

Capsule chemical seals

Process connection: male pipe thread
Or male running nut
Or female union nut



Description

Chemical seals are used when media can falsify the pressure measurements due to high temperature, high viscosity or their propensity to crystallise.

Chemical seals transmit the process pressure to the measuring instrument, with the diaphragm forming a hermetic seal between the medium and measuring instrument.

By the constructional condition and by different process connections capsule – chemical seals are particularly suitable for flowing, heterogeneous measuring materials, since they dive directly into the medium.

The medium wetted parts of these chemical seals are manufactured in stainless steel as standard. In connection with a Bourdon tube pressure gauge or a transducer, they are suitable for pressure ranges from 0...10 bar to 0...1600 bar.

The connection can be executed as capillary line with cooling element or according to customer request.

Features

- o Various process connections
- o For media up to 400°C
- o Sensor with medium
- o Suitable for high pressure
- o Simple mounting
- o Mountable on MSR-devices

Pressure ranges

0 ... 10 bar up to 0 ... 1600 bar


Rated pressure

Max. PN 1600

Applications

Plant and apparatus construction, process engineering, chemical and petrochemical industries.

Technical Details

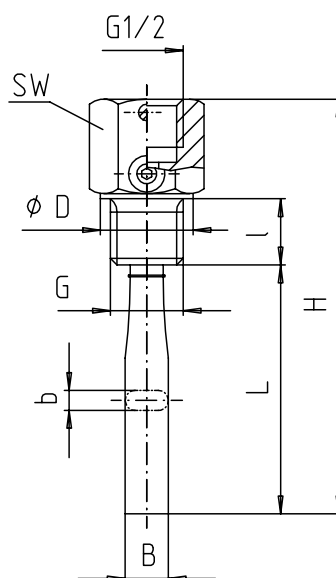
Types	1050			Options
Symbol				
Rated pressure	PN 1600			
Range	0 ... 10 bar to 0 ... 1600 bar			
Process connection	male pipe thread, fixed	male running nut, turnable	female union nut	Others on request
Thread / Capsule	G 1/2 B / 75 x 13 x 6 M 20x1,5 / 75 x 13 x 6 G 3/4 B / 100 x 18 x 7	G 1/2 B / 75x13x6 G 3/4 B / 100x18x7	G 1/2 fem/ 75 x 13 x 6 G 3/4 fem/ 100 x 18x7 G 1 female/ 100 x 18 x 7	
Material	stainless steel 1.4571	stainless steel 1.4571	stainless steel 1.4571	
Instrument connection	G 1/2 to DIN 16 288, Form Z			Others on request
Material	stainless steel 1.4571			
Capsule sensor	stainless steel 1.4571, welded with instrument connection			

Important notes on the selection of chemical seals

The process pressure to be measured is applied to the measuring instrument by the chemical seal with the aid of a liquid. The chemical seal and measuring instrument can be connected together by capillary lines (length up to max. 15m) for system related reasons and in order to prevent the exposure of measuring instruments to impermissibly high temperatures. The temperature drop between the instrumentation and control unit and the chemical seal can be several 100°C. Measuring errors resulting from temperature are therefore possible and may be of a magnitude several times the accuracy of the measuring instrument.

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.

Dimensions



G	Dimensions [mm]							Weight [kg]
	I	D	SW	L	B	b	H	
G 1/2 B	20	28	30	75	13	6	125	0,25
M 20 x 1,5	20	28	30	75	13	6	125	0,25
G 3/4 B	22	35	36	100	18	7	152	0,40