Diaphragm In-Line Seals
For Flange Connections
Flange Type, Model 981.27

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

Description
Process connection
for flanges following EN 1092-1 / ASME B 16.5
DN 25, 40, 50, 80, 100 or 1", 2", 3", 4"
Nominal size: see drawing and tables (DN)
Sealing face, Form B1 or ASME RF 125 ... 250 AA

Pressure rating
PN 16/40 or Class 150/300

Pressure ranges
preferably mounted to pressure gauges
NS 63, 100, 160 or pressure transmitters,
Pressure ranges 0 ... 0.6 to 0 ... 40 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

Options
Process connection
- Larger nominal sizes
- Other flange connections on request
- 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 request)
- Flame arrester approved for Zone 0

Material of wetted parts
- 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

Measuring instrument connection
- Capillary, when ordering please specify:
  length of capillary
- Cooling tower (for directly mounted gauge when fluid
  temperature > +140 °C)

Capillary
- Custom lengths between 1 and 15 m
- Soft polyethylene or PTFE armour
Dimensions in mm

Flange connection following EN 1092-1

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<th>DN in mm</th>
<th>PN</th>
<th>D</th>
<th>b</th>
<th>d₂</th>
<th>k</th>
<th>f</th>
<th>d₄</th>
<th>No. of bolt holes</th>
<th>L</th>
<th>Mb¹)</th>
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¹) WIKA standard diameter, other pipe diameters and nominal sizes on request.

Flange connection per ASME B 16.5

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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.

Modifications may take place and materials specified may be replaced by others without prior notice.

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.