

# Checklist Differential Pressure Gauges with Chemical Seal



Heading 5 + 7

Inquiry / Project / Order No.	Name / Address / Phone / E-Mail	Date
<b>Application</b> (short description)		<b>Quantity</b>
<b>Pressure Measuring Instrument/Electrical Accessory, if Applicable</b> (ordering information or description of the device provided)		

Please note: A mounting device for the measuring instrument is required for chemical seal mountings with capillary line:  
 gauge holder bracket with distance "D"  60 mm (2.36")  100 mm (4")  160 mm (6")  aluminum black  stainless steel  
 front flange for panel mounting  
 back flange for surface mounting

## Chemical Seal

<input type="checkbox"/> <b>Diaphragm seal (MDM)</b>	<input type="checkbox"/> <b>In-line seal (RDM)</b>
<b>Type</b>	+ side: ..... - side: .....
<b>Standard</b>	<input type="checkbox"/> DIN <input type="checkbox"/> ASME <input type="checkbox"/> JIS
<b>Installation to Ex-Zone 0</b>	<input type="checkbox"/> yes (with Adapt FS acc. to data sheet 11001) <input type="checkbox"/> no
<b>Process connection</b>	..... DN/NPS ..... PN/Class .....
<b>For RDM</b>	suitable for internal tube diameter ..... mm
<b>For MDM with extension tube</b>	extension tube length ..... mm
<b>Medium</b>	<input type="checkbox"/> gaseous <input type="checkbox"/> liquid <input type="checkbox"/> viscous <input type="checkbox"/> abrasive
	if pressure range is not known, density $\rho$ ..... g / cm <sup>3</sup>
<b>Material wetted parts</b>	<input type="checkbox"/> standard, acc. to data sheet special material: .....
<b>Max. differential pressure</b>	..... bar
<b>Max. static pressure</b>	..... bar
<b>Required overrange protection of the instrument</b>	<input type="checkbox"/> one-sided <input type="checkbox"/> double-sided ..... bar
<b>Can vacuum occur?</b>	<input type="checkbox"/> yes, smallest absolute pressure ..... mbar at a temperature of ..... °C
	<input type="checkbox"/> no
<b>Operating temperature (t<sub>A</sub>)</b>	medium ..... °C steady, or min. .... °C/max. .... °C
	dial inscription t <sub>A</sub> = ..... °C (will be calibrated)
<b>Cleaning temperature (t<sub>R</sub>)</b>	at the chemical seal max. .... °C / cleaning duration ..... h
<b>Ambient temperature (t<sub>up</sub>)</b>	at the pressure measuring instrument ..... °C steady, or min. .... °C/max. .... °C
<b>Ambient temperature (t<sub>up</sub>)</b>	at the capillary line ..... °C steady, or min. .... °C/max. .... °C
<b>Outdoor use</b>	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>Filling liquid</b>	<input type="checkbox"/> selection according to abovementioned temperature specifications
	further requirements: <input type="checkbox"/> for oxygen <input type="checkbox"/> for chlorine <input type="checkbox"/> silicone-free
	<input type="checkbox"/> food compatible <input type="checkbox"/> FDA approved
	others: .....
<b>Continuation</b>	see page 2

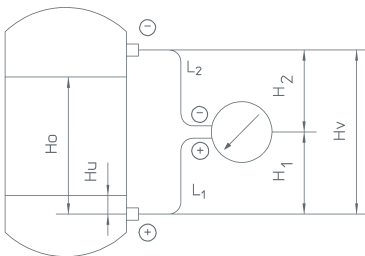
# Checklist Differential Pressure Gauges with Chemical Seal

<b>Certificate</b>	<input type="checkbox"/> 3.1 acc. to DIN EN 10 204 for wetted parts	<input type="checkbox"/> no	others: .....
<b>Accessory</b>	e.g. process connection pieces, flushing ring: .....		
<b>Mounting</b>	according to drawing no.: .....		
	capillary line length <sup>1)</sup> $L_1$ +side = $L_2$ -side: ..... m $L_1 \neq L_2$ only upon request: $L_1 =$ ..... m $L_2 =$ ..... m		
	<input type="checkbox"/> PE-cover spiral protection hose	other specialty: .....	
height difference	$H_1$ +side ..... m	$H_2$ -side ..... m	
level height	$H_u$ min. .... m	$H_o$ max. .... m	
distance of connection pieces	$H_v$ ..... m		

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

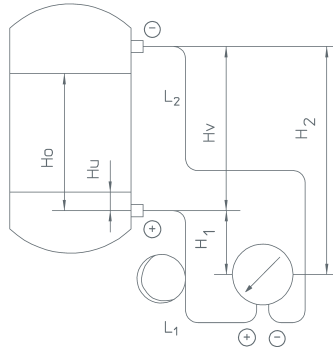
## Level Measurement

**Drawing 22**



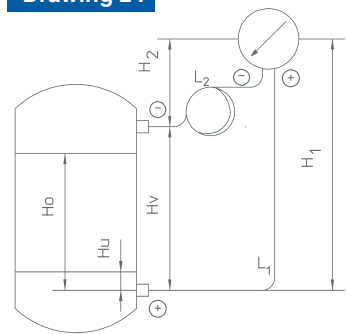
measuring instrument centric between connection pieces

**Drawing 23**



measuring instrument below the lower connection piece

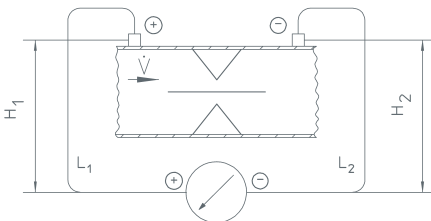
**Drawing 24**



measuring instrument above the upper connection piece

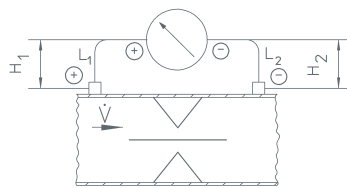
## Flow Measurement

**Drawing 25**



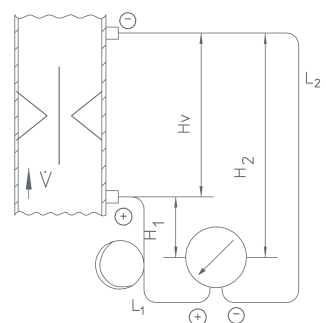
horizontal flow measurement measuring instrument below pipeline

**Drawing 26**



horizontal flow measurement measuring instrument above pipeline

**Drawing 27**



vertical flow measurement measuring instrument below the lower connection piece

## Important Information Concerning the Mounting with Capillary Line

- ➔ If vacuum occurs or might occur, the pressure measuring instrument needs to be mounted at least 40 cm (15.75") below the chemical seal. Mounting then only according to drawing 23 or 27!
- ➔ The measuring instrument requires a mounting device if it is mounted with a capillary line (cf. top of page 1).
- ➔  $H_1$  max. height 7 m (22.97') for oil filling  
 $H_1$  max. height 4 m (13.12') for halocarbon oil filling

**Specifics:**
