

# Diaphragm In-Line Seals For Flanged Connections Cell-Type (Sandwich), Model 981.10

WIKA Data Sheet DS 98.28

## Applications

- For direct, permanent installation in pipelines
- For flowing, pure and aggressive media
- Chemical process industry
- Petrochemical industry

# **Special Features**

- Completely round, no corners and edges, European Patent No. 0629846
- For direct installation between two flanges
- Wide choice of special materials



Diaphragm In-line Seals, Cell-Type (Sandwich), Model 981.10

# Description

#### **Process connection**

For flanges following EN 1092-1 / ASME B 16.5 Nominal sizes see drawing and tables Sealing faces, Form B1 or ASME RF 125 ... 250 AA

#### **Pressure rating**

PN 6 ... 400 or class 150 ... 2500

#### **Pressure ranges**

Preferably assembled on pressure gauges NS 63, 100, 160 or pressure transmitters, measuring ranges 0 ... 0.6 to 0 ... 400 bar

#### Body and material of wetted parts Stainless steel (AISI 316L)

### Measuring instrument connection

Pressure gauge or transmitter directly welded, process pressure transmitter with threaded adapter

### System fill fluid

KN2, Silicone oil

# Options

#### **Process connection**

- Sealing faces per EN 1092-1, Form B2 or per ASME B 16.5, RF 125 AA, 500AA, 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

### Measuring instrument connection

- Capillary, when ordering please specify: length of capillary
- Cooling tower (for process temperature >140 °C)

### Material of wetted parts

- Stainless steel 1.4435, 1.4541, 1.4571, 1.4462, Monel 400, Hastelloy C276, Inconel 600, Incoloy 825, tantalum, Hastelloy B2, C4, C22 and nickel
- PFA coating
- ECTFE (Halar<sup>®</sup>) coating

#### Capillary

- Custom lengths between 1 and 15 m
- Soft polyethylene or PTFE armour

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# **Dimensions in mm**



### Connection following EN 1092-1

DN in mm	PN in bar	Dimensions	Weight		
		D	Mb	L	in kg
25	6 400	63	28.5	60	1.4
40	6 400	85	43	60	2.2
50	6 320	95	54.5	60	2.5
80	6 250	130	82.5	60	4.0
100	6 160	150	107	60	4.7
125	6	178	132	60	6.8
125	10 63	188	132	60	6.8
150	6	202	159	60	9.5
150	10 63	212	159	60	9.5

### Connection per ASME B 16.5

NPS	Class	Dimensions	Weight		
		D	Mb	L	in kg
1"	150 2500	63	28.5	60	1.4
1 1⁄2"	150 2500	78	43	60	2.2
2"	150 1500	95	54.5	60	2.5
3"	150 900	130	82.5	60	4.0
4"	150 600	150	107	60	4.7
5"	150 300	186	132	60	6.8
6"	150 300	216	159	60	9.5

## **Ordering information**

Model / Process connection (standard, nominal size, pressure rating, sealing face form) / Material of wetted parts / Instrument connection: direct assembly or via capillary, capillary length / System fill fluid / Assembly on pressure measuring instrument 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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