

Clamp connection Diaphragm Seal Type 04.ALI

04.ALI



Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that may be corrosive, viscous, sedimentous and/or with a high temperature. The diaphragm is welded to the upper body, to ensure separation of the filling fluid from the process medium. Faced diaphragm position enables deep cleaning of the surface while the quick-connection Tri-Clamp enables frequent removal from the process during sterilization and cleaning operations, a common requirement in the food processing industry.

Ranges

Pressure gauges DS	1" Clamp	1" 1/2 Clamp	2" Clamp	2" 1/2 Clamp	3" Clamp
63	0...6/0...40 bar	0...2,5/0...40 bar	-	-	-
100	-	0...2,5/0...40 bar	0...1/0...40 bar	0...1/0...25 bar	0...1/0...25 bar
150	-	0...4/0...40 bar	0...2,5/0...40 bar	0...1,6/0...25 bar	0...1/0...25 bar

Vacuum and compound are available upon request.

Functional and constructive characteristics

Process temperature: -20°C...+120°C.

Accuracy*: (add to instrument accuracy) $\pm 0,5\%$ for direct mounting.

Instrument connection: AISI 316 st.st. 1/4" BSP F or 1/2" BSP F with ball and set screw threaded M5 for filling.

Diaphragm: AISI 316L, welded.

Process connection: AISI 316 st.st. 1" 1/2 ... 2" 1/2 Clamp.

Filling liquid: oil for food industry.

Special version

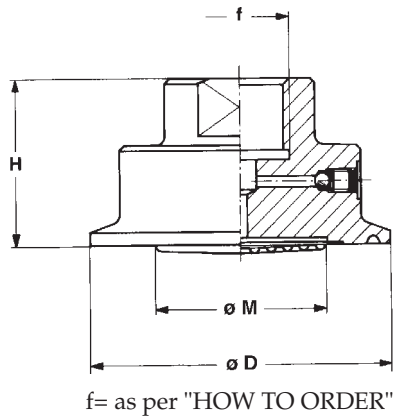
Cooling extension: to be used for direct connection when the process temperature is higher than 100 °C. (option TOR)

Capillary (remote mounting): st.st. capillary covered with st.st. armour $\varnothing 6$ mm, PVC coated.

* at 20 °C process temperature (or state temperature when ordering)

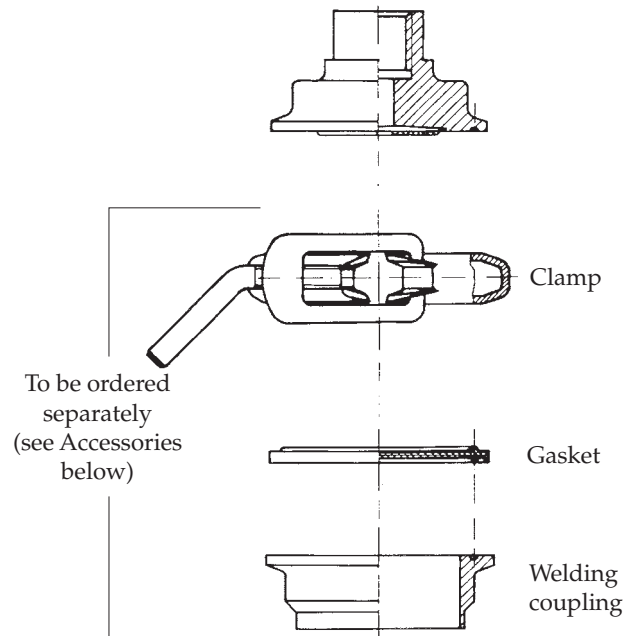
Clamp connection
Diaphragm Seal
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DIMENSIONS (mm.)



DN Clamp	C	Code	H	D	f	M
1"	43,5	6Y0	30	50,5	1/4" BSP	20
1" 1/2	43,5	AY0	35	50,5	1/4"-1/2" BSP	30
2"	56,5	BY0	35	64	1/2" BSP	40
2" 1/2	70,5	DY0	35	77,5	1/2" BSP	50
3"	83,5	EY0	35	91	1/2" BSP	65

MOUNTING EXAMPLE



HOW TO ORDER

	DESCRIPTION & CODE
04	04 - diaphragm seals
ALI	ALI - clamp for food industry
4	Process connection material 4 - AISI 316 st.st.
4	Diaphragm material 4 - AISI 316 L st.st.
BY0	Process connection 6Y0 - 1" Clamp AY0 - 1" 1/2 Clamp BY0 - 2" Clamp DY0 - 2" 1/2 Clamp EY0 - 3" Clamp
41F	Instrument connection 21F - 1/4" BSP F 41F - 1/2" BSP F
5	Capillary type 5 - st.st. capillary with st.st. armour, PVC coated
1000	capillary length (mm.)
C05	See options table

OPTIONS

Description	Code
Helium Test	C05
Dye penetration test	P04
AISI adaptor 1/2" BSPM x 1/4" NPTM	R21
Without instrument, seal only	S20
Cooling extension	TOR

ACCESSORIES

AISI 316L st.st. clamp : clamp with gasket and welding coupling are available. See table below to code.

Section	Model	Material	Code	Process connection
05	MTC	4	600	1" Tri-Clamp
			A00	1" 1/2 Tri-Clamp
			B00	2" Tri-Clamp
			D00	2" 1/2 Tri-Clamp
			E00	3" Tri-Clamp



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