

# Check List for Pressure Measuring Instruments with Chemical Seal

Inquiry- / Project- / Order-No.

Name / Address / Phone / E-Mail

Application (short description)

Quantity

Pressure measuring instrument / if applicable electrical accessories (ordering code)

Attention please! A mounting device is required for systems with capillary line:

- Gauge holder bracket  60 mm (2.36")  100 mm (3.94")  160 mm (6.3")  aluminum black  stainless steel  
 front flange for panel mounting  
 back flange for surface mounting

## Chemical Seal

Diaphragm seal (MDM)

In-line seal (RDM)

Capsule seal (TDM)

Model

Installation at Ex-Zone 0

yes (with Adapt FS according to data sheet 11001)

no

Process connection

.....

DN .....

PN .....

for RDM

suitable for tube inside diameter ..... mm

for MDM with extension

length of extension tube ..... mm

Medium

gaseous  liquid  viscous  abrasive

Material of wetted parts

standard, according to data sheet special material: .....

max. operating pressure

statical ..... bar / dynamical from ..... to ..... bar / Frequency ..... Hz

Could vacuum occur?

yes, smallest absolute pressure ..... mbar  no

at temperature ..... °C

Working temperature (t<sub>A</sub>)

medium ..... °C constant, or min. .... °C / max. .... °C

dial inscription t<sub>A</sub> = ..... °C (will be calibrated)

Cleaning temperature (t<sub>R</sub>)

at chemical seal max. .... °C / duration of cleaning ..... h

Ambient temperature (t<sub>UD</sub>)

at pressure measuring instrument ..... °C constant, or min. .... °C / max. .... °C

Ambient temperature (t<sub>UF</sub>)

at capillary line ..... °C constant, or min. .... °C / max. .... °C

Outdoor use

yes  no

Filling fluid

selection according to above stated temperatures

further requirements:  for oxygen  for chlorine  silicone-free

food compatible  FDA approved

others: .....

Certificate

3.1 according to EN 10204 for wetted parts  no others: .....

Accessories

(e. g. process connection pieces, flushing ring etc.) .....

Mounting

see page 2



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**Heading**

**7**

**07/09**

# Check List for Pressure Measuring Instruments with Chemical Seal

**Mounting** according to drawing no.: .....

**ref. drawing 16-21** Length of capillary line L = ..... m H = ..... m

with PE-cover flexible armour other specifics: .....

**ref. drawing 1-15** Cooling element yes,  KEIv to 150 °C (302 °F), length 110 mm (4.33")

KEIvR to 150 °C (302 °F), length 78 mm (3.07")

KEIv to 250 °C (482 °F), length 200 mm (7.87")  specifics  no

See additional form for drawings of differential pressure gauges for level- and flow-through measurement.

## Directly mounted Diaphragm Seal (MDM)

Drawing 1



Bottom connection

Drawing 2



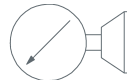
Connection at 9 o'clock

Drawing 3



Connection at 12 o'clock

Drawing 4



Connection at 3 o'clock

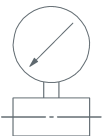
Drawing 5



Back connection

## Directly mounted In-line seal (RDM)

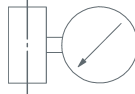
Drawing 6



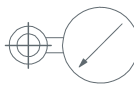
Drawing 7



Drawing 8



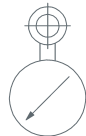
Drawing 9



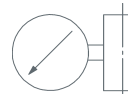
Drawing 10



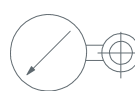
Drawing 11



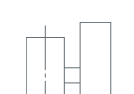
Drawing 12



Drawing 13



Drawing 14

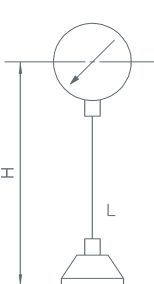


Drawing 15

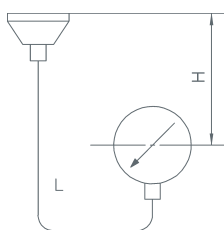


## MDM Mounting with Capillary Line

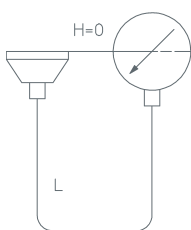
Drawing 16



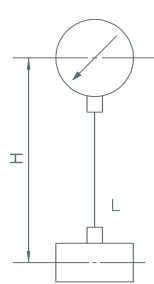
Drawing 17



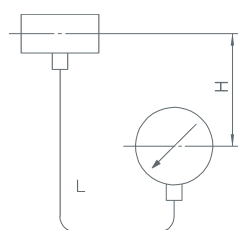
Drawing 18



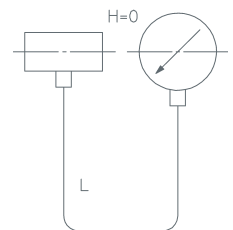
Drawing 19



Drawing 20



Drawing 21



For mounting with capillary line the drawings 16 to 21 show only pressure gauges with bottom connection at 6 o'clock. Please combine the drawings for other connection positions of the measuring instrument.

Example: Pressure gauge with back connection, mounted 3 m above an in-line seal, length of capillary line 5 m

➔ **Description:** Mounting according to drawing no. 15, 19, length of capillary line L = 5 m (16.40 ft), H = 3 m (9.84 ft)

### Important notes for mounting with capillary line

➔ If vacuum occurs or possibly could occur, the pressure measuring instrument has to be mounted at least 40 cm (15.75") below the chemical seal (drawing 17 for MDM, drawing 20 for RDM).

➔ The pressure measuring instrument requires a mounting device if it is connected with a capillary line. (compare page 1, first paragraph)

### Specifics:

Instruments are being autoclaved at 130 °C (266 °F)

required control volume for mounting of instruments of external brands : .....

others: .....