



#### Features

- Flush-mounted separating diaphragm of stainless steel, welded by laser
- Volume optimized diaphragm base
- Connection of measuring instrument:
  - directly welded
  - directly screwed
  - with temperature decoupler
  - with capillary

#### Options

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

#### Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

#### Application

Suitable for mounting to bourdon tube pressure gauges and pressure transmitters. The diaphragm seal HYGIENIC Tubus is used mainly for dead-zone free measuring.

#### Technical Data

##### Process connection

HYGIENIC Tubus Ø 52.5 mm  
 diaphragm surface Ø 40 mm  
 PN 40

##### Diaphragm seal material

basic body: stainless steel  
 1.4404/1.4435 (316L)  
 measuring instrument connection:  
 st. steel mat.-no. 1.4301 (304)  
 gasket: Perbunan/NBR

##### Separating diaphragm

material st. steel mat.-no.  
 1.4404/1.4435 (316L)

##### Measuring instrument connection

- directly welded/screwed
- with temperature decoupler
- with capillary

see order code  
 material stainless steel

##### Process temperature

dependent on measuring system,  
 diaphragm seal filling liquid and installation.

##### Diaphragm seal filling liquid

foodstuff oil FD1

##### 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

with measuring instrument connection  
 G 1/2 approx. 1.2 kg

**Measuring instrument connection**

directly welded  
Code: A400

directly screwed  
Code: A300

temperature decoupler  
Code: A100

capillary  
welded Code: B40../B50..  
screwed Code: B20../B10..

pressure gauge or  
pressure transmitter

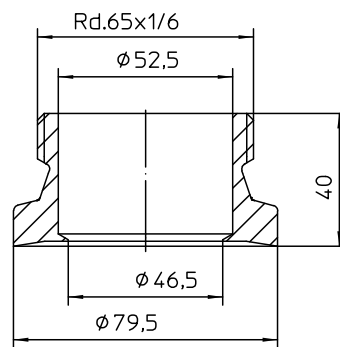
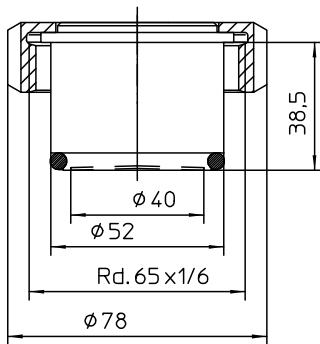
connection per  
DIN EN 837-1

connection per  
DIN EN 837-1

connection  
welded/screwed  
per DIN EN 837-1

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

**Dimensions**



weld-in adapter

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

Diaphragm seal HYGIENIC Tubus with screwing DN 40														capillary length		
design	HYGIENIC Tubus Ø 52.5 mm			DL9015										length m	order- code	
surface roughness	hygienic version as per EHEDG guidelines			HY										1	11	
basic body material	· stainless steel mat.-no. 1.4404/1.4435 (316L)			E1										1.6	12	
diaphragm material	· stainless steel mat.-no. 1.4404/1.4435 (316L)			G1										2.5	13	
gasket	· Perbunan			H1										4	14	
connection of measuring instrument	· directly	· welded												5	21	
		· screwed G 1/2												6	15	
	· with temperature decoupler		· screwed G 1/2												7	23
	· with capillary		· welded												8	16
		· screwed G 1/2												10	17	
· with capillary and stainless steel protective tube		· welded												others	9	
		· screwed G 1/2														
system filling <sup>1</sup>	filling liquid		temperature range <sup>2</sup>													
	· foodstuff oil FD1 (standard)		+10...+140 °C												L22	
	· foodstuff oil FD1		-40...+200 °C												L23	
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):				DL9014	HY	E7	G7	H2	A300	L32						
accessories																
weld-in adapter, mat.-no. stainless steel mat.-no. 1.4571 (316Ti), hygienic version				MZ2040-HY												

<sup>1</sup> Please check data sheet D5-003 for further information.  
Please state temperature range to allow an accurate calculation of the system.  
<sup>2</sup> max. temperature of liquid filling for abs. pressure > 1 bar abs