



# Diaphragm seal for high pressure applications welded design with screw-in tread

## Type series DD8050



#### **Application area**

- Machinery construction
- Chemical and petrochemical industry
- General process technology

#### **Features**

- Completely welded design
- Suitable for pressure up to 600 bar
- Volume optimised diaphragm base
- Process connection G1/2 A and 1/2" NPT
- System fillings for different applications
- Measuring device connection:
  - directly welded
  - directly screwed
  - with temperature decoupler
  - with capillary

#### **Options**

- NACE compliant
- Oxygen free of oil and grease
- Material certificate acc. to EN 10204-3.1

#### **Application**

Tel.: 03303 / 504066

Fax: 03303 / 504068

Suitable for mounting to bourdon tube pressure gauges and pressure transmitters. The diaphragm seal welded design is suited for measuring aggressive media and for high process temperatures.

#### **Technical data**

#### Constructional design

Design:

PN 60

max. pressure 60 bar at max. 200 °C

PN 600

max. pressure 600 bar at max. 200 °C

Higher pressure stages upon request.

Diaphragm:

Flat diaphragm

Material wetted

Diaphragm:

parts:

Stainless steel mat.-no. 1.4435 (316L),

alternative Hastelloy C276. Further materials upon request.

Basic body:

Stainless steel mat.-no. 1.4404/1.4435 (316L), alternative Hastelloy C276

Further materials upon request.

#### **Process connection**

Design:

G1/2 A per EN 837-1

1/2" NPT per EN 837-1

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

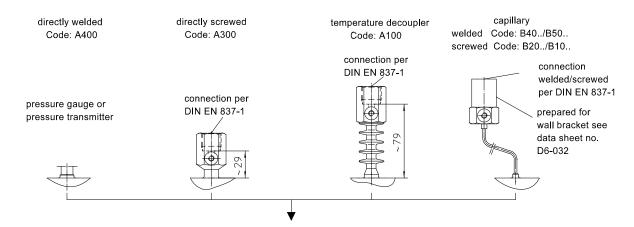
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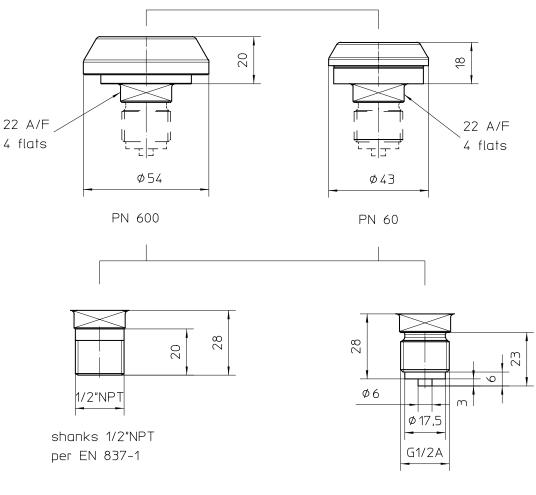
Without measuring device connection approx. 360 g (PN 600).

Further information about diaphragm seals see general technical information TA\_031.

# Measuring device connection



## **Dimensions**



shanks G1/2A per EN 837-1

# Order details

# Diaphragm seal for high pressure applications, welded design Type series ${\tt DD8050}$

Order details diaphragm seal DD8050				
DD8050	Diaphragm seal for high pressure applications, welded design			
D3	PN 60			
D6	nominal pressure	PN 600		
10	process connection	G1/2 A		
51		1/2" NPT		
E1	- material	basic body/process connection	stainless steel matno. 1.4404/1.4435 (316L)	
E3			Hastelloy C 276	
G7		diaphragm	stainless steel matno. 1.4435 (316L)	
G3			Hastelloy C 276	
A400	measuring device connection	directly	welded	
A300			screwed G1/2	
A100		with temperature decoupler	screwed G1/2	
В40		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 <sup>1</sup>	pressure transmission fluid	temperature range <sup>2</sup>	
L22		synthetic oil, free of silicone FD1, standard	-10140 °C	
L23		synthetic oil, free of silicone FD1, pls. specify max. tem- perature	-40230 °C	
L15		glycerine/water FGW	-30110 °C	

Additional features ( to be indicated in case of need, only)		
W1020	material certificate per EN 10204-3.1, wetted parts	
W1030	NACE compliant, material certification per MR-0175	
W4001	Oxygen free of oil and grease	

Order code (example): DD8050 - D310 - E1 - G1 - A400 - L22 - ...

<sup>&</sup>lt;sup>1</sup> for more detailed information about pressure transmission fluids see TA\_038. Please state temperature range to allow an accurate calculation of the system.

<sup>&</sup>lt;sup>2</sup> max. media temperature for pressures > 0 bar rel.