

# Diaphragm seal for high temperature applications flange-type with diaphragm extension, Type series DB90..



#### **Features**

- Recessed diaphragm of stainless steel, laser welded
- Extension length: 91 mm
- Measuring device connection:
  - screwed with temperature decoupler
  - welded with temperature decoupler

#### **Application**

Suitable for mounting to bourdon tube pressure gauges and pressure transmitters. The diaphragm seal in flange-type design with diaphragm extension is suited for the special applications in plastics processing.

#### **Application area**

Plastics processing

#### **Technical data**

#### Constructional design / case

Design: Flange-type design,

extension length: 91 mm, Special lengths upon request,

connection flange Ø 90 mm, with 4 bore

holes d= 13 mm and 2 disassembly threads M12

Material basic

stainless steel mat.-no. 1.4404 (316L)

body:

stainless steel mat.-no. 1.4404 (316L)

Material clamping flange:

Material diaphragm: stainless steel mat.-no. 1.4435 (316L)

#### Measuring device connection

Design: 

With temperature decoupler screwed

■ With temperature decoupler welded

#### System filling

See order details; further fillings upon request.

Further details about pressure transmission fluids see general technical information TA\_038.

#### **Temperature ranges**

Medium: Up to 320 °C (short-term 350 °C), see

order details system filling.

Storage: -20...80 °C (for system filling FV3H)

0...70 °C (for system filling FMH1)

#### Temperature error

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

#### Installation position

Mounting position vertical

## Weight

Weight: With measuring device connection G1/2: ap-

prox. 1.8 kg, further weights upon request.

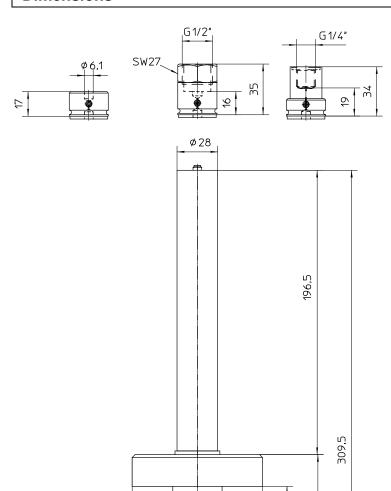
#### Accessories

 2 socket head screws M12 x 55 DIN 912, quality A 2-70 (for disassembly)

- 2 gaskets DIN 7603 A 27 x 32 AI
- 4 socket head screws M12 x 35 DIN 912, quality A2-70 (for mounting)

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

# **Dimensions**



ø 90

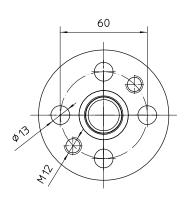
h = 91

30

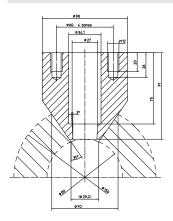
Ø 24,8

Ø34

9



## Weld-in adapter



# Order details

# Diaphragm seal for high temperature applications, Type series DB90..

Order details DB 90				
DB9001	design	diaphragm seal with connection flange $\varnothing$ 90 mm, with 4 bore holes d= 13 mm and 2 disassembly threads M12		
G7	material diaphragm	stainless steel matno. 1.4435 (316L)		
K1	material sealing surface/extension	stainless steel matno. 1.4404 (316L)		
F1	extension length	h = 91 mm		
A150	measuring device connection	with temperature decoupler (for temperatures up to 350 °C)	screwed G1/4" , model E	
A151			screwed G1/2" per EN 837-1	
A450			welded	
		pressure transmission fluid	temperature range	
L25	system filling	liquid metal FMH1	10320 C (short-term up to 350 °C)	
L31		high-temperature oil FV3H	-10320 C (short-term up to 350 °C)	

Accessories		
MX1005-A1-B1	2 gaskets DIN 7603 A 27 x 32 AI 2 socket head screws M12 x 55 DIN 912, quality A 2-70 (for disassembly)	
MZ8100-A21	4 socket head screws M12 x 35 DIN 912, quality A2-70 (for mounting)	

Order code (example): DB9001 - G7 - K1 - F1 - A150 - ....