

Labom

Diaphragm seal HYGIENIC Tubus Ø 52 mm with screwing DN 40 Type series DL9015



Features

- Flush-mounted separating diaphragm of stainless steel, laser welded
- Volume optimised diaphragm base
- System fillings for different applications
- Measuring device connection:
 - directly welded
 - directly screwed
 - with temperature decoupler
 - with capillary

Options

- Certificates
 - Material certificate acc. to EN 10204-3.1
- Electropolishing (wetted parts)
- Hygienic design with advanced surface quality
- Special materials upon request

Application

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

Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

Technical data

Constructional design

Basic body:	Volume reduced diaphragm base Material: stainless steel matno. 1.4404/1.4435 (316L)
Union nut:	Material: stainless steel matno. 1.4301 (304)
Diaphragm:	Flat diaphragm
Material wetted parts:	Diaphragm: Stainless steel matno. 1.4435 (316L) Further materials upon request
	Basic body: Stainless steel matno. 1.4404/1.4435 (316L)

Process connection

Design:	HYGIENIC Tubus: Ø 52 mm
Diaphragm surface:	Ø 40 mm
Nominal pres- sure:	PN 40
Gaskets:	 Material NBR (Perbunan) Temperature range: -25120 °C
	 Material EPDM, FDA compliant Temperature range: -50140 °C

 Kalrez 6221 (white), FDA compliant, USP Class VI, incl. certificate Temperature range: up to 260 °C

Further gaskets upon request.

Measuring device connection

See order details.

Material stainless steel mat.-no. 1.4301 (304)

System filling

See order details; further upon request.

Further details about pressure transmission fluids see general technical information TA_038.

Hygienic design

The surface roughness of the wetted parts made of stainless steel are executed according to EHEDG Doc.8 and ASME BPE SF3. In case of choosing the additional feature HY, we guarantee the following surface roughness values:

Diaphragm foil:	Ra ≤ 0.38 µm
Laser welds:	Ra ≤ 0.76 µm
Turned parts:	Ra ≤ 0.76 µm

Further versions of hygienic design upon request.

Temperature error

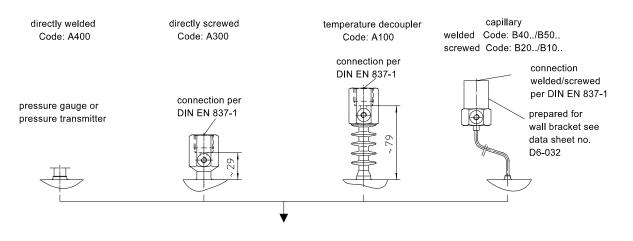
In order to optimise the system we provide a detailed error calculation upon request.

Weight

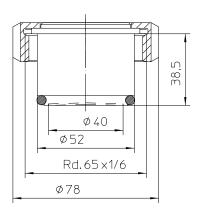
With measuring device connection G1/2 approx. 1.2 kg

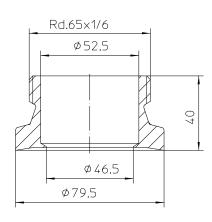
Further information about diaphragm seals see general technical information TA_031.

Measuring device connection



Dimensions





weld-in adapter

Diaphragm seal HYGIENIC Tubus Ø 52 mm with screwing DN 40 Type series DL9015

Order detai	ls diaphragm seal DL9015		
DL9015	design	HYGIENIC Tubus Ø 52 mm	
НҮ	surface roughness	Hygienic version as per EHEDG Doc.8 and ASME BPE SF3	
E1	basic body material	stainless steel matno. 1.4404/1.4435 (316L)	
G1	diaphragm material	stainless steel matno. 1.4404/1.4435 (316L)	
H1		material NBR (Perbunan), temperature range -25120 °C	
H2	gasket	material EPDM, FDA compliant, temperature range -50	140 °C
H12.1		Kalrez 6221 (white), FDA compliant, USP Class VI, incl. certificate, temperature range up to 260 °C	
A400		diagram.	welded
A300		directly	screwed G1/2
A100		with temperature decoupler	screwed G1/2
B40		with conillony	welded
B20		with capillary	screwed G1/2
350		with capillary and stainless steel protective tube	welded
310			screwed G1/2
11		capillary length	1 m
12	measuring device connection		1.6 m
13			2.5 m
14			4 m
21			5 m
15			6 m
23			7 m
16			8 m
17			10 m
9			others
		pressure transmission fluid	temperaturr range ²
L22	system filling ¹	synthetic oil, free of silicone FD1, standard	-10140 °C
L23		synthetic oil, free of silicone FD1, please specify max. temperature	-40230 °C

Additional features (to be indicated in case of need, only)	
W1020	material certificate acc. to EN 10204-3.1, wetted parts
W4035	electropolishing of wetted parts

Accessories	
MZ2050-HY	weld-in adapter, stainless steel matno. 1.4571 (316Ti), hygienic design

Order code (example): DL9015 - HY - E1 - G1 - H1 - A400 - L22 - ...

¹ for more detailed information about pressure transmission fluids see TA_038.

Please state temperature range to allow an accurate calculation of the system.

² max. media temperature for pressures > 0 bar rel. The temperature range of the used gasket has to be observed.