

Diaphragm seal welded design Type series DD8030



Features

- Completely welded design
- Volume optimised diaphragm base
- Process connection G1/2 B or 1/2" NPT
- 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
- Special materials upon request

Application

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.

Application area

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

Technical data

Constructional design

Design:	<ul style="list-style-type: none">■ PN 60, max. pressure 60 bar, diaphragm Ø 62 mm■ PN 400, max. pressure 400 bar, diaphragm Ø 62 mm■ PN 1000, max. pressure 1000 bar, diaphragm Ø 27 mm
Basic body:	Volume reduced diaphragm base Material: stainless steel mat.-no. 1.4404/1.4435 (316L)
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:	G1/2 B male or 1/2" NPT male, see order details. Stainless steel mat.-no. 1.4571 (316Ti) Further designs upon request.
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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.

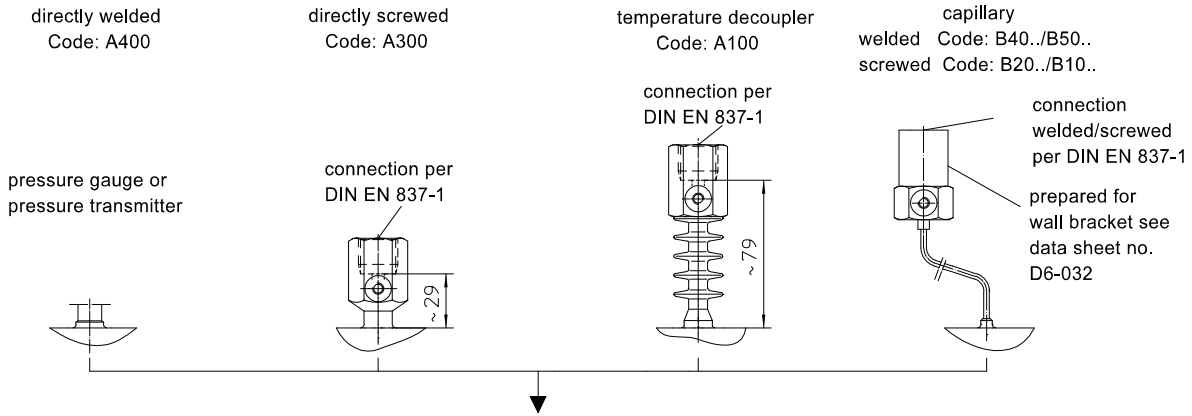
Weight

With measuring device connection G1/2:

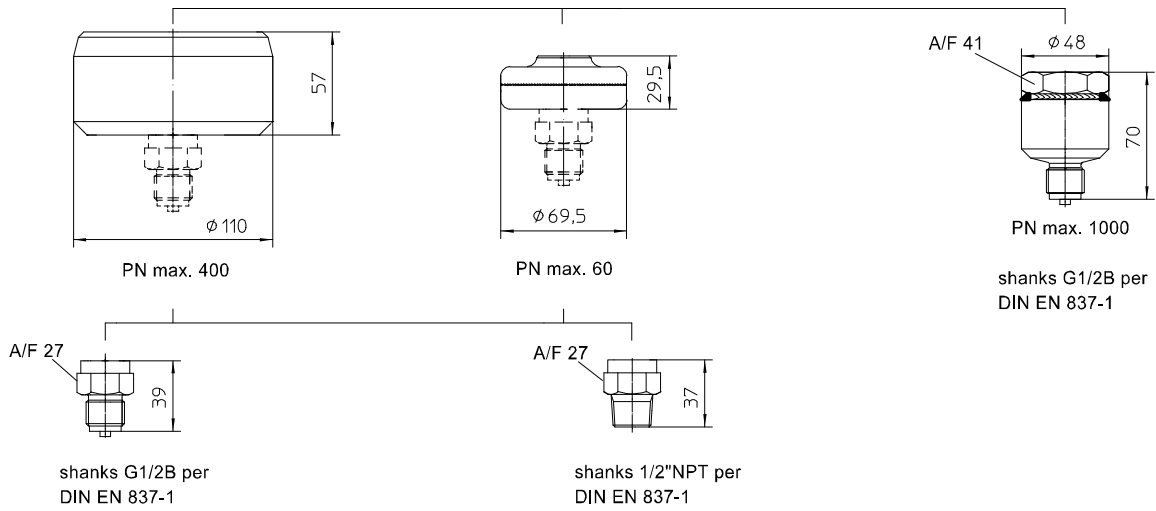
PN 60:	0.75 kg
PN 400:	4.5 kg
PN 1000:	0.85 kg

Further information about diaphragm seals see general technical information TA_031.

Measuring device connection



Dimensions



Order details

Diaphragm seal, welded design

Type series DD8030

Order details diaphragm seal DD8030

DD8030	diaphragm seal, welded design			
D1 ..	nominal pressure	PN 60		
D4 ..		PN 400		
D7 ..		PN 1000		
10	process connection	G1/2 B male		
51		1/2" NPT male (not with PN 1000)		
K1	material	process connection	stainless steel mat.-no. 1.4571 (316Ti)	
E1		basic body	stainless steel mat.-no. 1.4404/1.4435 (316L)	
G7		diaphragm	stainless steel mat.-no. 1.4435 (316L)	
G3			Hastelloy C 276	
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. temperature		-40...230 °C	
L31	high temperature oil FV3H		-10...400 °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): DD8030 - D110 - K1 - E1 - G7 - 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.