Checklist Pressure Measuring Instruments with Chemical Seal

ARMANO

Heading 7

Inquiry / Project / Order No.	Name / Address / Phone / E-Mail	Date

Application (short description) **Quantity**

Pressure Measuring Instrument/Electrical Accessory, if Applicable (ordering information)

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

☐ **Diaphragm seal (MDM)** ☐ **In-line seal (RDM)** ☐ **Capsule seal (TDM)**

Type	.....			
Standard	☐ DIN	☐ ASME	☐ JIS	
Installation to Ex-Zone 0	☐ yes (with Adapt FS acc. to data sheet 11001)		☐ no	
Process connection	.....		DN/NPS	PN/Class .....
For RDM	suitable for internal tube diameter ..... mm			
For MDM with extension tube	extension tube length ..... mm			
Medium	☐ gaseous	☐ liquid	☐ viscous	☐ abrasive
Material wetted parts	☐ standard, acc. to data sheet		special material:	
Max. operating pressure	static ..... bar / dynamic from ..... to ..... bar / frequency ..... Hz			
Can vacuum occur?	☐ yes, smallest absolute pressure ..... mbar		at a temperature of ..... °C	
	☐ no			
Operating temperature (t_A)	medium ..... °C steady, or min. ..... °C / max. ..... °C			
	dial inscription t_A = ... °C (will be calibrated)			
Cleaning temperature (t_R)	at the chemical seal max. ..... °C / cleaning duration ..... h			
Ambient temperature (t_{UD})	at the pressure measuring instrument ..... °C steady, or min. ..... °C / max. ..... °C			
Ambient temperature (t_{UF})	at the capillary line ..... °C steady, or min. ..... °C / max. ..... °C			
Outdoor use	☐ yes	☐ no		
Filling liquid	☐ selection according to abovementioned temperature specifications			
	further requirements:	☐ for oxygen	☐ for chlorine	☐ silicone-free
		☐ food compatible	☐ FDA approved	
		others:		
Certificate	☐ 3.1 acc. to DIN EN 10 204 for wetted parts		☐ no	others: .....
Accessory	e.g. process connection pieces, flushing ring:			
Mounting	see page 2			

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10/2019

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Mounting	according to drawing no.: .....
Ref. drawing 16 – 21	capillary line length L = ... m H = ... m
	☐ with PE-cover spiral protection hose other specialty: .....
Ref. drawing 1 – 15	cooling element yes, ☐ KElRv up to +300 °C (+572 °F), length 100 mm (4") ☐ specialty

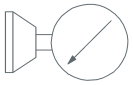
Drawings for differential pressure gauges for level and flow measurement see additional form.

Direct Mounting Diaphragm Seals (MDM)

Drawing 1

bottom connection

Drawing 2



connection 9 o'clock

Drawing 3

connection 12 o'clock

Drawing 4

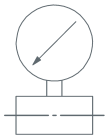
connection 3 o'clock

Drawing 5

back connection

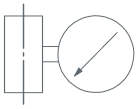
Direct Mounting In-line Seals (RDM)

Drawing 6

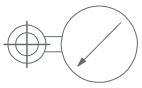


Drawing 7

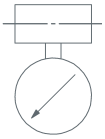
Drawing 8



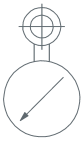
Drawing 9



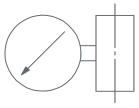
Drawing 10



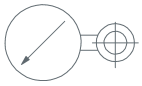
Drawing 11



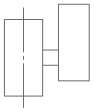
Drawing 12



Drawing 13



Drawing 14

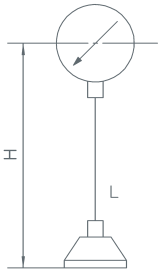


Drawing 15

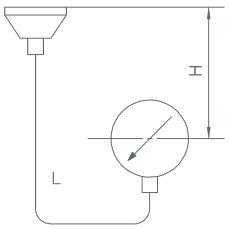
MDM Mounting with Capillary Line

RDM Mounting with Capillary Line

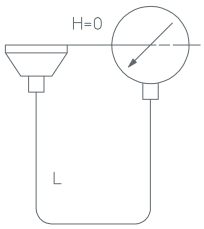
Drawing 16



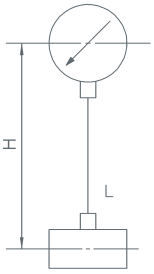
Drawing 17



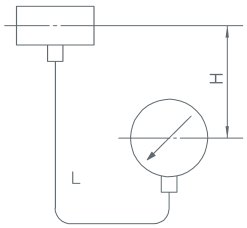
Drawing 18



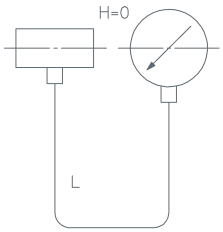
Drawing 19



Drawing 20



Drawing 21



In the drawings 16 to 21 for mounting with capillary line, only measuring instruments with bottom connection at 6 o'clock are depicted. However, if you require any other connection position at the measuring instrument, please combine the drawings!
Example: pressure gauge with **back** connection, mounted 3 m (9.84') **above** an in-line seal, capillary line length 5 m (16.4')
➡ **Description:** mounting according to drawing no. 15, 19, capillary line length L = 5 m, H = 3 m

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 (drawing 17 for MDM, drawing 20 for RDM).

➡ The measuring instrument requires a mounting device if it is mounted with a capillary line (cf. top of page 1).

Specifics:	☐ instruments are being autoclaved at +130 °C (+266 °F) at the customer's site
	required control volume for mounting of external brands: .....
	others: .....
	.....