DIAPHRAGM TYPE SEAL
WITH FLUSH-FRONT MEMBRANE
FOR PAPER MACHINES (PULP INDUSTRY)

SUKU
DRUCK & TEMPERATUR

Process connection DN48

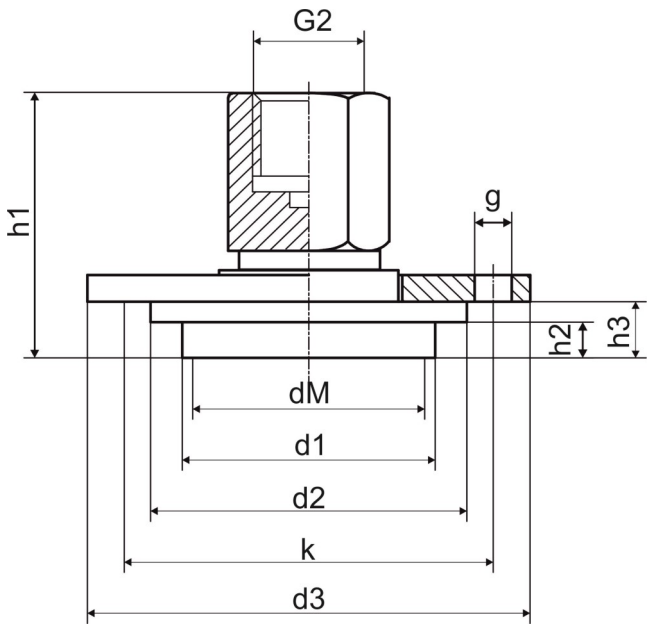
Diaphragm seals are used when measuring media due to high temperature, high viscosity (pasty media) or their tendency to crystallise the pressure measurement can falsify.

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

The wetted parts of these diaphragm seals are made of stainless steel as standard. They can be used in connection with a bourdon tube pressure measuring device, pressure sensor or pressure switch for pressure ranges from 0...1.6 bar to 0...40 bar.

Type	**1040**	**Options**
Measuring ranges	0...1,6 bar up to 0...40 bar or -1/+0,6 bar up to -1/+24 bar	
Design	One-piece with clamping flange	
Tube length	6,5 mm	15 mm
Chemical seal	Stainless steel	
Membrane	Diameter 48 mm Stainless steel , welded crevice-free with a diaphragm seal	
Clamping flange	Stainless steel	
Process connection	DN 48	
Effective membrane diameter	dM= 38 mm	
Nominal pressure	PN 40	
Measuring device connection	G 1/2 female	Drilling d8 for welding with a pressure gauge with process connection d8x5, G1/4, 1/2 “NPT others on request
Filling liquid	oil	
Temperature	Medium: -20°C up to 200°C	
more options	Mounting capillary line or cooling element Pipe bend 90° or pipe bend 90° with vibration damping	

Dimensional drawing Dimensions in mm



Tube length	d1	d2	d3	dM	h1	h2	h3	k	g	G2	Weight approx.
6,5	48	59	85	38	66	6,5	12,5	70	6 x Ø7	G1/2	0,7 kg
15	48	59	85	38	70	15	21	70	6 x Ø7	G1/2	0,75 kg

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 aid of a liquid. For reasons related to the system and in order not to expose the measuring device to impermissibly high temperatures, the diaphragm seal and measuring device can be connected to one another via capillary lines (length up to a maximum of 15 m). The temperature gradient between the MSR device and the diaphragm seal can be several 100 ° C. This means that temperature-related measurement 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.

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