

# I-Type diaphragm seals,

## Type: RS-F4

# RUEGER

Sole agent in Indonesia : PT. Instrumentation Engineering and Services ( 08111371371 )



Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids which may be corrosive, viscous, sedimentous and/or with a high temperature and pressure. An elastic diaphragm, mechanically clamped, fitted to a leak proof check, guarantees the separation of the process fluid from the transmission fill fluid. The mechanical sealing of the diaphragm on I-type guarantees the application of the system at high process fluid temperature avoiding the problems caused by gaskets.

### Functional and constructive characteristics.

**Ranges:** -1...0/0...60 bar. 0...100/0...250 bar.

**Process temperature:** -45°C...+150°C.

**Accuracy\*:** (add to instrument accuracy)  $\pm 0,5\%$  for direct mounting;  
 $\pm 1\%$  for capillary mounting.

**Instrument connection:** AISI 316 st. st. 1/2" BSPF.

**Diaphragm:** AISI 316 L st.st.

**Gasket:** PTFE (max. 250°C).

**Process connection:** AISI 316 st.st., DN 15...40, PN 40...160 UNI-DIN step seal; 1/2"...1" 1/2, 600...2500 RF as per ANSI B16.5.

**Filling liquid:** silicone oil

**Bolts and nuts:** AISI 304 st. st.

**Capillary (remote mounting):** AISI 304 st.st.  $\varnothing 3 \times 1$  or AISI 304 st.st. covered with AISI 304 st. st. armour  $\varnothing 6$  (max. length 6 mt.).

### Special versions

**High temperature version:** with BUNA S gasket and silicone oil type Silicon DC 710

**Instrument connection:** AISI 316 st.st., 1/2" BSP F. Diaphragm: Monel 400, Hastelloy C276, Hastelloy B2, Tantalum.

**Diaphragm:** Monel 400, Nickel, Hastelloy C276, Hastelloy B2, Tantalum, Titanium and AISI 316L st.st. PTFE coated (1).

**Process connection material:** Hastelloy C276, Monel 400.

**Process connection:** with special flange finishing

**Filling liquids:** special filling liquids are available for special process conditions (see table FILLING LIQUIDS).

**Capillary (remote mounting):** AISI 316 st.st. covered with AISI 304 st. st. armour  $\varnothing 6$ ; AISI 304 st.st. covered with AISI 304 st. st. armour  $\varnothing 6$ , PVC coated.

### REMOTE MOUNTING

#### CAPILLARY TYPE - max. length 6 mt.

##### CAPILLARY TYPE

AISI 304 st.st.

AISI 316 st.st. covered with AISI 304 st.st. armour

AISI 316 st.st. covered with AISI 304 st.st. armour, PVC coated

AISI 304 st.st. covered with AISI 304 st.st. armour

### FILLING LIQUIDS

Silicon DC 200 [-40°C to 205°C]

Food grade oil [-20°C to 140°C]

Glycerine [10°C to 150°C]

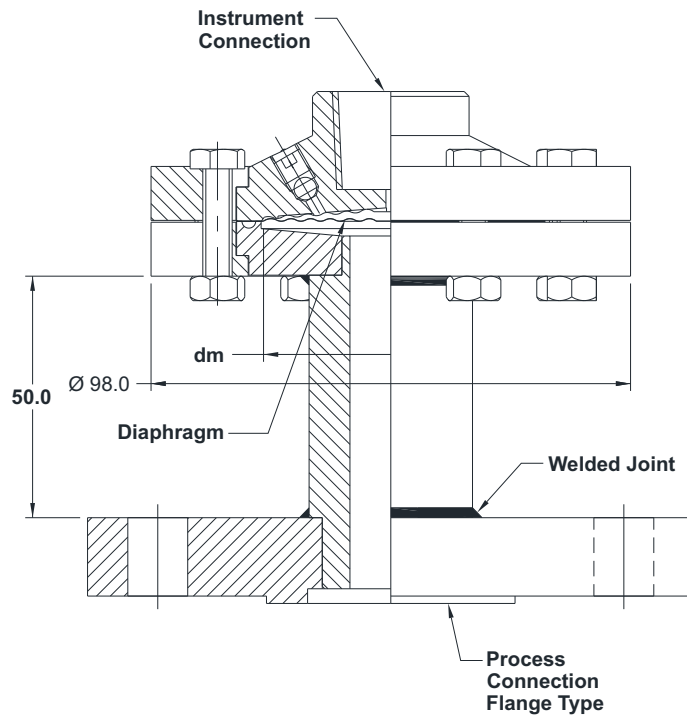
Syltherm 800 [-40°C to 315°C]

Silicon DC 710 [7°C to 371°C]

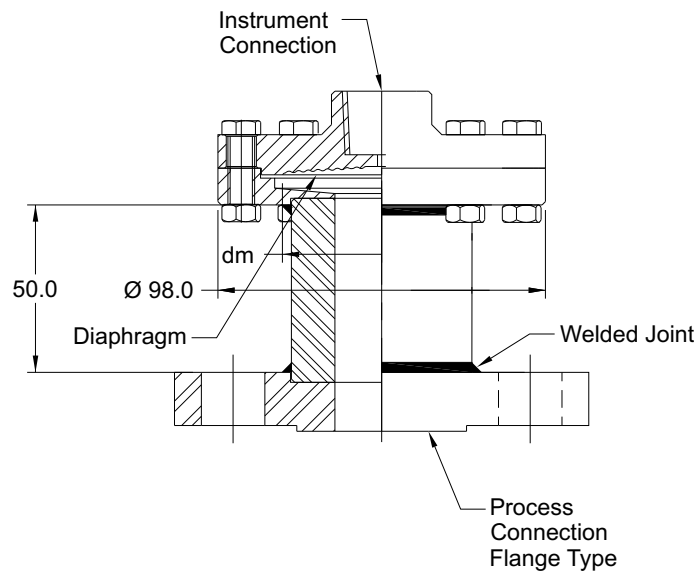
\* at 20 °C process temperature  
(or state temperature when ordering)

(1) max. temperature 150 °C/328 °F, with PTFE coating.

## DIMENSIONS (mm.)



Type: -1 + 0 bar / 0 + 60 bar



Type: 100 bar... 400 bar

Modifications reserved

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