

# Check List Differential Pressure Gauges with Chemical Seals

Inquiry- / Project- / Order-No.

Name / Address / Phone / E-Mail

Application (short description)

Quantity

Pressure measuring instrument / if applicable electrical accessories (ordering code resp. description of the instrument)

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)

Models

+ side: ..... – side: .....

Installation to Ex-Zone 0

yes (with Adapt FS according to data sheet 11001)  no

Process connection

..... DN: ..... PN: .....

for RDM

suitable for tube diameter ..... mm

for MDM with extension

length of extension tube ..... mm

Medium

gaseous  liquid  viscous  abrasive

if pressure range is not known, density  $\rho$  ..... g / cm<sup>3</sup>

Material of wetted parts

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

max. differential pressure

..... bar

max. static pressure

..... bar

required overrange

one-sided  double-sided ..... bar

protection of the instrument

Could vacuum occur?

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

at temperature ..... °C

Working temperature ( $t_A$ )

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

dial inscription  $t_A$  = ..... °C (will be calibrated)

Cleaning temperature ( $t_R$ )

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

Ambient temperature ( $t_{UP}$ )

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

Ambient temperature ( $t_{UF}$ )

at capillary lines ..... °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: .....

Continuation on page 2



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

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

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

length of capillary line<sup>1)</sup>  $L_1 + \text{side} = L_2 - \text{side}$ : ..... m  $L_1 \neq L_2$  only upon request:  $L_1 =$  ..... m  $L_2 =$  ..... m

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

height difference  $H_1 + \text{side}$  ..... m  $H_2 - \text{side}$  ..... m

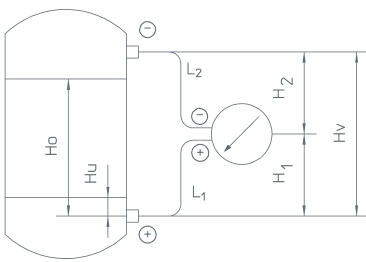
level height  $H_u$  min: ..... m  $H_o$  max: ..... m

distance of connection pieces  $H_v$  : ..... m

<sup>1)</sup> Please note: length of capillary line  $L_1 / L_2$  has to be larger than  $H_1 / H_2$

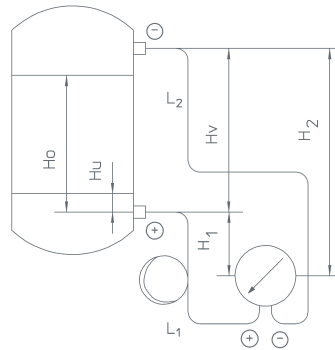
## Level Measurement

**Drawing 22**



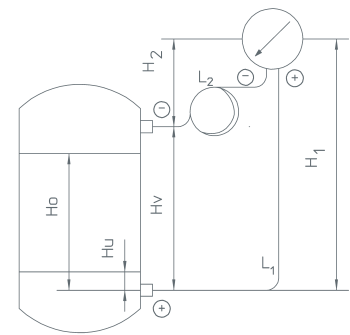
Measuring instrument centric between the connection pieces

**Drawing 23**



Measuring instrument below lower connection piece

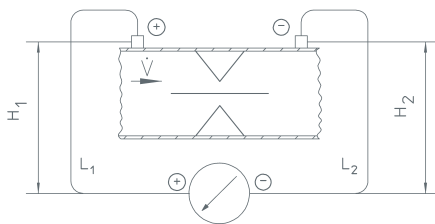
**Drawing 24**



Measuring instrument above upper connection piece

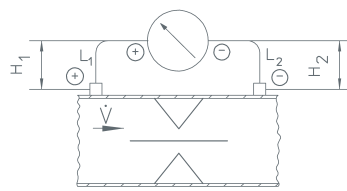
## Level Measurement

**Drawing 25**



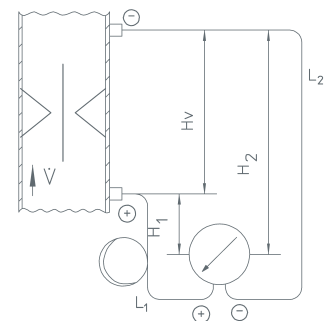
Horizontal flow measurement, measuring instrument below pipeline

**Drawing 26**



Horizontal flow measurement, measuring instrument above pipeline

**Drawing 27**



Vertical flow measurement, measuring instrument below lower connection piece

### 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 (drawings 23 or 27 only!)

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

➔  $H_1$  max. height 7 m (22.97 ft) for oil filling  
 $H_1$  max. height 4 m (13.12 ft) for holocarbon oil filling

**Specifics:**

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