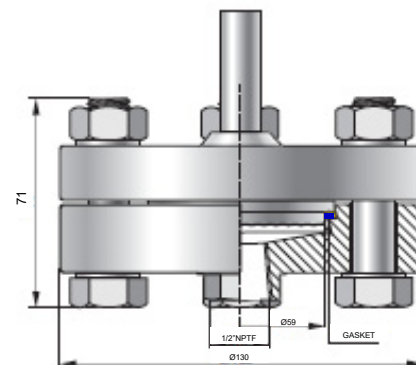
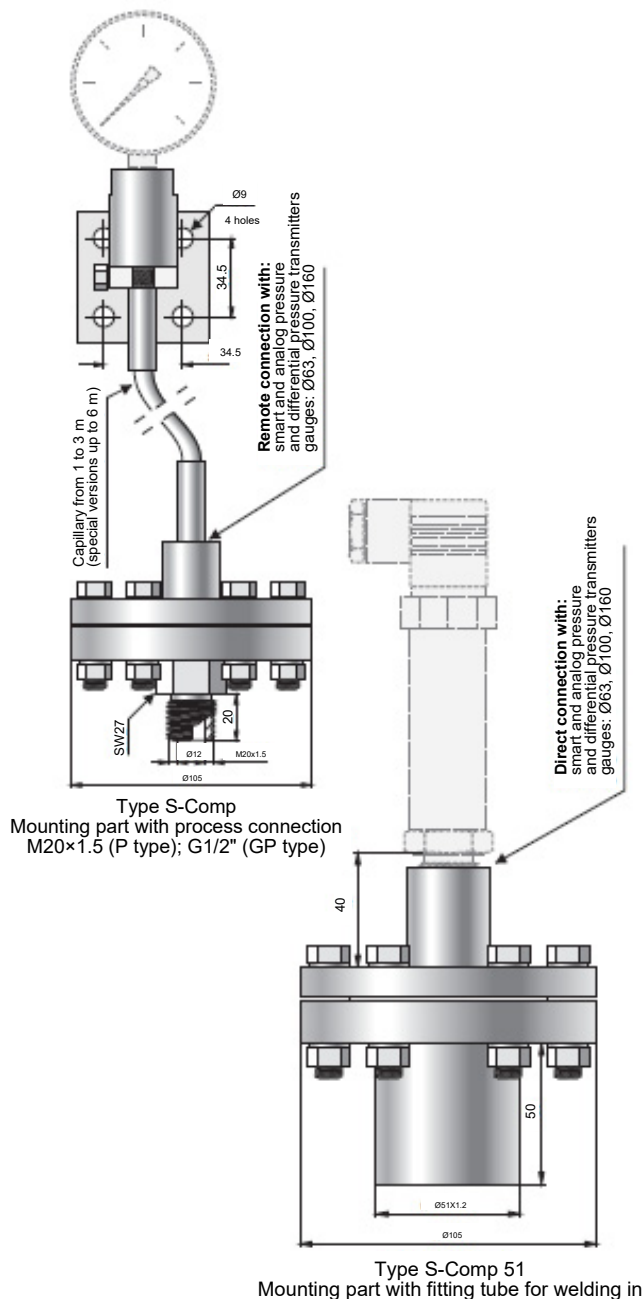


Technical Datasheet

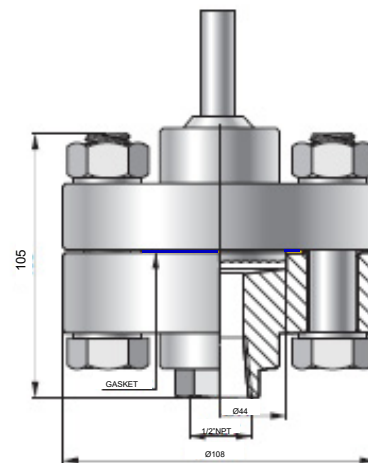


D Series

Threaded seals with large diaphragm S-Comp...



Type S-Comp10M
Mounting part with process connection
1/2" NPTF



Type S-Comp25M
Type S-Comp60M
Mounting part with process connection
1/2" NPTF

How can we help you?

Delta Controls' offers fast, efficient and knowledgeable support when and where you need it. Please visit our web site at www.delta-controls.com to find your local support centre or call us on:

+44 (0) 1252 729140

Application

The diaphragm seal is a pressure-transmitting, diaphragm-type device. The pressure signal is transferred to the pressure measuring device (pressure transmitter, pressure gauge) through manometric liquid filling the space between the separating diaphragm of the seal and the sensor of the pressure measuring device. The diaphragm seal is used to isolate the pressure measuring device from damaging impacts caused by either the process medium or installation:

- low or high temperature, increased viscosity, impurities;
- vibrations of the installation (remote diaphragm seal);
- pressure fluctuations.

S-Comp diaphragm seals have a large separating diaphragm (Ø70) while retaining a compact economic overall design. Benefits of S-Comp diaphragm seals include:

- the ability to take measurements within a narrow range;
- simplicity of assembly.

Measuring Ranges

Maximum measuring range:

Type S-Comp, S-Comp51: 0 ... 16bar

Type S-Comp 25M: 0 ... 250bar

Type S-Comp 10M: 0 ... 100bar

Type S-Comp 60M: 0 ... 600bar

Recommended minimum measuring range (bar), depending on the type of the set: pressure measuring device - diaphragm seal

Diaphragm seal type	Transmitters DPCE-2000*, DPCE-28	Gauge Ø63	Gauge Ø100	Gauge Ø160
Direct	0.2	1	1	1
Remote	0.5	2.5	2.5	2.5

* The ranges given in the table for the smart DPC-2000 transmitter should be taken as set ranges.

Zero error from ambient temperature change

Diaphragm seal type	Absolute error of zero
Direct	0.6 mbar / 10°C
Remote (2m capillary)	2 mbar / 10°C

An additional zero error, resulting from temperature fluctuations in a medium, depends on the temperature gradient in the oil-based diaphragm sealing system. The error value is, in any case, significantly smaller than the error value shown in the table.

Maximum temperature range

-30...200°C for remote diaphragm seal

-30...150°C for direct diaphragm seal

Special versions

Diaphragm made of Hastelloy C 276

Capillary outlet at the side of the diaphragm seal

Direct diaphragm seal for medium temp. over 150°C

Others

Material of diaphragm, flange and mounting part

316Lss

Note

To order chemical seals with transmitter, contact our sales department

In the interest of development and improvement Delta Controls Ltd, reserves the right to amend, without notice, details contained in this publication. No legal liability will be accepted by Delta Controls Ltd for any errors, omissions or amendments.

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