The selection is detailed on page 6

H15 Flange Joint Type

Product application

Special form integral flange and saddle type flange A corrosive, polluting, highly

viscous or hot medium Process industry

Functional characteristics

Flush diaphragm Bolted to monolithic or saddletype flange

Product description

Diaphragm seals are used to protect pressure measuring instruments used in difficult media. In diaphragm sealing systems, the diaphragm affects the separation of the instrument and the medium. The pressure is transferred to the measuring instrument through a system filled with fluid inside the diaphragm seal system.

To achieve demanding customer applications, we have a wide range of designs, materials and system fillers to choose from.

Model H15 diaphragm seals and welded monolithic flanges or saddle-type flanges form a perfectly matched system.

By welding the process interface of the integral flange and the saddle flange, the compact assembly can be realized at the measurement point.

The process connection can be designed as a flange connection. The measuring instrument is installed in a vertical position.





Technical parameter

Model H15	Standard	Selectable	
Pressure range	00.06 MPa(08.7 psi) to 025 MPa (03600 psi)		
Cleanliness of liquid receiving parts	No oil and no fat treatment, according to ASTMG93-03 standard E ISO 15001(< 1,000 mg/m²)	No oil and no fat treatment according to ASTMG93-03 grade D and ISO 15001(<220 mg/m²)	
		No oil and no fat treatment according to ASTMG93-03 grade D and ISO 05001(<66 mg/m²)	
Origin of raw materials for liquid parts	Internation	European Union, Switzerland, United States	
Connection of measuring instruments	Axial adapter G1/2	-	
Seal	FPM to 200°C	PTFE to 260 °C	
		Metal (1.4571 silver plated or Inconel silver plated) to 400°C	
Installation mode	Direct connection	Capillaries	
		Cooling element	
Process connection element	Clamping flange	-	
	Hexagon screw		
	Pressure ring		
	Sealing element		
Designed to comply with	-	MR0175	
NACE standards		MR0103	
Vacuum service	Basic requirement	Quality service	
		Premium service	
Meter mounting bracket	-	Form H, conforming to DIN 16281,100 mm, aluminum, black	
(capillary option only)		Form H, conforming to DIN 16281,100 mm, stainless steel	
		Pipe mounting bracket for pipe Ø20 80 mm, steel	



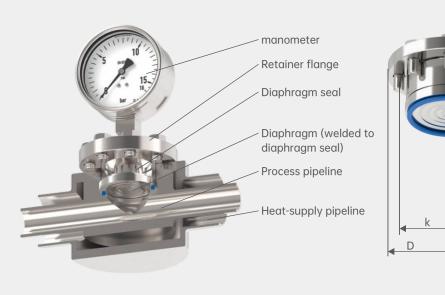


Case

Pressure strap model H15 Mounting by welding monolithic flange

legend

- D Outer diameter of diaphragm
- k ^{seal} Pitch diameter



Combination of materials

Diaphragm seals the upper	Liquid connection unit	Maximum allowable process temperature (° C / ° F)1	
Stainless Steel 1.4404 (316L)	Stainless Steel 1.4404/1.4435 (316L), standard version	400/752	
	Stainless Steel 1.4539 (904L)		
	Stainless Steel 1.4541 (321)		
	Stainless Steel 1.4571 (316Ti)		
	ECTFE coating	150/302	
	PFA (Perfluoroalkoxy) spray (FDA standard)	260/500	
	PFA (perfluoroalkoxy) coating (Anti-static)		
	gild	400/752	
	Ceramic coating		
	Hastelloy C22 (2.4602)	260/500	
	Hastelloy C276 (2.4819)	400/752	
	Inconel 600 (2.4816)		
	Inconel 625 (2.4856)		
	Incoloy 825 (2.4858)		
-	Monel Alloy 400 (2.4360)		
-	Nickel 200 (2.4060, 2.4066)	260/500	
-	Titanium (3.7035)	150/302	
	Titanium (3.7035)		
-	tantalum	300/572	
Stainless Steel 1.4435 (316L)	Stainless Steel 1.4435 (316L)	400/752	
Stainless Steel 1.4539 (904L)	Stainless Steel 1.4539 (904L)		
Stainless Steel 1.4541 (321)	Stainless Steel 1.4541 (321)		
Stainless Steel 1.4571 (316Ti)	Stainless Steel 1.4571 (316Ti)		





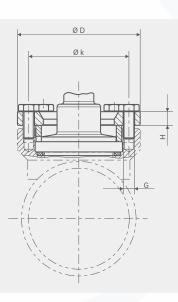
Combination of materials

Diaphragm seals the upper cavity	Liquid connection unit	Maximum permissible process temperature (°C/°F)
Duplex steel 2205 (1.4462)	Duplex steel 2205 (1.4462)	300/572
Super Duplex Steel (1.4410)	Super Duplex Steel (1.4410)	
Hastelloy C22 (2.4602)	Hastelloy C22 (2.4602)	400/752
Hastelloy C276 (2.4819)	Hastelloy C276 (2.4819)	
Inconel 600 (2.4816)	Inconel 600 (2.4816)	
Inconel 625 (2.4856)	Inconel 625 (2.4856)	
Incoloy 825 (2.4558)	Incoloy 825 (2.4858)	
Monel Alloy 400 (2.4360)	Monel Alloy 400 (2.4360)	
Nickel 200 (2.4060, 2.4066)	Nickel 200 (2.4060, 2.4066)	
Titanium, Grade 2 (3.7035)	Titanium Grade 2 (3.7035)	
Titanium, Grade 7 (3.7235)	Titanium Grade 11 (3.7225)	

1) Process temperature limits for diaphragm sealing systems depend on the connection type, system filling fluid, and measuring instrument

Size mm [in] Install through saddle-type flange

- Emote
- D diameter
- k Pitch diameter
- H Altitude
- G Screw thread



PN MPa [psi]	Size mm [in]			G	
	D	k	Н		
0 10 [1,450]	90 [3.543]	73.5 [2.894]	10 [0.394]	M 8	
10 25 [1,450 3,600]	108 [4.252]	84 [3.307]	16 [0.63]	M 12	



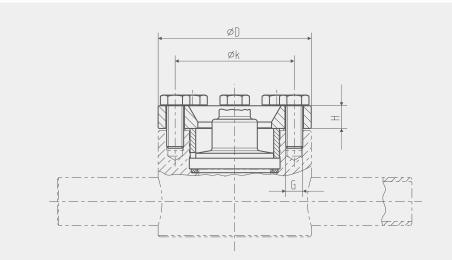


Size mm [in]

Mounting by welding monolithic flange (single pipe)

Emote

- D diameter
- k Pitch diameter
- H Altitude
- G Screw thread

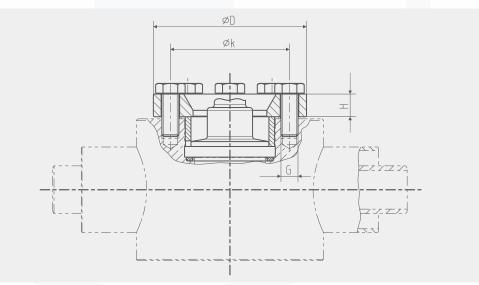


PN MPa [psi]	Size mm [in]			G
	D	k	Н	
0 10 [1,450]	90 [3.543]	73.5 [2.894]	10 [0.394]	M 8
10 25 [1,450 3,600]	108 [4.252]	84 [3.307]	16 [0.63]	M 12

Mounting by welding monolithic flange (casing)

Emote

- D diameter
- k Pitch diameter
- H Altitude
- G Screw thread



PN MPa [psi]	Size mm [in]			G
	D	k	Н	
0 10 [1,450]	90 [3.543]	73.5 [2.894]	10 [0.394]	M 8
10 25 [1,450 3,600]	108 [4.252]	84 [3.307]	16 [0.63]	M 12





.Meter connectio	n A	1 NPT				
specification	В	1/2NPT				
	С	1/4NPT				
	D	M14*	M14*1.5 M20*1.5			
	Е	M203				
	F	M27 ³	*2			
	G	G 1				
	Н	G1/2				
	I	G1/4				
	T()	Othe	r conn	ection specifications		
2.Field co	nnection	Ν	DN15			
specific	ation	0	O DN20			
		Р	DN25	5		
		Q	DN32	2		
		R	DN40			
		S	DN50			
		Т	DN65	5		
		U	DN80			
T 3.Material		V	DN10	0		
		T()	Other	r connection specifications		
		al	Х	Carbon steel		
			Υ	304SS		
			Z	316L		
		T()	Other materials			

H15-Selection composition Selection example H15

Ρ

Instructions:

It indicates that the H15 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;

