

Flanged Process Connection, Diaphragm Seals Cell-Type (Sandwich) Seals with Extended Diaphragm Model 990.35

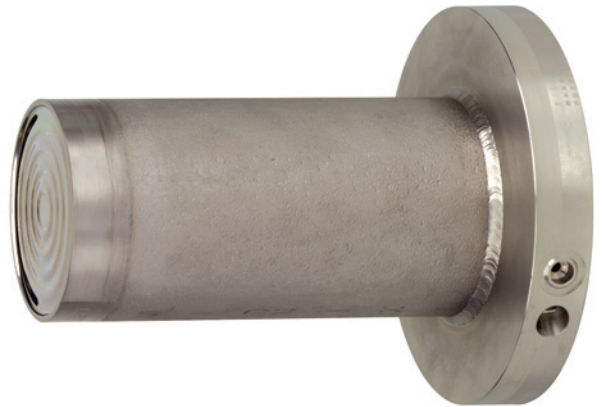
WIKA Data Sheet DS 99.30

Applications

- Chemical process industry
- Petrochemical industry
- Suitable for corrosive, highly viscous, crystallising or hot pressure media
- For thick-walled or isolated tanks and pipelines
- High pressure applications

Special Features

- Sandwich flange (cell) with an extended welded diaphragm with contoured diaphragm bed
- Available for all standard dimensions and nominal diameters
- With special materials all wetted parts of the selected material



Diaphragm Seal, Cell-Type (Sandwich) Seal with Extended Diaphragm Model 990.35

Description

Process connection

Flanges DN 50, 80, 100, 125 following EN 1092-1, sealing face form B1 or NPS 2", 3", 4", 5" per ASME B 16.5, RF 125 ... 250 AA
For the mounting an additional blind flange is required (not included in the scope of delivery)

Pressure rating

See table (reverse side)

Pressure ranges

25 mbar and up, depending on diaphragm size and process conditions

Material of wetted parts

Stainless steel 316L

Diaphragm extension

50, 100, 150 or 200 mm

Instrument connection

Material stainless steel 316L, adaptor G ½ female per EN 837-1, welded to capillary

Capillary extension

Radial entry capillary of stainless steel 1.4571, welded to body, armoured, armour material stainless steel 1.4301
Standard extensions: 1, 1.6, 2.5, 4, 5, 6, 7, 8 m
Minimum curve radius: 30 mm

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

Instrument connection

- Adaptor with optional welding or pipe thread nipple

Material of wetted parts

- Stainless steel 1.4435, 1.4541, 1.4571, 1.4462 titanium; Hastelloy B3, C4, C276; Monel 400; nickel Inconel 600; Incoloy 825; tantalum
- Stainless steel 316L, diaphragm with gold plating approx. 25 micron
- PFA coating max. 260 °C
- ECTFE (Halar®) coating max. 150 °C

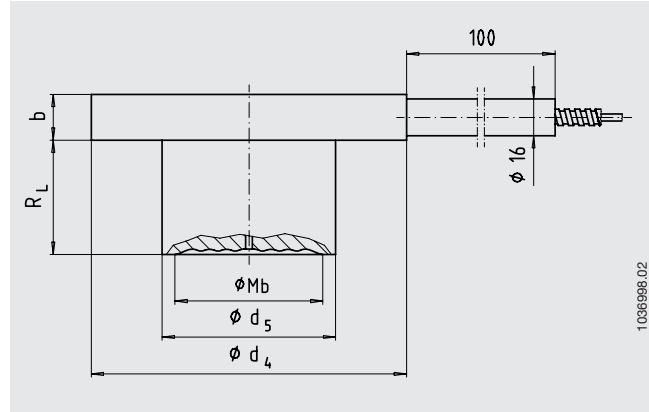
Diaphragm extension

Custom lengths available

Capillary extension

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

Dimensions in mm



Flange connection following EN 1092-1, form B1

DN in mm	PN in bar	Dimensions in mm				Extension R _L
		M _b	b	d ₄	d ₅	
50	16 ... 100	45	20	102	48.3	50, 100, 150, 200
80	16 ... 100	72	20	138	76	50, 100, 150, 200
100	16 ... 40	89	20	158	94	50, 100, 150, 200
125	16 ... 40	124	20	188	125	50, 100, 150, 200

M_b = effective diameter of diaphragm

Flange connection per ASME B 16.5, raised face

NPS	Class	Dimensions in mm				Extension R _L
		M _b	b	d ₄	d ₅	
2"	150 ... 600	45	20	100	48.3	50, 100, 150, 200
3"	150 ... 600	72	20	134	76	50, 100, 150, 200
4"	150 ... 300	89	20	158	94	50, 100, 150, 200
5"	150 ... 300	124	20	186	125	50, 100, 150, 200

M_b = effective diameter of diaphragm

Ordering information

Model / Process connection (standard, nominal size, pressure rating, sealing face) / Extension R_L / Material of wetted parts / Instrument connection: directly combined or capillary extension, capillary length / System fill fluid / Pressure gauge 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.



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