

[The selection is detailed on page 4](#)



H38

Thread Diaphragm Type

Product application

Application of standards in the process industry

Suitable for corrosive, polluting or heterogeneous pressure media

Functional characteristics

Internal diaphragm design, upper and lower shell welding

unsealed

High cost performance

Product description

Diaphragm seals are used to protect pressure measuring instruments in difficult media applications.

In the diaphragm sealing system, the diaphragm sealing diaphragm affects the separation effect of the instrument and the medium.

The pressure is transmitted to the measuring instrument through the pressure transmission medium inside the diaphragm seal system.

For the implementation of demanding customer applications, we have a wide range of designs, materials and pressure transfer media to choose from. Depending on the material, the weld design can also be used for nominal pressures up to 1,000 bar [14,500 psi].

No additional seal is required between the upper and lower parts of the diaphragm seal. Diaphragm seals can be mounted to the measuring instrument by direct connection, for high temperature media measurements, by cooling elements or through flexible capillaries.



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For more product information, please visit www.ludwig-schneider.com.cn



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INSTRUMENT

Technical parameter

Model H38	Standard	Selectable
Pressure rating	PN25...250 or PN150...1500	
Pressure range	0 ... 0.6bar to 0 ... 250bar	
diaphragm	Crni-stainless steel 316L, welded to upper cavity Effective diaphragm diameter Mb=52mm	Stainless steel 1.4571, 1.4435, 1.4539, 1.4541,1.4462
		Hastelloy B3, C4, C276, Monel 400, nickel, Inconel 600, tantalum, titanium
		The maximum heat resistant temperature of silver foil is 150°C
		The maximum heat resistance temperature of PTFE coating is 260°C≤100 bar
		The maximum heat resistance temperature of PFA coating is 260°C
	The maximum heat resistance temperature of ECTFE coating is 150°C	
Sealing ring	FPM	TEE (special diaphragm is also standard) coating maximum heat resistance temperature 260°C
		Metal ring (1.4571 or Inconel) Maximum heat resistance temperature 400°C
Upper cavity material and instrument connection form	Crni-stainless steel 316L, G1/2 internal thread	Stainless Steel 1.4571,1.4541, titanium
		Capillary connection (welded to upper cavity)
		The cooling tower can be connected when the temperature is > 100°C
Material of lower cavity and instrument connection form	Crni-stainless steel 316L, G1/2B external thread	Special material coated coat
		1/2NPT internal thread
		G1/2B external thread
		1/2NPT external thread
		Please ask for other connections
	The lower cavity has a cleaning hole	
Clamping part	Retaining flange, hex bolt, electroplated steel up to 200°C	Reserved flange: Stainless steel 1.4571 (temperature > +250°C)
		Hex bolts and nuts: stainless steel, up to 260 ° C
		Steel, high temperature resistance, up to 400°C

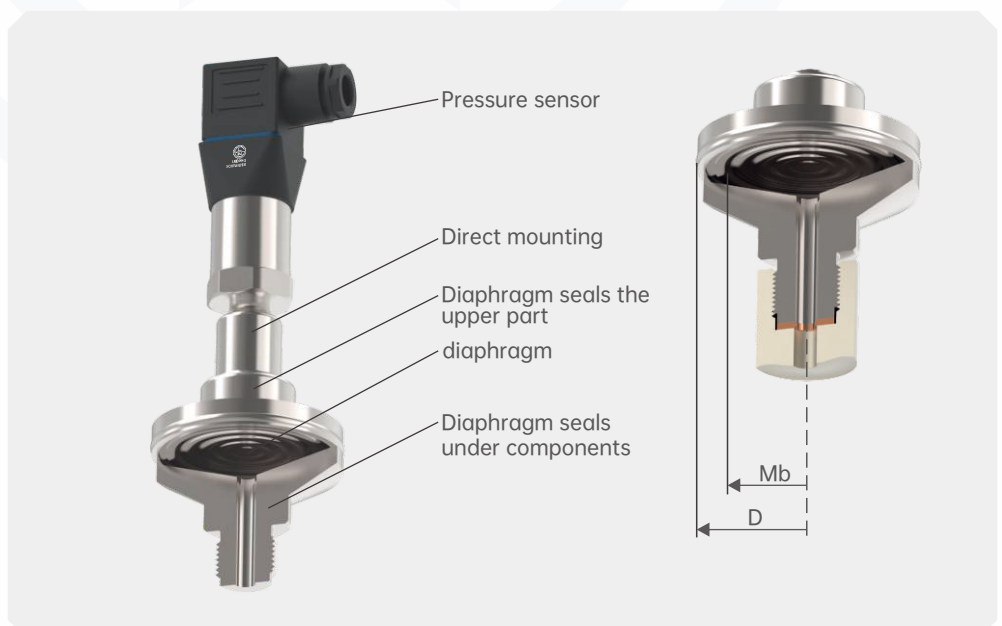
Case

Diaphragm model H16 Mounting pressure gauge

Legend

Mb Effective diaphragm diameter

D Diaphragm seal outer diameter

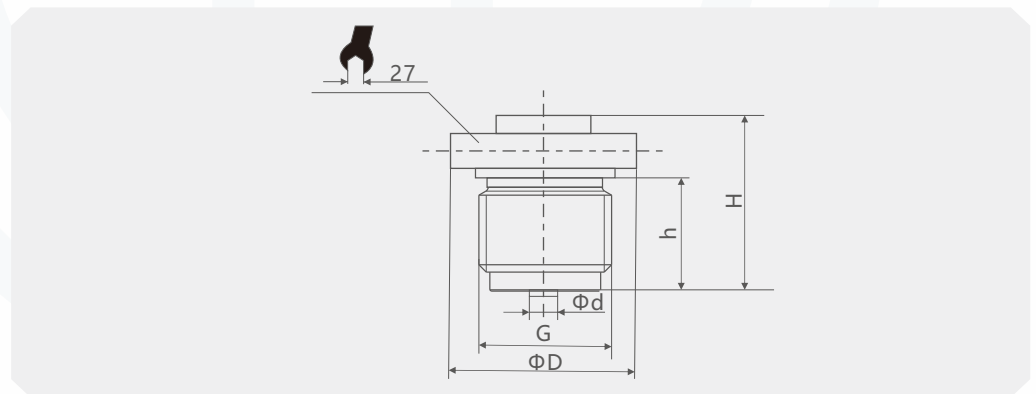


Process connection

Standard	Male thread	Internal thread
Conform to DIN ISO 228-1	G1/2A G1/4A G3/8A G3/4A G 1 A G1 1/2A	G1/2 G1/4 G3/8 G3/4 G 1
Conform to ASME B 1.20.1	1/2NPT 1/4NPT 3/8NPT 3/4NPT 1NPT 1 1/2NPT	1/2NPT 1/4NPT 3/8NPT 3/4NPT 1NPT
Conform to ANSI B 1.1	9/16-18 UNF	9/16-18 UNF
Conform to DIN 13-1	3/4-16 UNF	3/4-16 UNF
	M20 x 1.5	M20 x 1.5
Conform to ISO 7-1	R1/2 R1/4 R3/8 R3/4	-

Size mm [in]

Threaded connection



Process connection	D	d	H	h	weight kg
G1/2B	59	7	60.5	20	0.48
1/2NPT	59	7	59.5	19	0.48

H38-Selection composition

Selection example **H38** H U 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	1 NPT
	O	1/2NPT
	P	1/4NPT
	Q	M14*1.5
	R	M20*1.5
	S	M27*2
	T	G 1
	U	G1/2
	V	G1/4
	T ()	Other connection specifications
3.Material	X	Carbon steel
	Y	304SS
	Z	316L
	T ()	Other materials

Instructions:

It indicates that the H38 diaphragm seal is connected to the instrument with the specification of G1/2, and the field connection specification is G1/2, and the material is 304 stainless steel.

Product Certification

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