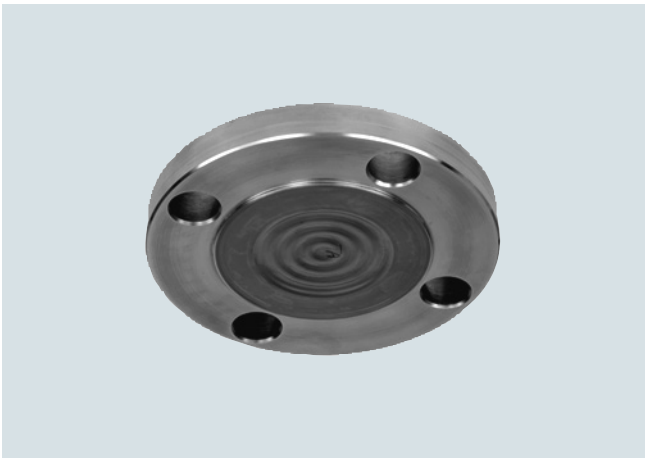
Diaphragm seals of flange design with flexible capillary

Overview



Diaphragm seals of flange design

Technical specifications

Diaphragm seals of flange design with flexible capillary	
Nominal diameter	Nominal pressure
• DN 50 (recommendable only for pressure transmitters for pressure)	PN 10/16/25/40, PN 100
• DN 80	PN 10/16/25/40, PN 100
• DN 100	PN 10/16, PN 25/40
• DN 125	PN 16, PN 40
• 2 inch (recommendable only for pressure transmitters for pressure)	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
• 5 inch	Class 150, class 300, class 400
Sealing surface	
• For stainless steel, mat. No. 1.4404/316L	To EN 1092-1, form B1 or ASMR B16.5 RF 125 ... 250 AA
• For the other materials	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
	• 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, W.-Nr. 2.4602
	Tantalum
	Titanium, W.-Nr. 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
• Sheath	Spiral protective tube made of stainless steel, mat. no. 1.4301/304
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 transmitter
Tube length	Without tube as standard (tube available on request)
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	
(for remote seals of sandwich and flange design)	Silicone oil M5
	Silicone oil M50
	High-temperature oil
	Halocarbon oil (for measuring O_2)
	Food 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)

Selection and Ordering data	Article No. Ord. code
Diaphragm seal	
Flange design, with flexible capillary, connected to a pressure transmitter SITRANS P (order separately):	
for pressure 7MF2033-...; 7MF403.-... and 7MF423.-... (absolute pressure (gauge pressure series) together with Order code "V01" (Negative pressure service) and 7MF802.-...[1]; scope of delivery: 1 off	7MF4920-
for absolute pressure (differential pressure series 7MF433.-...; scope of delivery: 1 off	7MF4921-
for differential pressure and flow 7MF243.-...; 7MF443.-... and 7MF54..-...; scope of delivery: 2 off	7MF4923-
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	1 ■■■■ - ■B ■■■
Nominal diameter and nominal pressure	
• DN 25 PN 10/16/25/40	Z J0A
PN 63/100/160	Z J0B
• DN 40 PN 10/16/25/40	Z J0C
PN 63/100	Z J0D
PN 160	Z J0E
• DN 50 PN 10/16/25/40	A
PN 100	B
(DN 50 recommended only for pressure transmitters for pressure)	
• DN 80 PN 10/16/25/40	D
PN 100	E
• DN 100 PN 10/16	G
• DN 125 PN 25/40	H
PN 10/16	J
PN 25/40	K
• 1 inch Class 150	Z J6A
Class 300	Z J6B
Class 400/600	Z J6C
Class 900/1500	Z J6D
• 1½ inch Class 150	Z J6E
Class 300	Z J6F
Class 400/600	Z J6G
Class 900/1500	Z J6H
• 2 inch Class 150	L
Class 300	M
Class 400/600	N
Class 900/1500	P
(2 inch recommended only for pressure transmitters for pressure)	
• 3 inch Class 150	Q
Class 300	R
Class 600	S
• 4 inch Class 150	T
Class 300	U
Class 400	V
• 5 inch Class 150	W
Class 300	X
Class 400	Y
• JIS DN 50 10 K 316L	Z J7A
20 K 316L	Z J7B
• JIS DN 80 10 K 316L	Z J7C
20 K 316L	Z J7D
Smooth sealing surface to EN 1092-1, form B1 or to ASME B16.5 RF 125 ... 250 AA	
Other version Add Order code and plain text: Nominal diameter: ...; Nominal pressure: ... Sealing surface: See "Technical data"	Z J1Y

Selection and Ordering data	Article No. Ord. code
Diaphragm seal	
Flange design, with flexible capillary, connected to a pressure transmitter SITRANS P (order separately):	
for pressure 7MF2033-...; 7MF403.-... and 7MF423.-... (absolute pressure (gauge pressure series) together with Order code "V01" (Negative pressure service) and 7MF802.-...[1]; scope of delivery: 1 off	7MF4920-
for absolute pressure (differential pressure series 7MF433.-...; scope of delivery: 1 off	7MF4921-
for differential pressure and flow 7MF243.-...; 7MF443.-... and 7MF54..-...; scope of delivery: 2 off	7MF4923-
Wetted parts materials	
• Stainless steel 316L	
- without coating	A
- with PTFE coating	E0
- with ECTFE coating[2) 3)]	F
- with PFA coating [3)]	D
• Monel 400, mat. No. 2.4360	G
• Hastelloy C276, mat. No. 2.4819	J
• Hastelloy C4, mat. No. 2.4602	U
• Hastelloy C22, mat. No. 2.4602	V0
• Tantalum	K0
• Titanium, mat. No. 3.7035 (max. 150 °C (302 °F))	L
• Nickel 201 (max. 260 °C (500 °F))	M0
• Duplex 2205, mat. no. 1.4462	Q0
• Duplex 2205, mat. no. 1.4462, incl. main body	R
• Stainless steel 316L, gold plated, thickness approx. 25 µm	S0

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Diaphragm seals of flange design with flexible capillary

Selection and Ordering data	Article No. Ord. code
Diaphragm seal	
Flange design, with flexible capillary, connected to a pressure transmitter SITRANS P (order separately):	
for pressure 7MF2033-...; 7MF403.-... and 7MF423.-... (absolute pressure (gauge pressure series) together with Order code "V01" (Negative pressure service) and 7MF802.-...[1]; scope of delivery: 1 off	**7MF4920-**
for absolute pressure (differential pressure series 7MF433.-...; scope of delivery: 1 off	**7MF4921-**
for differential pressure and flow 7MF243.-...; 7MF443.-... and 7MF54..-...; scope of delivery: 2 off	**7MF4923-**
	1 ■■■■ - ■B ■■■
Tube length	
• without tube	**0**
Other version: Add Order code and plain text: Wetted parts materials: ..., Tube length: ...	**Z 8** **K 1 Y**
Customer-specific tubus length	
Specify customer-specific length with Y44, see Order Code	
• Wetted parts materials: Stainless steel without foil	
Range | Standard length	
20 ... 50 mm (0.79 ... 1.97") | 50 mm (1.97")	**A 1**
51 ... 100 mm (2.01 ... 3.94") | 100 mm (3.94")	**A 2**
101 ... 150 mm (3.98 ... 5.91") | 150 mm (5.91")	**A 3**
151 ... 200 mm (5.94 ... 7.87") | 200 mm (7.87")	**A 4**
201 ... 250 mm (7.91 ... 9.84") | 250 mm (9.84")	**A 5**
• Wetted parts materials: Stainless steel coated with ECTFE	
Range | Standard length	
20 ... 50 mm (0.79 ... 1.97") | 50 mm (1.97")	**F 1**
51 ... 100 mm (2.01 ... 3.94") | 100 mm (3.94")	**F 2**
101 ... 150 mm (3.98 ... 5.91") | 150 mm (5.91")	**F 3**
151 ... 200 mm (5.94 ... 7.87") | 200 mm (7.87")	**F 4**
201 ... 250 mm (7.91 ... 9.84") | 250 mm (9.84")	**F 5**
• Wetted parts materials: Stainless steel coated with PFA	
Range | Standard length	
20 ... 50 mm (0.79 ... 1.97") | 50 mm (1.97")	**D 1**
51 ... 100 mm (2.01 ... 3.94") | 100 mm (3.94")	**D 2**
101 ... 150 mm (3.98 ... 5.91") | 150 mm (5.91")	**D 3**
151 ... 200 mm (5.94 ... 7.87") | 200 mm (7.87")	**D 4**
201 ... 250 mm (7.91 ... 9.84") | 250 mm (9.84")	**D 5**
• Wetted parts materials: Monel 400	
Range | Standard length	
20 ... 50 mm (0.79 ... 1.97") | 50 mm (1.97")	**G 1**
51 ... 100 mm (2.01 ... 3.94") | 100 mm (3.94")	**G 2**
101 ... 150 mm (3.98 ... 5.91") | 150 mm (5.91")	**G 3**
151 ... 200 mm (5.94 ... 7.87") | 200 mm (7.87")	**G 4**
• Wetted parts materials: Hastelloy C276	
Range | Standard length	
20 ... 50 mm (0.79 ... 1.97") | 50 mm (1.97")	**J 1**
51 ... 100 mm (2.01 ... 3.94") | 100 mm (3.94")	**J 2**
101 ... 150 mm (3.98 ... 5.91") | 150 mm (5.91")	**J 3**
151 ... 200 mm (5.94 ... 7.87") | 200 mm (7.87")	**J 4**
• Wetted parts materials: Tantalum	
Range | Standard length	
20 ... 50 mm (0.79 ... 1.97") | 50 mm (1.97")	**K 1**
51 ... 100 mm (2.01 ... 3.94") | 100 mm (3.94")	**K 2**
101 ... 150 mm (3.98 ... 5.91") | 150 mm (5.91")	**K 3**
151 ... 200 mm (5.94 ... 7.87") | 200 mm (7.87")	**K 4**

Selection and Ordering data	Article No. Ord. code
Diaphragm seal	
Flange design, with flexible capillary, connected to a pressure transmitter SITRANS P (order separately):	
for pressure 7MF2033-...; 7MF403.-... and 7MF423.-... (absolute pressure (gauge pressure series) together with Order code "V01" (Negative pressure service) and 7MF802.-...[1]; scope of delivery: 1 off	**7MF4920-**
for absolute pressure (differential pressure series 7MF433.-...; scope of delivery: 1 off	**7MF4921-**
for differential pressure and flow 7MF243.-...; 7MF443.-... and 7MF54..-...; scope of delivery: 2 off	**7MF4923-**
	1 ■■■■ - ■B ■■■
Filling liquid	
• Silicone oil M5	**1**
• Silicone oil M50	**2**
• High-temperature oil	**3**
• Halocarbon oil (for measuring O_2)[4]	**4**
• Food oil (FDA listed)	**7**
Other version Add Order code and plain text: Filling liquid: ...	**9** **M 1 Y**
Length of capillary[5]	
• 1.0 m (3.28 ft)	**2**
• 1.6 m (5.25 ft)	**3**
• 2.5 m (8.20 ft)	**4**
• 4.0 m (13.1 ft)	**5**
• 6.0 m (19.7 ft)	**6**
• 8.0 m (26.25 ft)	**7**
• 10.0 m (32.8 ft)	**8**
Special lengths for capillaries	
• 2.0 m (6.56 ft)	**9** **N 1 C**
• 3.0 m (9.84 ft)	**9** **N 1 E**
• 5.0 m (16.40 ft)	**9** **N 1 G**
• 7.0 m (23.97 ft)	**9** **N 1 J**
• 9.0 m (29.53 ft)	**9** **N 1 L**
only for 7MF4923-...	
• 11.0 m (36.09 ft)	**9** **N 1 N**
• 12.0 m (39.37 ft)	**9** **N 1 P**
• 13.0 m (42.65 ft)	**9** **N 1 Q**
• 14.0 m (45.93 ft)	**9** **N 1 R**
• 15.0 m (49.21 ft)	**9** **N 1 S**

1) With 7MF802.-... and the measuring cells Q, S, T and U also order the 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.
5) Max. capillary length, see section "Technical description".

Selection and Ordering data	Order code
Further designs Please add "**-Z**" to Article No. and specify Order code.	
Customer-specific tubus length Select range, enter desired length in plain text (No entry = standard length)	**Y44**
Spark arrestor With spark arrestor for mounting on zone 0 (including documentation) for transmitters for	
• pressure and absolute pressure	**A01**
• differential pressure	**A02**
Remote seal nameplate Attached out of stainless steel, contains MLFB and order number of the remote seal	**B20**
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	**C10**
Quality Inspection Certificate (5-point characteristic curve test) according to IEC 60770-2	**C11**
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)"	**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)	**C20**
Functional safety certificate ("SIL 2/3") to IEC 61508 (Only in conjunction with the Order code "C23" in the case of SITRANS P DSIII transmitter)	**C23**
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)	**D08**
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	**E10**
Epoxy painting (not possible with negative pressure service and not for 7MF4921-...) 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**
One-sided mounting on differential pressure transmitters (only for 7MF4920-...)	
on high-pressure side	**H10**
on low-pressure side	**H11**

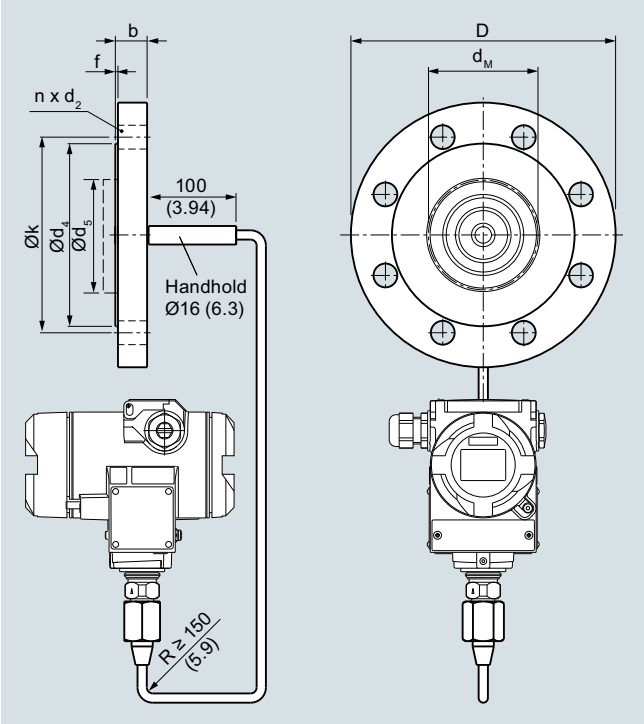
Selection and Ordering data	Order code
Further designs Please add "**-Z**" to Article No. and specify Order code.	
Sealing surface smooth, form B2 or RFSF (Stainless steel diaphragm) previously DIN 2501, form E	**J11**
Sealing surface groove, EN 1092-1, form D instead of sealing surface B1 (only for wetted parts made of stainless steel 316L)	**J14**
Sealing surface with spring according to EN 1092-1, form C, (previously DIN 2512, form F) in stainless steel 316L	
DN 25	**J30**
DN 40	**J31**
DN 50	**J32**
DN 80	**J33**
DN 100	**J34**
DN 125	**J35**
Sealing surface with male face according to EN 1092-1, form E (previously DIN 2512, form V13) in stainless steel 316L	
DN 25	**J40**
DN 40	**J41**
DN 50	**J42**
DN 80	**J43**
DN 100	**J44**
DN 125	**J45**
Sealing surface with female face according to EN 1092-1, form F (previously DIN 2512, form R13) in stainless steel 316L	
DN 25	**J50**
DN 40	**J51**
DN 50	**J52**
DN 80	**J53**
DN 100	**J54**
DN 125	**J55**
Sealing surface B1 or ASME B16.5 RF 125 ... 250 AA instead of sealing surface B2 or RFSF (only for wetted parts made of Hastelloy C276 (2.4819), tantalum and Duplex 2205 (1.4462) and for nominal 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 with flexible capillary

Selection and Ordering data	Order code
Further designs Please add "**-Z**" to Article No. and specify Order code.	
Radial capillary pipe outlet	
for one-sided mounting	**K01**
for two-sided mounting	**K03**
PE protective tube over the spiral protective tube of the capillaries (color: white)	
1.0 m (3.28 ft)	**N20**
1.6 m (5.25 ft)	**N21**
2.0 m (6.56 ft)	**N22**
2.5 m (8.20 ft)	**N23**
3.0 m (9.84 ft)	**N24**
4.0 m (13.12 ft)	**N25**
5.0 m (16.40 ft)	**N26**
6.0 m (19.69 ft)	**N27**
7.0 m (22.97 ft)	**N28**
8.0 m (26.25 ft)	**N29**
9.0 m (29.53 ft)	**N30**
10.0 m (32.81 ft)	**N31**
only for 7MF4923-...	
11.0 m (36.09 ft)	**N32**
12.0 m (39.37 ft)	**N33**
13.0 m (42.65 ft)	**N34**
14.0 m (45.93 ft)	**N35**
15.0 m (49.21 ft)	**N36**
PTFE protective tube over the spiral protective tube of the capillaries (color: transparent)	
1.0 m (3.28 ft)	**N40**
1.6 m (5.25 ft)	**N41**
2.0 m (6.56 ft)	**N42**
2.5 m (8.20 ft)	**N43**
3.0 m (9.84 ft)	**N44**
4.0 m (13.12 ft)	**N45**
5.0 m (16.40 ft)	**N46**
6.0 m (19.69 ft)	**N47**
7.0 m (22.97 ft)	**N48**
8.0 m (26.25 ft)	**N49**
9.0 m (29.53 ft)	**N50**
10.0 m (32.81 ft)	**N51**
only for 7MF4923-...	
11.0 m (36.09 ft)	**N52**
12.0 m (39.37 ft)	**N53**
13.0 m (42.65 ft)	**N54**
14.0 m (45.93 ft)	**N55**
15.0 m (49.21 ft)	**N56**

Selection and Ordering data	Order code
PVC protective tube over the spiral protective tube of the capillaries (color: black)	
1.0 m (3.28 ft)	**N60**
1.6 m (5.25 ft)	**N61**
2.0 m (6.56 ft)	**N62**
2.5 m (8.20 ft)	**N63**
3.0 m (9.84 ft)	**N64**
4.0 m (13.12 ft)	**N65**
5.0 m (16.40 ft)	**N66**
6.0 m (19.69 ft)	**N67**
7.0 m (22.97 ft)	**N68**
8.0 m (26.25 ft)	**N69**
9.0 m (29.53 ft)	**N70**
10.0 m (32.81 ft)	**N71**
only for 7MF4923-...	
11.0 m (36.09 ft)	**N72**
12.0 m (39.37 ft)	**N73**
13.0 m (42.65 ft)	**N74**
14.0 m (45.93 ft)	**N75**
15.0 m (49.21 ft)	**N76**
Negative pressure service	
for use in low-pressure range for transmitters for	
• gauge and absolute pressure from the pressure series	**V01**
• differential pressure	**V03**
Extended negative pressure service	
for use in low-pressure range for transmitters for	
• gauge and absolute pressure from the pressure series	**V51**
• differential pressure	**V53**

Dimensional drawings



Diaphragm seals of flange design with flexible capillary for connection to SITRANS P pressure transmitters for pressure, dimensions in mm (inch)

Connection to EN 1092-1

Nom. diam.	Nom. press.	b mm	D mm	d_2 mm	d_4 mm	d_5 mm	d_M mm	f mm	k mm	n
DN 50	PN 10/1 6/ 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 10/1	24	200	18	138	76	72[2]	2	160	8
	PN 100	32	230	26	138	76	72[2]	2	180	8
DN 100	PN 10/1	20	220	18	158	94	89	2	180	8
	PN 25/4	24	235	22	162	94	89	2	190	8
DN 125	PN 16	22	250	18	188	125	124	2	210	8
	PN 40	26	270	26	188	125	124	2	220	8

Connection to ASME B16.5

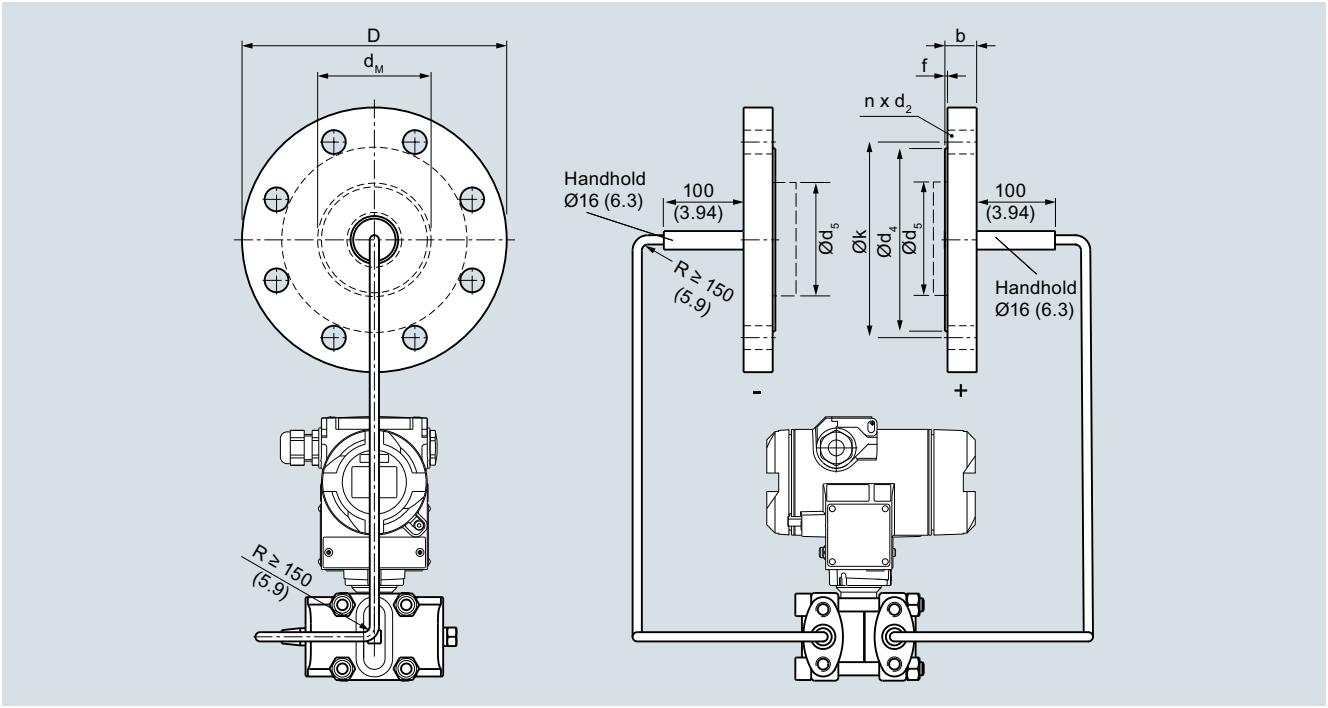
Nom. diam.	Nom. press. lb/ sq.in.	b mm (inch	D mm (inch)	d_2 mm (inch	d_4 mm (inch	d_5 mm (inch	d_M mm (inch	f mm (inch	k mm (inch	n
2 inch	150	19.5	150	20	92	48.3	45[1]	2	120.5	4
		(0.77)	(5.80)	(0.79)	(3.62)	(1.9)	(1.77)	(0.08)	(4.74)	
	300	22.7	165	20	92	48.3	45[1]	2	127	8
		(0.89)	(6.50)	(0.79)	(3.62)	(1.9)	(1.77)	(0.08)	(5)	
	400/ 600	32.4	165	20	92	48.3	45[1]	2	127	8
		(1.28)	(6.50)	(0.79)	(3.62)	(1.9)	(1.77)	(0.08)	(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)	(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)	(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)	(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)	(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	(0.87)	(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)	
5 inch	150	24.3	255	22	186	125	124	2	216	8
		(0.96)	(10.04	(0.87)	(7.32)	(4.92)	(4.88)	(0.08)	(8.50)	
	300	35.8	280	22	186	125	124	2	235	8
		(1.41)	(11.02	(0.87)	(7.32)	(4.92)	(4.88)	(0.08)	(9.25)	
	400	45.1	280	26	186	125	124	7	235	8
		(1.79)	(11.02	(1.02)	(7.32)	(4.92)	(4.88)	(0.28)	(9.25)	

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

Diaphragm seals of flange design with flexible capillary



Diaphragm seals of flange design with flexible capillary for connection to SITRANS P pressure transmitters for absolute pressure or for differential pressure and flow, dimensions in mm (inch)

Connection to EN 1092-1

Nom. diam.	Nom. press.	b mm	D mm	d_2 mm	d_4 mm	d_5 mm	d_M mm	f mm	k mm	n
DN 80	PN 10/16	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	180	8
	PN 25/40	24	235	22	162	94	89	2	190	8
DN 125	PN 16	22	250	18	188	125	124	2	210	8
	PN 40	26	270	26	188	125	124	2	220	8

Connection to ASME B16.5

Nom. diam.	Nom. press. lb/ sq.in.	b mm (inch	D mm (inch)	d_2 mm (inch	d_4 mm (inch	d_5 mm (inch	d_M mm (inch	f mm (inch	k mm (inch	n
3 inch	150	24.3	190	20	127	76	72[1)]	2	152.5	4
		(0.96)	(7.48)	(0.79)	(5)	(3)	(2.83)	(0.08)	(6)	
	300	29	210	22	127	76	72[1)]	2	168.5	8
		(1.14)	(8.27)	(0.87)	(5)	(3)	(2.83)	(0.08)	(6.63)	
	600	38.8	210	22	127	76	72[1)]	7	168.5	8
		(1.52)	(8.27)	(0.87)	(5)	(3)	(2.83)	(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)	(0.87)	(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)	
5 inch	150	24.3	255	22	186	125	124	2	216	8
		(0.96)	(10.04)	(0.87)	(7.32)	(4.92)	(4.88)	(0.08)	(8.50)	
	300	35.8	280	22	186	125	124	2	235	8
		(1.41)	(11.02)	(0.87)	(7.32)	(4.92)	(4.88)	(0.08)	(9.25)	
	400	45.1	280	26	186	125	124	7	235	8
		(1.79)	(11.02)	(1.02)	(7.32)	(4.92)	(4.88)	(0.28)	(9.25)	

d: Inside diameter of gasket according to EN 1092-1 / ASME B16.5
d_M: Effective diaphragm diameter
[1)] 89 mm = 3½ inch with tube length L = 0