

## Inline diaphragm seal for threaded pipe connection Type series DS1260



### Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

### Features

- Circular diaphragm of stainless steel, slightly grooved, laser welded
- Pipe connections 10x1,5 up to 20x2
- Volume optimised diaphragm base
- 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 for threaded pipe connections is used mainly for dead-zone free pressure measurement.

## Technical data

### Constructional design

Basic body:	Volume reduced diaphragm base Material: stainless steel mat.-no. 1.4404/1.4435 (316L)
Diaphragm:	Inline diaphragm
Material wetted parts:	Diaphragm: See order details  Basic body: Stainless steel mat.-no. 1.4404/1.4435 (316L)

### Process connection

Design:	DN 15, directly welded to pipe or connection to Swagelok- oder Ermeto screwing.
Nominal pressure, Nominal width:	See order details. Nominal pressure stages as per order details correspond with the threaded pipe connections per EN 10305-1. Maximum nominal pressure stage: PN 250. The nominal pressure stage of the pipe connection has to be observed.

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.

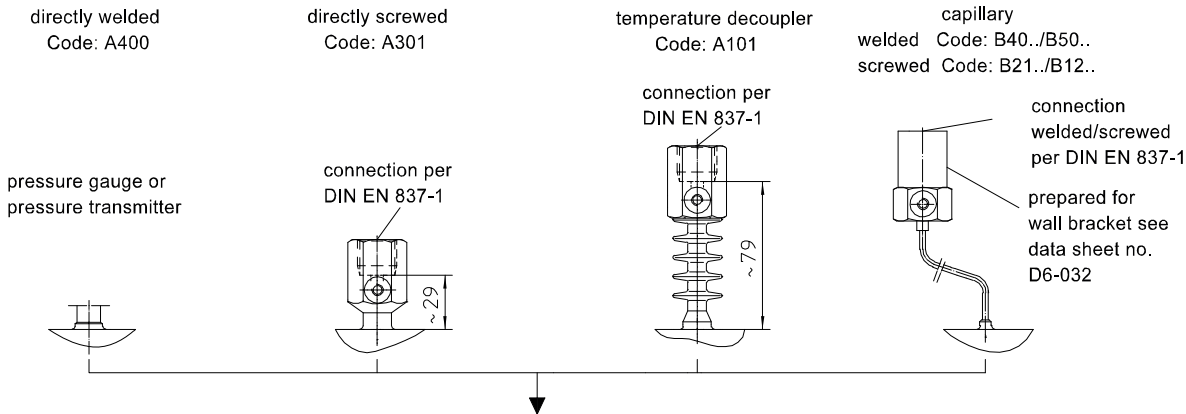
### Weight

With measuring device connection G1/4 approx. 1.0 kg

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

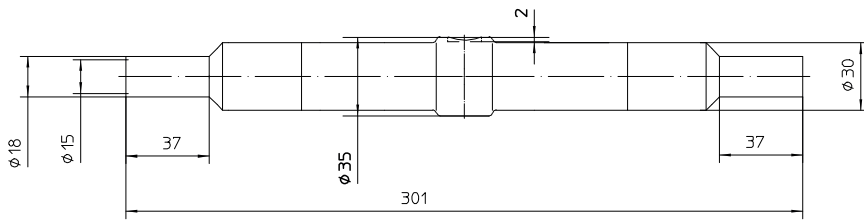
**Flame arrester MF21xx for connection of measuring devices to zone 0 see data sheet D6-025.**

## Measuring device connection



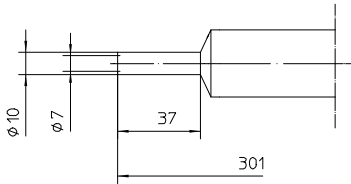
# Dimensions

pipe connection 18x1,5 [S66]

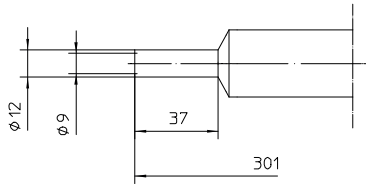


various sizes of pipe connections available

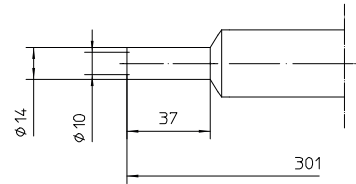
pipe connection 10x1,5  
Code: S54



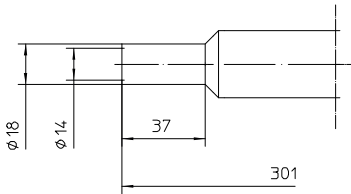
pipe connection 12x1,5  
Code: S58



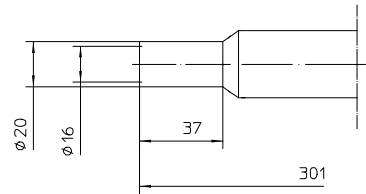
pipe connection 14x2  
Code: S60



pipe connection 18x2  
Code: S67



pipe connection 20x2  
Code: S70



## Order details

### Inline diaphragm seal with threaded pipe connection, Type series DS1260

Order details inline diaphragm seal DS1260				
<b>DS1260</b>	inline diaphragm seal DN 15 for threaded pipe connections <sup>1</sup>			
<b>S54</b>	connections both sides for pipes	10 x 1.5	PN 250	
<b>S58</b>		12 x 1.5	PN 250	
<b>S60</b>		14 x 2	PN 250	
<b>S66</b>		18 x 1.5	PN 160	
<b>S67</b>		18 x 2	PN 160	
<b>S70</b>		20 x 2	PN 250	
<b>F1</b>		insertion length L	total length 301 mm, pipe connections 37 mm	
<b>F9</b>	as in writing			
<b>G1</b>	material	wetted parts stainless steel mat.-no. 1.4435 (316L)		
<b>G99</b>		further materials as in writing		
<b>A400</b>	measuring device connection	directly	welded	
<b>A301</b>			screwed G1/4	
<b>A101</b>		with temperature decoupler	screwed G1/4	
<b>B40 . .</b>		with capillary	welded	
<b>B21. .</b>			screwed G1/4	
<b>B50 . .</b>		with capillary and stainless steel protective tube	welded	
<b>B12 . .</b>			screwed G1/4	
<b>11</b>		capillary length	1 m	
<b>12</b>			1.6 m	
<b>13</b>			2.5 m	
<b>14</b>			4 m	
<b>21</b>			5 m	
<b>15</b>			6 m	
<b>23</b>			7 m	
<b>16</b>			8 m	
<b>17</b>			10 m	
<b>9</b>			others	
		system filling <sup>2</sup>	<u>pressure transmission fluid</u>	<u>temperature range</u> <sup>3</sup>
<b>L22</b>			synthetic oil, free of silicone FD1, standard	-10...140 °C
<b>L23</b>	synthetic oil, free of silicone FD1, pls. specify max. temperature		-40...230 °C	
<b>L31</b>	high temperature oil FV3H		-10...400 °C	

Order code (example): **DS1260 - S54 - F1 - G1 - A400 - L22 - ...**

<sup>1</sup> further connections upon request

<sup>2</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>3</sup> max. media temperature for pressures > 0 bar rel.