

Sterile Process Connection, Diaphragm Seals for Food, Biochemical and Pharmaceutical Industry DRD Connection Model 990.17

WIKA Data Sheet DS 99.39



Applications

- Food and beverage industry
- Dairies, breweries, soft drink production
- For storage tanks

Special Features

- Quick measuring point cleaning without residues
- Suitable for SIP and CIP
- FDA compliant system fill fluid
- Flush welded diaphragm



Diaphragm Seal, Model 990.17 with DRD Connection
and Pressure Gauge Model 232.50 NS 100

Description

Process connection

For welding flanges with DRD connection

Pressure rating

PN 40

Suitable pressure ranges

0 ... 0.6 bar to 0 ... 40 bar

Material of wetted parts

- Stainless steel 1.4435 (316L)
- Stainless steel 1.4435 (316L) electropolished
- Special materials on inquiry

Assembly parts

Retainer flange, stainless steel 1.4435 (316L),
hexagonal bolts, stainless steel M10 x 20

Sealing ring

Dimensions $\varnothing 54 \times \varnothing 65 \times 2$ mm
material EPDM, FDA conform or PTFE



Welding flange with DRD Connection for Diaphragm Seal,
Model 990.17

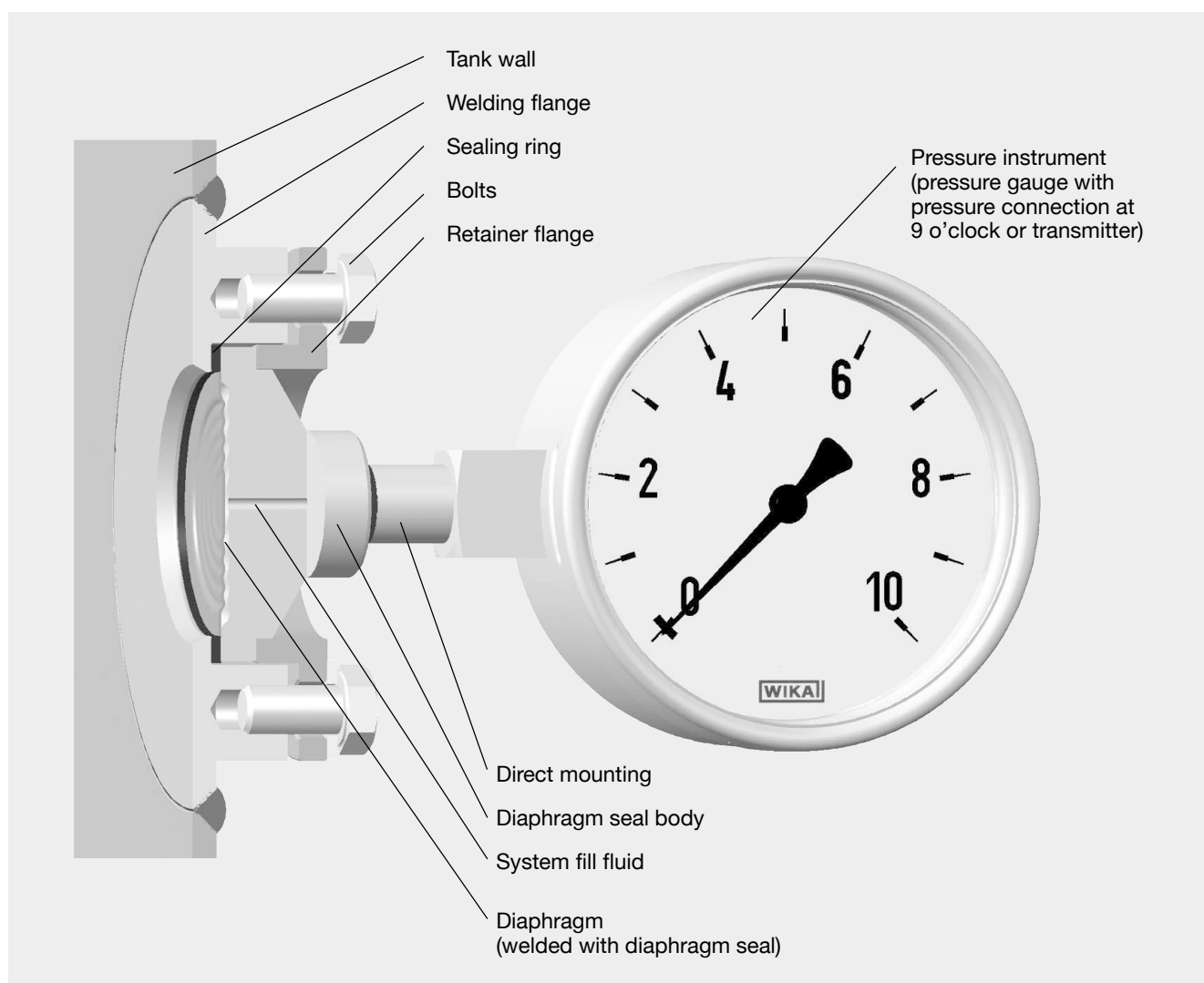
Pressure instrument assembly

- Gauges directly welded
- Transmitter with adaptor screwed
- Assembly via cooling tower
- Assembly via capillary, when ordering please specify:
length of capillary

System fill fluid

- KN 7 Glycerine, food compatible, FDA conform, according to standard US Pharmacopoeia XXIV and European Pharmacopoeia (2000)
- KN 62 Liquid Paraffin (medical white oil), pharma-compatible, FDA conform, meets purity requirements of US Pharmacopoeia XXIII, European Pharmacopoeia (1997), Japanese Pharmacopoeia XII
- KN 12 Glycerine/water, FDA conform, according to standard US Pharmacopoeia XXIV and European Pharmacopoeia (2000)

Installation example for a diaphragm seal model 990.17 with direct mounted pressure gauge



The picture shows the installation into a vertical tank wall by means of a welding flange.

The measuring arrangement is self-draining, recommended mounting position according to 3-A Standard 74-02.

Possible combinations

Combination with bourdon tube pressure gauge

- Stainless steel series
Model 232.50/233.50,
without/with liquid filling
(see data sheet PM 02.02)



- Stainless steel, safety pattern version
Model 232.30/233.30,
without/with liquid filling
(see data sheet PM 02.04)



Combination with pressure transmitter

- for general applications
Model S-10, IS-10
(see data sheet PE 81.01)



- with field case
Model F-20, IF-20
(see data sheet PE 81.19)



- Universal transmitter
UniTrans,
Model UT-10, IUT-10
(see data sheet PE 86.01 resp. PE 86.02)



The following application conditions have to be taken into account:

- Pressure instrument directly combined with diaphragm seal
- Temperature range
process: +10 ... +150 °C
ambient: +10 ... +40 °C

Measuring instrument	Pressure gauge	Pressure transmitter	
	Nominal size 63	Nominal size 100	
Lowest measuring range	0 ... 1 bar	0 ... 0.6 bar	0 ... 400 mbar

Further gauge variants and lower pressure ranges can be supplied after technical verification and clarification by WIKA.

Ordering information

Model / Material of wetted parts / Material of sealing ring / Assembly, if necessary length of capillary / System fill fluid / Pressure gauge model / Accessories and specials / Process conditions: application, process temperature min. and max., ambient temperature min. and max.

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.

