Diaphragm Seal

Lightweight version, male thread PN 100, optional PN 250

<u>MDM 7210.L</u>

Information on applications, features, metrological influences such as temperature, level difference, floating time, etc., can be found in model overview 7000. Furthermore, you will find information on other chemical seal versions.

Construction

The diaphragm is welded to the upper part. The lower part with process connection and the upper part are connected by 8 screws

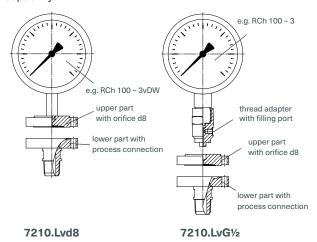
Bourdon tube pressure gauges, pressure switches, pressure transmitters, pressure transducers and other pressure measuring instruments can be equipped with diaphragm seals of this type series.

Model 7210.Lvd8 has an orifice d8 as instrument connection for welding to a pressure gauge with process connection d8x5, e.g. RCh 100 – 3vDW, a cooling element or a capillary line.

Leakage cannot occur at the welded connection of pressure gauge / upper part and the filling port that is not accessible externally. The parts can be easily cleaned externally.

 $\textbf{Model 7210.LvG} \% \ \text{has a gauge adapter with female thread for direct}$ mounting to measuring instruments with male thread.

The screwed connections pressure gauge / chemical seal and the filling port must not be loosened or opened, as otherwise filling fluid leaks and the pressure measuring unit loses its functional capability.



Standard Versions

Upper Part

Stainless steel 316L (1.4404)

Instrument Connection

orifice d8 7210.Lvd8 7210.LvG1/2 G1/2 female

Diaphragm

High-Soft Membrane stainless steel 316L (1.4435) welded with the upper part, helium leak detection up to 10-9 mbar l/s Effective diaphragm diameter dM = 32 mm (1.26")

Lower Part with Process Connection

Stainless steel 316L (1.4404), connection male thread 1/2" NPT

Nominal Pressure

PN 100



Temperature Resistance

Medium temperature max. +250 °C (+482 °F)

Attachment Flange and Screws with Nut

Made of galvanised steel 8.8, 8 screws and nuts M6

Sealing

Turned on, metallic

Minimum Span Pressure Gauges

0-1 har

for Bourdon tube pressure gauge RCh / RChG 100 - 3 without limit switch contact assembly (GSG)

t_k-Value (mbar/10K) (Temperature Coefficient of the Chemical Seal)

1.4 mbar / 10K (for silicone oil FA1)

Options

- · Instrument connection G1/4 female
- Nominal pressure PN 250

Special Versions Upon Request

- Other instrument connections, whereas we do not recommend NPT female threads
- Other material combinations (process connection, membrane) than those on page 2
- Other pressure measuring instruments

Accessory

Capillary line, cooling elements see data sheets 7.7002 and

available upon request Other accessory

Mounting / Filling / Certificates

Information concerning mounting, filling and on certificates are available upon request.

Ordering Information Chemical Seals

See page 2

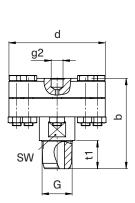
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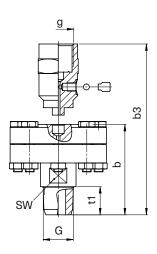


Connection, Dimensional Data and Weight, Ordering Information and Options

Male Thread Connection

1/2" NPT





Dimensional Data (mm/inch) and Weight (kg/lb)									
G	b	b3	t1	d	g	g2	SW	approx. vd8x5	weight vG½
½" NPT	61 2.4	104 4.09	19 0.75	65 2.56	G1⁄2	d8	21 0.83	0.84 1.85	0.97 2.14

Orc	lerina	Infor	mod	OB
Olu	emu	ши	mau	ш

Basic Model	Diaphragm	Seal	MDM 7210.L	
The reference temperatu	ıre is +20 °C (+	-68 °F).		
Please specify if an opera	ating tempera	ture (t_A) deviating from +20 °C (+68 °F) is required (dial inscription	t _A)	
Instrument connectio		r direct welding with measuring instrument g element or capillary line)	vd8	
	standard	G½ female	vG½	
	option	G¼ female	vG1⁄4	
Nominal pressure	standard	PN 100	PN 100	
	option	PN 250 high-strength screws made of steel 12.9	PN 250	
Process connection	standard	½" NPT	½" NPT	
male thread	options	G½B	G½B	
		M 20x1.5	M 20x1.5	
		G¼B	G1/4B	
		others upon request		
			4	
Example		MDN	/I 7210.LvG½, PN 100, ½" NPT	

Special Versions: Please describe your requirements in cleartext!