

labom

Diaphragm seal VARIVENT® for VARINLINE® access unit Type series DL8080

Features

- Flush-mounted separating diaphragm of stainless steel, laser welded
- Alternative with reinforced diaphragm in LTC technology (reduced temperature influence)
- Volume optimised diaphragm base
- EHEDG-certified
- System fillings for different applications
- Measuring device connection:
 - directly welded
 - directly screwed
 - with temperature decoupler
 - with capillary

Options

- Certificates
- Material certificate acc. to EN 10204-3.1
- Electropolishing (wetted parts)
- Hygienic design with advanced surface quality
- Special materials upon request

Application

Suitable for mounting to bourdon tube pressure gauges and pressure transmitters. The diaphragm seal for VARINLINE® access unit is used mainly for dead-zone free pressure measurement.





Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

Technical data

Constructional design

lush-mounted diaphragm, laser welded; lternative with reduced temperature fluence and reinforced diaphragm in TC technology. _TC=Low Temperature Coefficient) urther details see General technical iformation TA_031.		
Diaphragm: Stainless steel matno. 1.4435 (316L) Further materials upon request Basic body: Stainless steel matno. 1.4404/1.4435 (316L)		
on		
ARIVENT® connection for VARIN- INE [®] access unit Form B (D = 31) Form F (D = 50)		

Form N (D = 68)

Nominal pres- See table sure:

- - -

Sealing are not included in the scope of delivery.

Measuring device connection

See order details. Material stainless steel mat.-no. 1.4301 (304)

System filling

See order details; further upon request.

Further details about pressure transmission fluids see general technical information TA_038.

Hygienic design

The surface roughness of the wetted parts made of stainless steel are executed according to EHEDG Doc.8 and ASME BPE SF3.

In case of choosing the additional feature HY, we guarantee the following surface roughness values:

Diaphragm foil:	Ra ≤ 0.38 µm
Laser welds:	Ra ≤ 0.76 µm
Turned parts:	Ra ≤ 0.76 µm

Further versions of hygienic design upon request.

Temperature error

In order to optimise the system we provide a detailed error calculation upon request.

Weight

For process connection Form B (D = 31): ca. 0.3 kg Form F (D = 50): ca. 0.6 kg Form N (D = 68): ca. 0.8 kg

Further information about diaphragm seals see general technical information TA_031.

Measuring device connection



Dimensions



VARIVENT® connection for VARINLINE® access unit

connection	D	dM	Α	h	PN
Form B	31	17.5	52.7	20	25
Form F	50	40	66	19	25
Form N	68	58	84	19	25

Dimensions are in mm

Diaphragm seal,

VARIVENT® for VARINLINE® acc	ess unit, Type series DL8080
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Order details I	DL8080				
DL8080	design	VARIVENT® for VARINLINE® access unit			
	aurfaga raughnaga	standard			
НҮ	surface roughness	Hygienic version as per EHEDG Doc.8 and ASME BPE SF3			
D15		Form B (D=31) for VARINLINE® access	s unit		
D40	VARIVENT® ^{connection 1,2,3}	Form F (D=50) for VARINLINE® access unit			
D58		Form N (D=68) for VARINLINE® access unit			
G7		stainless steel matno. 1.4435 (316L)			
G7L	diaphragm material	stainless steel matno. 1.4435 (316L), o	stainless steel matno. 1.4435 (316L), diaphragm in LTC technology ⁴		
G9		variant			
A400		directly	welded		
A300		directly	screwed G1/2		
A100		with temperature decoupler	screwed G1/2		
B40		with capillany	welded		
B20		with capillary	screwed G1/2		
B50		with capillary and stainless steel pro-	welded		
B10		tective tube	screwed G1/2		
11			1 m		
12	measuring device connection	conillon / longth	1.6 m		
13			2.5 m		
14			4 m		
21			5 m		
15		capillary length	6 m		
23			7 m		
16			8 m		
17			10 m		
9			others		
		pressure transmission fluid	temperature range ⁶		
L22	ouston filling ⁵	synthetic oil, free of silicone FD1, standard	-10140 °C		
L23	System mining	synthetic oil, free of silicone FD1, please specify max. temperature	-50230 °C		
L15		glycerine/water FGW	-30110 °C		

Additional features (to be indicated in case of need, only)		
W1020	material certificate acc. to EN 10204-3.1, wetted parts	
W4035	electropolishing of wetted parts	

Order code (example): DL8080 - D58 - G7 - A400 - L22 - ...

¹ additional designs upon request

- 2 EHEDG certified only in connection with hygienic design (order code option HY)
- ³ EHEDG certificate valid only if gaskets are used that are listed in the "EHEDG position paper"
- ⁴ for Form N (D= 68) only

⁵ further and detailed Informations to pressure transmission fluids see TA_038. Please state temperature range to allow an accurate calculation of the system.

⁶ max. media temperature for pressures > 0 bar rel.