

Diaphragm In-line Seals

Cell-Type (Sandwich) • Model 981.10

Diaphragm Seals

Service intended

For direct, permanent installation in pipelines.
For flowing, pure and corrosive media, to combine with bourdon tube pressure gauges and pressure transmitters.
For all applications where measuring stations without dead space are required.

Design

Completely round diaphragm, no corners and edges, with optimal transition to media line with no dead spaces, absolutely without cross-section constrictions.
Europ. pat. no. 0629846

Process connection

For flanges following EN 1092-1 / ASME B 16.5
DN 25, 40, 50, 80, 100, 125, 150 resp. 1", 1 1/2", 2", 3", 4", 5", 6"

Pressure rating

PN 100 respectively class 2500

Suitable pressure ranges

Preferably mounted to pressure gauges nominal sizes 63, 100, 160 or pressure transmitter,
0 ... 0.6 to 0 ... 400 bar

Standard features

Body (process connection)

Stainless steel 316L
Flange EN 1092-1 respectively ASME B 16.5
Nominal size: see drawing and tables (DN)
Sealing face form B1 or ASME RF 125 ... 250 AA

Diaphragm

Stainless steel 316L, welded with body

Instrument connection

Material: stainless steel 316L
Adaptor G 1/2 female per EN 837-1 / 7.3, welded with body



Optional extras

Body (process connection)

- Larger nominal sizes
- Special materials such as:
Stainless steel 1.4571, 1.4435, 1.4541, Monel, titanium, Hastelloy B3, C4, C22, C276
- Sealing faces per EN 1092-1, form B2 or per ASME B 16.5, RF 125 AA, 500 AA, RFSF; EN 1092-1 groove and tongue; projection and recess; ASME B 16.5 snap ring groove form RJF (limited for special materials, please inquire)
- Flame arrester approved for Zone 0

Diaphragm

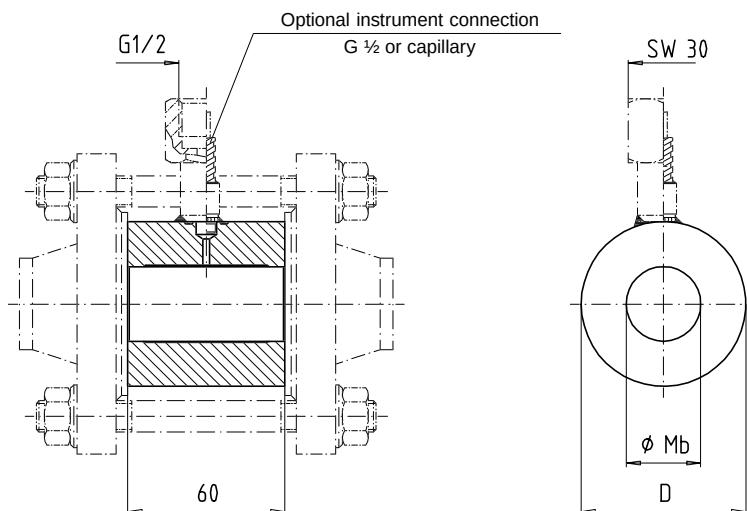
- Special materials such as:
Stainless steel 1.4571, 1.4435, 1.4541, Monel, Hastelloy B3, C4, C22, C276, tantalum
- PFA coating max. +260 °C
- ECTFE (Halar®) coating max. +150 °C

Instrument connection

- Capillary extension welded with body and gauge adaptor G 1/2 female to fit surface mounting bracket material: stainless steel
- Cooling tower for directly mounted gauge when fluid temperature > +140 °C

Dimensions

Standard version



1037 161.03

Flange connection following EN 1092-1

DN [mm]	PN [bar] 2)	Dimensions [mm]			Weight [kg]
		D	Mb 1)	L	
25	6 ... 100	63	28.5	60	1.4
40	6 ... 100	85	43	60	2.2
50	6 ... 100	95	54.5	60	2.5
80	6 ... 100	130	82.5	60	4.0
100	6 ... 100	150	107	60	4.7
125	6 ... 100	195	132	60	6.8
150	6 ... 100	212	159	60	9.5

1) WIKA standard diameter, other pipe diameters and nominal sizes on inquiry

2) Higher pressure ratings on inquiry

Flange connection per ASME B 16.5

DN [in.]	PN [class]	Dimensions [mm]			Weight [kg]
		D	Mb 1)	L	
1	150 ... 2500	63	28.5	60	1.4
1 ½	150 ... 2500	78	43	60	2.2
2	150 ... 2500	95	54.5	60	2.5
3	150 ... 2500	130	82.5	60	4.0
4	150 ... 2500	150	107	60	4.7
5	150 ... 2500	186	132	60	6.8
6	150 ... 2500	216	159	60	9.5

Ordering information

Model / Process connection (standard, nominal size, pressure rating, sealing face) / Material of wetted parts / Instrument connection: directly combined or capillary extension, capillary length / Fill fluid / Pressure gauge model/ Process conditions: application, process temperature max. and min., ambient temperature max. and min.

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



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