

Diaphragm seal for homogenizers Type series DD8020



Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

Features

- Flush-mounted separating diaphragm of stainless steel
- Nominal pressure PS 400, PS 600 and PS 1000
- Clamping flange, adjustable
- Volume optimised diaphragm base
- System fillings for different applications
- Measuring device connection:
 - directly welded
 - directly screwed
 - with capillary

Options

- Certificates
 - Test report per EN 10204-2.2
 - Material certificate per EN 10204-3.1
- Free of oil and grease

Application

Suitable for mounting to bourdon tube pressure gauges and pressure transmitters. The diaphragm seal is used for high pressure applications and for high viscous media.

Technical data

Constructional design

- Variants:
- Pressure range up to 400 bar overload protected up to 600 bar process temperatures -10...200 °C
 - Pressure range up to 600 bar overload protected up to 600 bar process temperatures -10...150 °C
 - Pressure range up to 1000 bar overload protected up to 1000 bar process temperatures -10...100 °C

Further pressure and temperature ranges upon request.

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 wetted 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: Clamping flange adjustable
Nominal pressure: PS 400, PS 600 and PS 1000

Special design:
A delivery without clamping flange is possible.

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.

Temperature error

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

Weight

With measuring device connection G1/2 approx. 1.1 kg

Further information about diaphragm seals see general technical information TA_031.

Measuring device connection

directly welded
Code: A400

directly screwed
Code: A300

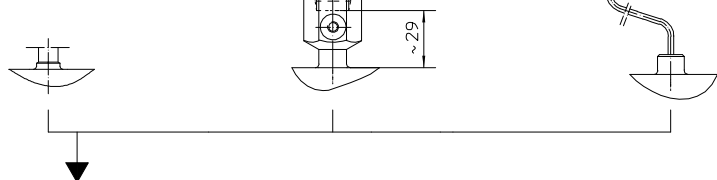
capillary
welded Code: B40../B50..
screwed Code: B20../B10..

pressure gauge or
pressure transmitter

connection per
DIN EN 837-1

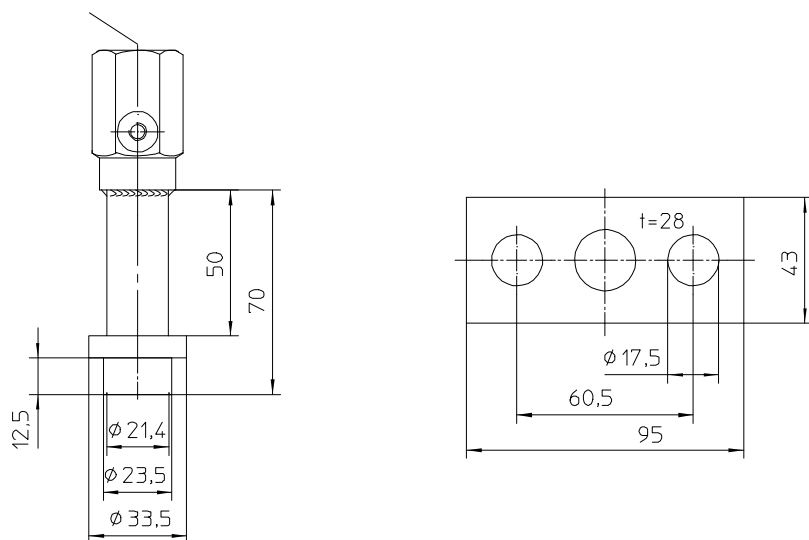
connection
welded/screwed
per DIN EN 837-1

prepared for
wall bracket see
data sheet no.
D6-032



Dimensions

connection G1/2
per DIN EN 834-1



Order details

Diaphragm seal for homogenizers			
DD8020	diaphragm seal for homogenizers		
G1	wetted parts	stainless steel mat.-no. 1.4404/1.4435 (316L)	
G9		variant	
K4	connection	clamping flange adjustable, material stainless steel	PS 400 bar
K1			PS 600 bar, standard
K3			PS 1000 bar
K2		without clamping flange	
A400	measuring device connection	directly	welded ¹
A300			screwed G1/2
B40 . .		with capillary	welded ¹
B20 . .			screwed G1/2 ¹
B50 . .		with capillary and stainless steel protective tube	welded ¹
B10 . .			screwed G1/2 ¹
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 ²	<u>pressure transmission fluid</u>	<u>temperature range</u> ³
L22		synthetic oil, free of silicone FD1, standard	-10...140 °C
L23		synthetic oil, free of silicone FD1, pls. specify max. temperature	-40...230 °C
L15		glycerine/water FGW	-30...110 °C

Additional features (to be indicated in case of need, only)	
W1020	material certificate per EN 10204-3.1, wetted parts
W1101	test report per EN 10204-2.2
W4002	free of oil and grease

Order code (example): DD8020 - G1 - K1 - A400 - L22 - ...

¹ Max. nominal pressure PS 400 bar.

² For more detailed information about pressure transmission fluids see TA_038.
Please state temperature range to allow an accurate calculation of the system.

³ Max. media temperature for pressures > 0 bar rel.