



Features

- Flush-mounted separating diaphragm of stainless steel, welded by laser
- Hygienic sealing (no elastomer)
- Fast and easy mounting
- The measuring system can be positioned as required by means of the rotary screwed plug
- Minimum mounting torque error/no torsion
- Connection of measuring instrument:
 - directly screwed
 - with capillary

Options

- Material certificate acc. to DIN EN 10204-3.1
- Hygienic design with advanced surface quality
- Special materials upon request

Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

Application

Suitable for mounting to pressure measuring instruments. The rotary connection allows the measuring system to be positioned on site, even when welding sleeves have already been mounted. The diaphragm seal for screw-in thread HYGIENIC, no gasket, is used mainly for dead-zone free measuring.

Technical Data

Process connection

G 1 A adjustable, metal-to-metal joint. The rotary screw-in design means that no torsional forces are produced that could damage the sealing surface.
Tightening torque:
20 Nm, max. nominal pressure 10 bar
50 Nm, max. nominal pressure 50 bar

Diaphragm seal material

basic body and screwed plug stainless steel mat.-no. 1.4404 (316L)

Separating diaphragm

material st. steel mat. no. 1.4435 (316), further materials upon request

Nominal pressure

max. 50 bar

Mounting torque errors

1 mbar bei einem tightening torque von 20 Nm.

Pressure ranges

for mounting to pressure measuring instruments 0...0.4 bar up to 0...40 bar

Measuring instrument connection

- directly screwed
 - with capillary
- see order code
material stainless steel

Process temperature

dependent on measuring system, diaphragm seal filling liquid and installation, max. 250 °C.

Diaphragm seal filling liquid

see data sheet D5-003.
Standard according to order code

Hygienic design

surface formation of wetted parts as per EHEDG guidelines
($R_a \leq 0.8 \mu\text{m}$)

Installation instructions

see operating instructions BTA-062

Weights

diaphragm seal and screwed plug
approx. 0.3 kg

Measuring instrument connection

directly welded
Code: A400

temperature decoupler

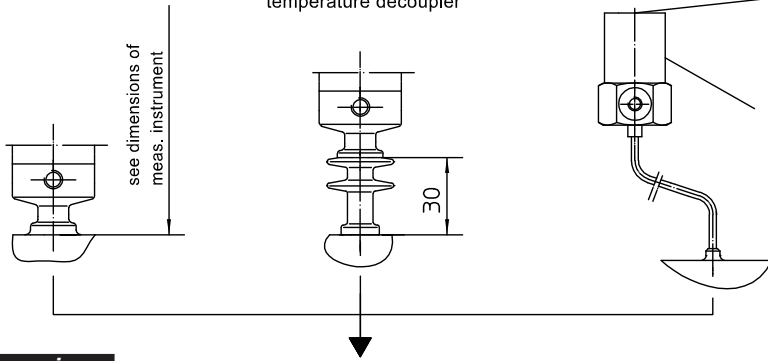
capillary
welded Code: B40../B50..

pressure transmitter

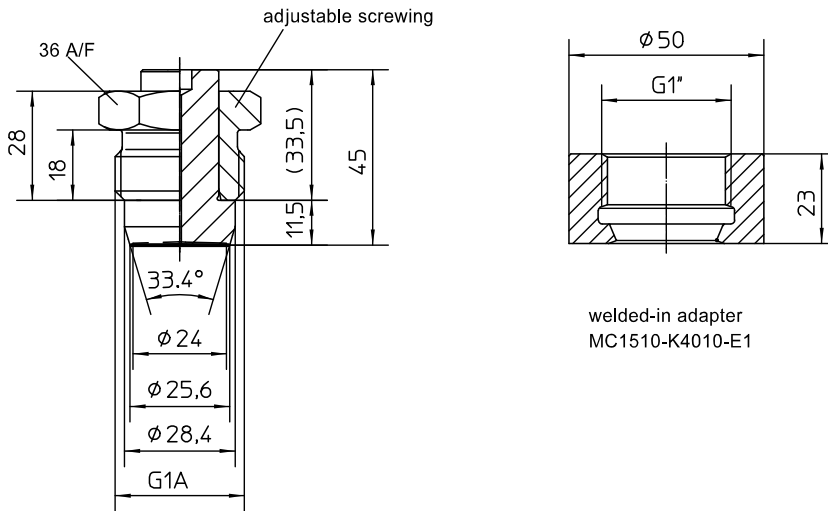
pressure transmitter with
temperature decoupler

connection
welded/screwed
per DIN EN 837-1

prepared for
wall bracket see
data sheet no.
D6-032



Dimensions



welded-in adapter
MC1510-K4010-E1

Order Details - please give additional specifications for models not listed -

capillary length	
length m	order- code
1	11
1.6	12
2.5	13
4	14
5	21
6	15
7	23
8	16
10	17
others	9

Diaphragm seal for food/pharmaceutical/biotechnology			
design	screw-in thread HYGIENIC, no gasket	DE2130	
surface roughness	· standard		
	· hygienic version as per EHEDG guidelines	HY	
process connection	· G 1 A adjustable, no gasket	D13	
material sealing surface	· stainless steel mat.-no. 1.4404 (316L)		E1
	· variant		E9
diaphragm material	· stainless steel mat.-no. 1.4436 (316)		G12
	· variant		G9
connection of measuring instrument	· directly welded		A400
	· with capillary, welded		B40 ..
	· with capillary and stainless steel protective tube, welded		B50 ..
system filling ¹	filling liquid	temperature range ³	
	· foodstuff oil FD1 (Standard)	+10...+140 °C	L22
	· foodstuff oil FD1, pls. specify temperature, max.	-40...+200 °C	L23
	· glycerine/water FGW	-20...+120 °C	L15

additional features (to be indicated in case of need, only)

material certificate acc. to DIN EN 10204- 3.1, wetted parts	W1020
diaphragm seal electropolished	W4035

order code (example): DE2130 D13 E1 G12 A400 L22

accessories

welded socket	· Ø 50 mm, G1", HYGIENIC, no gasket, stainless steel mat.-no. 1.4404 (316L)	MC1510-K4010-E1
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¹ Please check data sheet D5-003 for further information.
Please state temperature range to allow an accurate calculation of the system.
² max. temperature of liquid filling for abs. pressure > 1 bar