

# DIAPHRAGM TYPE CHEMICAL SEAL MINIATURE DIAPHRAGM SEAL



DRUCK & TEMPERATUR

## Process connection: thread, rigid

Diaphragm seals transmit the process pressure to the pressure measuring device, with the diaphragm seal hermetically separating the medium and the measuring device.

Diaphragm seals of this series are suitable for aggressive, contaminated and hot media.

Due to its small dimensions, this diaphragm seal is suitable for solving simple measuring tasks where space is limited in connection with Bourdon tube pressure gauges.

The flush diaphragm is welded to the diaphragm seal. For extreme requirements, the wetted parts can be made of special materials.

### Areas of application:

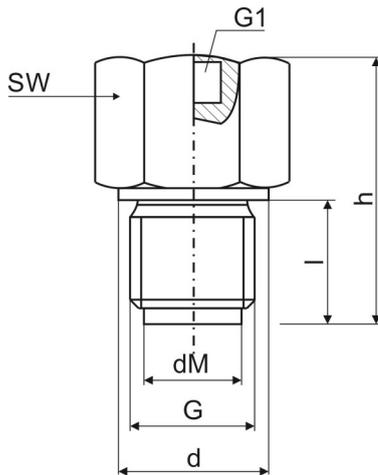
- Plant and apparatus engineering
- Process technology
- Chemical and petrochemical industry



Type	1010	Options
Process connection	G1/2B, G3/4B, G1B, G1¼B, G1½B, G2B male connection	Others on request
Thread	1.4404 male thread, rigid	
Instrument connection acc. to DIN 16288	G1/2B male - G1/4 female G3/4B, G1B, G1¼B, G1½B, G2B male - G1/2 female	
Diaphragm	1.4571, welded with upper body	Special materials on request
Effective membrane diameter dM	see dimension table at page 2	
Filling liquid	Silicone oil, almond oil, depending on the application	Others on request
Working temperature	Tmin. -10°C, Tmax. 120°C	Tmin. -40°C, Tmax. 300°C
Max. nominal pressure	PN 600	
More Options and accessories	<ul style="list-style-type: none"> <li>• Capillary line welded with upper part and connection for instrument mounting bracket, all in stainless</li> <li>• Cooling element for direct mounting when process temperature &gt; 100°C</li> </ul>	

Type 1010

## Dimensional drawing Dimensions in mm



G	G1	dM	SW	d	l	h	PN
G1/2B	G1/4	17	27	26	20	50	600
G3/4B	G1/2	22	32	32	20	50	
G1B		26,5	32	39	19	50	
G1¼B		37	41	50	20	50	
G1½B		40,5	50	56	20	55	
G2B		53,5	60	70	30	60	

### Important notes on the selection of chemical seals

The process pressure to be measured is transmitted from the diaphragm seal to the pressure measuring device with the help of a special liquid. The diaphragm seal and measuring device are often connected to one another via meter-long capillary lines, so that the two devices can have very different temperatures.

This means that temperature-related display errors are possible, which can be a multiple of the accuracy of the measuring device.

Matching of the chemical seal and pressure measuring instrument therefore requires expertise and we shall be pleased to assist you. We recommend you to request our special questionnaire on service conditions and order data.

### Ordering details

Types/process connection (size/norm)  
Material (wetted parts)  
Instrument connection  
Filling  
Attachment to pressure measuring device  
Operating conditions