

Diaphragm seal in pulp industry Type series DD8010



Application area

- Machinery construction
- Pulp industry
- General process technology

Features

- Flush-mounted separating diaphragm of stainless steel or special material
- Volume optimised diaphragm base
- Loose clamping flange
- System fillings for different applications
- Measuring device connection:
 - directly welded
 - directly screwed
 - with temperature decoupler
 - with capillary

Options

- Labom REconnect quick coupling device for easy and safe separation and connection of diaphragm seal systems. Available with a wide range of pressure gauges and pressure transmitters; Type series MK1000, see data sheet DB_D6-022
- Certificates
 - Material certificate acc. to EN 10204-3.1
- Special materials upon request

Application

Suitable for mounting to bourdon tube pressure gauges and pressure transmitters.

Technical data

Constructional design

Basic body:	Volume reduced diaphragm base Material: stainless steel mat.-no. 1.4404/1.4435 (316L)
Clamping flange:	Material: Stainless steel mat.-no. 1.4301 (304)
Diaphragm:	Flat diaphragm
Material wet- ted parts:	Diaphragm: Stainless steel mat.-no. 1.4435 (316L) Further materials upon request Basic body: Stainless steel mat.-no. 1.4404/1.4435 (316L)

Process connection

Design:	Extended diaphragm with loose clamp- ing flange
Nominal width:	DN 48
Nominal pres- sure:	PN 40

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 gen-
eral technical information TA_038.

Temperature error

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

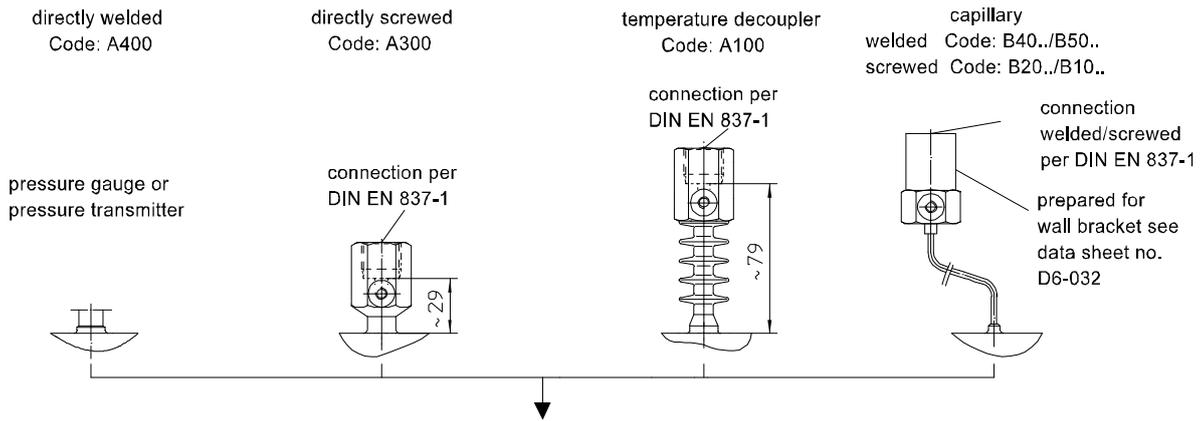
Weight

With measuring device connection G1/2 approx. 2.4 kg

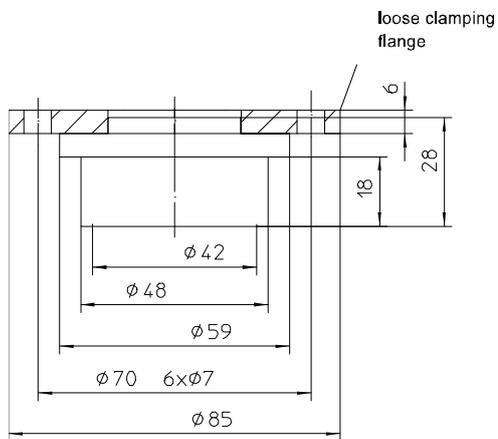
**Further information about diaphragm seals see general
technical information TA_031.**

**Flame arrester MF21xx for connection of measuring de-
vices to zone 0 see data sheet D6-025.**

Measuring device connection



Dimensions



Order details

Diaphragm seal, pulp industry Type series DD8010

Order details diaphragm seal DD8010

DD8010	design	extended diaphragm with loose clamping flange, DN 48		
G1	material wetted parts	stainless steel mat.-no. 1.4404/1.4435 (316L), standard		
G2		diaphragm: Tantal, basic body: stainless steel mat.-no. 1.4404 (316L)		
G3		diaphragm: Hastelloy C276, basic body: stainless steel mat.-no. 1.4404 (316L)		
G9		variant		
A400	measuring device connection	directly	welded	
A300			screwed G1/2	
A100		with temperature decoupler	screwed G1/2	
B40 . .		with capillary	welded	
B20 . .			screwed G1/2	
B50 . .		with capillary and stainless steel protective tube	welded	
B10 . .			screwed G1/2	
11		capillary length	1 m	
12			1.6 m	
13			2.5 m	
14			4 m	
21			5 m	
15			6 m	
23			7 m	
16			8 m	
17			10 m	
9	others			
	system filling ¹	<u>pressure transmission fluid</u>	<u>temperature range</u> ²	
L22		synthetic oil, free of silicone FD1, standard	-10...140 °C	
L23		synthetic oil, free of silicone FD1, pls. specify max. temper- ature	-40...230 °C	

Additional features (to be indicated in case of need, only)

W1020	material certificate per EN 10204-3.1, wetted parts
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Order code (example): DD8010 - G1 - A400 - L22 - ...

¹ for more detailed information about pressure transmission fluids see TA_038.
Please state temperature range to allow an accurate calculation of the system.

² max. media temperature for pressures > 0 bar rel.