The selection is detailed on page 4

H17
Aseptic Junction Type

Product application

Milk and dairy products

Fermentation and aging tanks for beer and wine

Beverage production

Hydrostatic level measurement of tank containers

Functional characteristics

Quick cleaning of measuring points

No residue Suitable for SIP(on-line sterilization) and CIP(in situ cleaning)

Apply 3-A authentication

Product description

Diaphragm seals are used to protect pressure measuring instruments from various media in applications. In diaphragm sealing systems, diaphragm-sealed diaphragms isolate the instrument and the medium. The pressure is transmitted to the measuring instrument through the system filling fluid inside the diaphragm seal system.

To meet our customers' demanding application requirements, we offer different designs, materials and system filling fluids.

Thanks to its flushing process connection, Type H17 diaphragm seals are best suited for installation in storage tanks. Suitable welded flanges allow for direct integration into tanks and storage containers.

Diaphragm seal level measurement is also suitable for media with high or low viscosity under pressure in the process.

Type H17 diaphragm seals meet the requirements of high temperature and chemical resistance cleaning solutions, especially for CIP cleaning processes.

Diaphragm seals and measuring instruments can be assembled directly or, for high temperatures, via cooling elements or flexible capillaries.

When it comes to material selection, Rodeweig offers a wide range of solutions, diaphragm seals and liquid access components can be made from the same or different materials. The liquid parts can be electropolished.

Technical parameter

Model H17	Standard	selectable
Allowable pressure	0... 0.1 MPa to 0... 4 MPa [0... 14.5 psi to 0... 580 psi] or all other negative or positive pressure ranges	
Cleanliness level of liquid connected components	No oil, no fat, in accordance with ASTM G93-03 standard F(<1,000 mg/m²)	No oil, no fat, in accordance with ASTM G93-03 standard C and ISO 15001 standard (<66mg/m²)
		No oil, no fat, in accordance with ASTM G93-03 standard C and ISO 15001 standard (<220mg/m2)
Origin of raw materials for liquid parts	Internation	European Union, Switzerland, United States
Surface roughness of liquid connecting parts	Ra≤0.76 μm，Comply with ASME BPE SF3 (except welds)	Ra≤0.38 μm，In accordance with ASME BPE SF4, only applicable to electropolished surfaces (except welds)
Materials	Stainless Steel 1.4435 (316L)	-
How the instrument is connected	Axial adapter	Through G1/2, G1/4, 1/2NPT or 1/4NPT (internal thread) axial adapters
Installation mode	Direct connection	capillaries
		Cooling element
Vacuum service	Basic vacuum treatment	Advanced high temperature and high vacuum treatment
		High temperature and high vacuum treatment
Assembly part	Flange, Stainless steel 1.4435(316L)	Welded flange for DRD connection, Stainless steel 1.4435 (316L)
	Hexagonal screws M10 x 20, stainless steel	
Diaphragm seal marks	-	Meets valid 3-A standards
Meter mounting bracket (Capillary option only)	-	Model H, DIN 16281, 100mm, aluminum, black
		Type H, DIN 16281, 100mm, stainless steel
		Pipe bracket mounting for Ø20... 80 mm pipe, steel

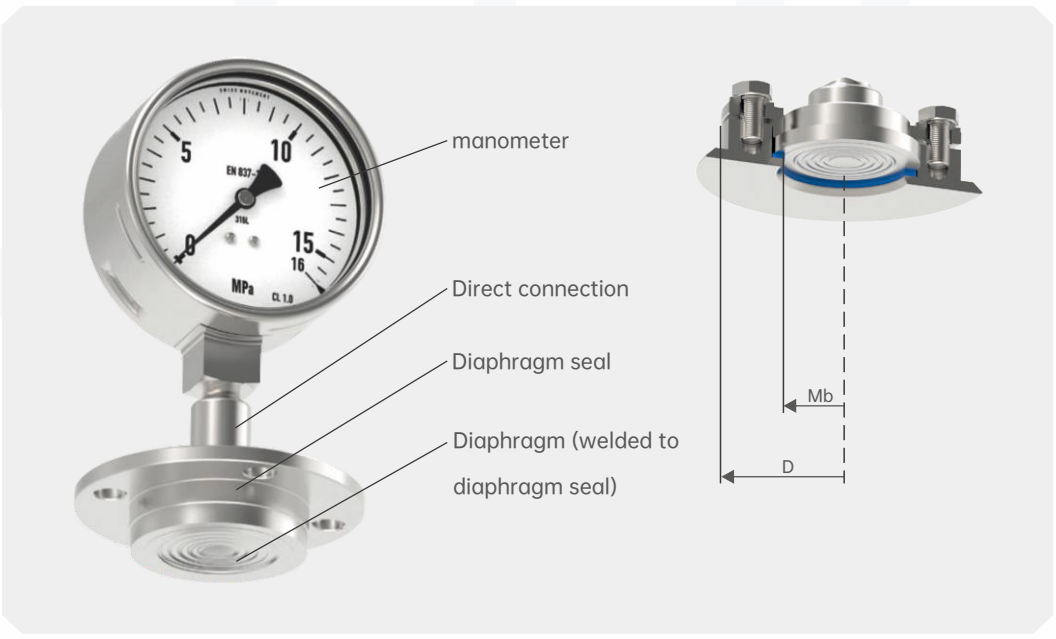
Installation example

Model H17 Mount to pressure gauge

legend

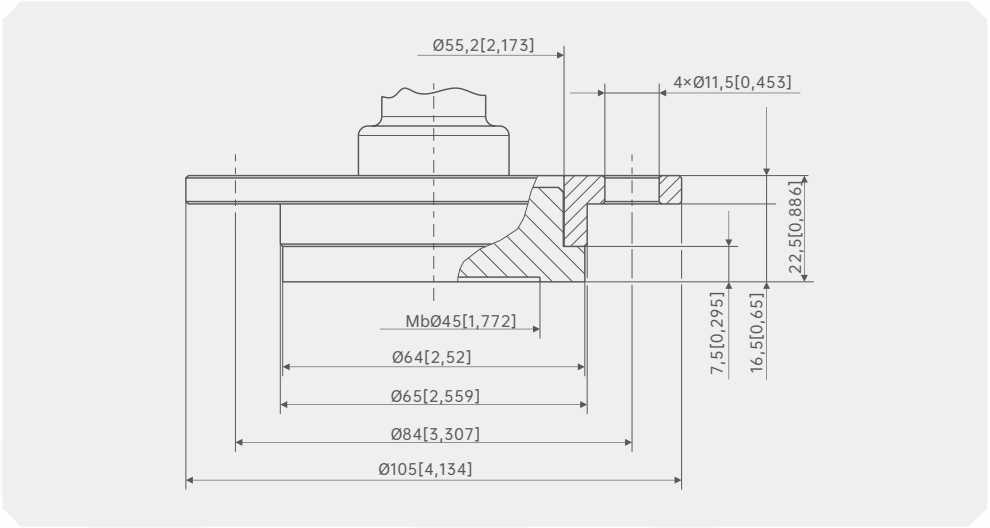
Mb Effective diaphragm diameter

D Diaphragm seal outer diameter/retainer flange

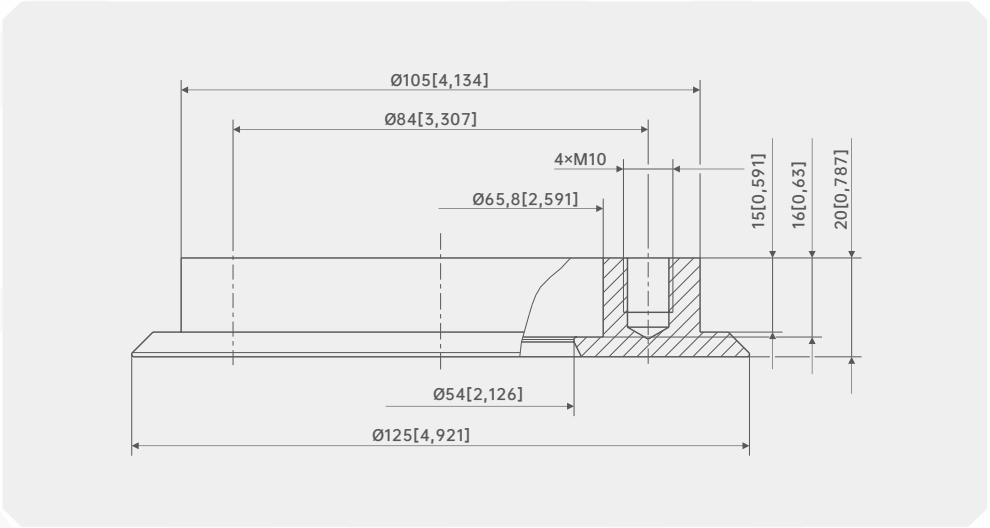


Size mm [in]

Model H17, DRD connection and retainer flange, can be welded directly or assembled by capillary



Welded flange for DRD connection (optional)



H17-Selection composition

Selection example H17 H / P / Y (1 2 3)

1.Meter connection specification	A	1 NPT
	B	1/2NPT
	C	1/4NPT
	D	M14*1.5
	E	M20*1.5
	F	M27*2
	G	G 1
	H	G1/2
	I	G1/4
	T( )	Other connection specifications

2.Field connection specification	N	DN15
	O	DN20
	P	DN25
	Q	DN32
	R	DN40
	S	DN50
	T	DN65
	U	DN80
	V	DN100
	T( )	Other connection specifications

3.material	X	Carbon steel
	Y	304SS
	Z	316L
	T( )	Other materials

Instructions:

It indicates that the H17 diaphragm seal is connected to the instrument with the specification of G1/2, and the field connection specification is DN25, and the material is 304 stainless steel.

Product Certification

Compliance and approval; Rodeweig pressure gauges meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;