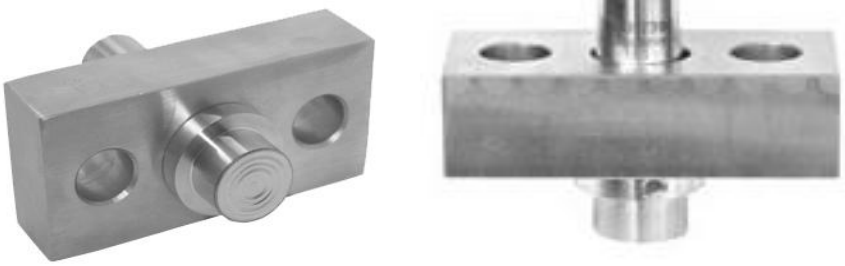
DIAPHRAGM SEALS
FOR HOMOGENIZING SYSTEMS

SUKU
DRUCK & TEMPERATUR

Process connection block flange 95 x 43 x 28 mm



Description

Chemical seals are used when media can falsify the pressure measurements due to high temperatures, high viscousity (media in paste form) or their pro-pensity 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.

With the process connection with block flange and the no dead spaced diaphragm at the front, this diaphragm seals are special suitable for higher pres-sure, dirty and viscous media for food industry e.g. homogenizing systems.

The parts of these chemical seals in contact with the medium are manufactured in stainless steel as stan-dard. In connection with a bourdon tube pressure gauge or a transducer, they are suitable for pressure ranges from 0…10 bar up to 0…600 bar.

The parts in contact with the medium can be manu-factured in special materials for particular service conditions.

When the permissible rated pressure is exceeded, a specially designed diaphragm prevents damage to the chemical seal.

Features

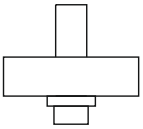
- ○ No dead spaced diaphragm at the front
- ○ Overload safety caused of the embed diaphragm
- ○ Installation with block flange 95 x 43 x 28
- ○ Body and diaphragm material: stainless steel
- ○ Reference temperature +20°C

Ranges

Bourdon tube pressure gauges nominal size 100: 0/10 bar up to 0/600 bar

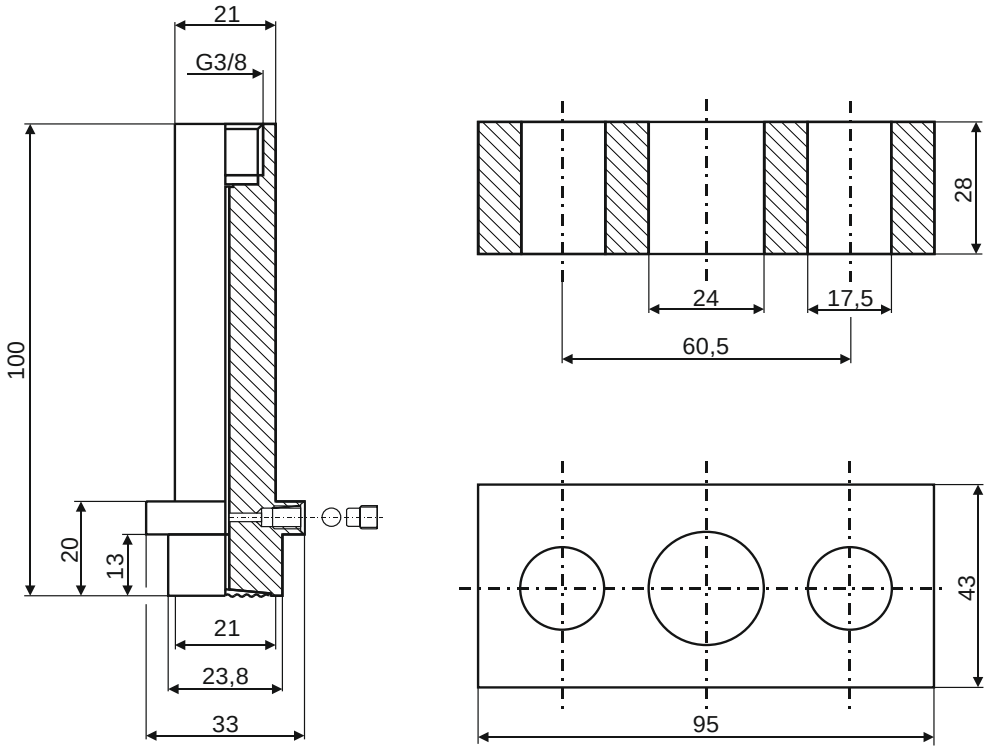
Applications

Food and beverange industries
Process engineering

Type	1022	Options
Symbol		Special versions with other dimensions on request
Rated pressure	PN 600	
Body of Diaphragm	CrNi-steel 1.4571	
Instrument connection	G 3/8 female	Capillary line or cooling element*
Block flange	Stainless steel 1.4301, according to dimensioned drawing	Other dimensions on request
Diaphragm	CrNi-steel 1.4435 effective diameter of the membrane 21 mm	Special materials on request
Filling	Glycerine	Others on request
Weight	Diaphragm seal with block flange approx. 1,00 kg	

*Cooling element between diaphragm seal and measuring instrument (e.G. urgently required if the medium temperature is >100°C (+215°F) and no capillary line is used.)

Dimensioned drawing Dimensions in mm



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 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 instumentation 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.

Modifications reserved!