



Parto Sahand Ara

DTM DIAPHRAGM

DIAPHRAGM THREAD MILIBAR



www.arainstrument.com



Diaphragm Seal Type DTM

Applications

- For aggressive, hot, corrosive, environmentally hazardous or toxic media
- For mounting to measuring instruments for low pressure ranges or to differential pressure measuring instruments
- Filter monitoring
- Level measurement



Diaphragm seal with threaded connection

Description

Diaphragm seals are used for the protection of pressure measuring instruments in applications with difficult media. In diaphragm seal systems, the diaphragm of the diaphragm seal effects the separation of the instrument and the medium. The pressure is transmitted to the measuring instrument via the system fill fluid which is inside the diaphragm seal system.

The model DTM diaphragm seal with threaded connection in threaded design is suitable for versatile application areas.

A replacement of the lower body is possible without modifications on the diaphragm seal system. With this diaphragm seal, low pressure ranges can be covered. The large diameter of the diaphragm effects a lower deviation at the measuring instrument when the temperature changes.

- Pressure range : 0 ... 100 bar [0 ... 1,450 psi]
all other equivalent vacuum or combined pressure and vacuum ranges.



Diaphragm Seal Type DTM

Material combinations

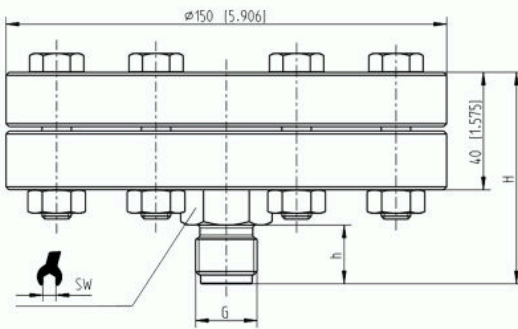
Upper body of diaphragm seal	Wetted parts	Maximum permissible process temperature in °C [°F]	
Stainless steel 1.4404 (316L)	Stainless steel 1.4404 / 1.4435 (316L), standard version	400 [752]	
	Stainless steel 1.4539 (904L)		
	Stainless steel 1.4541 (321)		
	Stainless steel 1.4571 (316Ti)		
	ECTFE coating		150 [302]
	PFA (perfluoroalkoxy) coating, FDA		260 [500]
	PFA (perfluoroalkoxy) coating, antistatic		
	Gold plating		400 [752]
	Wikaramic [®] 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 400 (2.4360)		
	Nickel 200 (2.4060, 2.4066)		
Titanium grade 2 (3.7035)	150 [302]		
Titanium grade 11 (3.7225)			
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)		
Duplex 2205 (1.4462)	Duplex 2205 (1.4462)		300 [572]
Superduplex 2507 (1.4410)	Superduplex 2507 (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 400 (2.4360)	Monel 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)		



Diaphragm Seal Type DTM

Dimensions in mm [in]

male thread

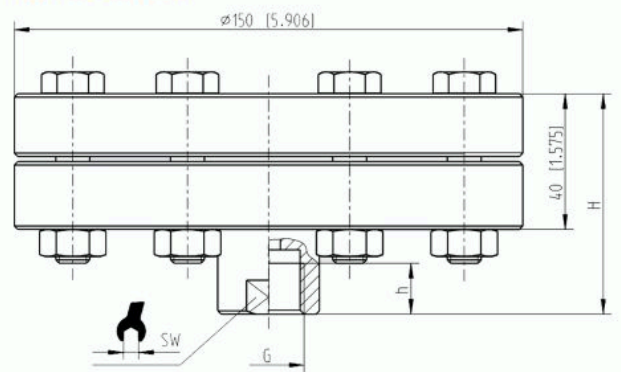


Legend:
Mb Diameter of diaphragm
G Thread
SW Spanner width

G	Dimensions in mm [in]			
	D	h	Mb	SW
G ¼ A	13 [5.512]	65 [2.559]	90 [3.543]	27 [1.063]
G 3/8 A	16 [0.63]	68 [2.677]	90 [3.543]	27 [1.063]
G ½ A	20 [0.787]	72 [2.835]	90 [3.543]	27 [1.063]
G ¾ A	20 [0.787]	72 [2.835]	90 [3.543]	27 [1.063]
G 1 A	28 [1.102]	80 [3.15]	90 [3.543]	27 [1.063]
G 1 ½ A	28 [1.102]	80 [3.15]	90 [3.543]	27 [1.063]
¼ NPT	13 [5.512]	65 [2.559]	90 [3.543]	27 [1.063]
½ NPT	15 [0.591]	67 [2.638]	90 [3.543]	27 [1.063]
¾ NPT	19 [0.748]	71 [2.798]	90 [3.543]	27 [1.063]
1 NPT	20 [0.787]	72 [2.835]	90 [3.543]	27 [1.063]
1 ½ NPT	25 [0.984]	77 [3.031]	90 [3.543]	27 [1.063]
1 ¾ NPT	26 [1.024]	78 [3.071]	90 [3.543]	27 [1.063]
M20 x 1.5	20 [0.787]	72 [2.835]	90 [3.543]	27 [1.063]
R ¼	15 [0.591]	67 [2.638]	90 [3.543]	27 [1.063]
R ½	18 [0.709]	67 [2.638]	90 [3.543]	27 [1.063]
R ¾	19 [0.748]	71 [2.798]	90 [3.543]	27 [1.063]
R 1	20 [0.787]	72 [2.835]	90 [3.543]	27 [1.063]

G	Dimensions in mm [in]			
	h	H	Mb	SW
G ¼	10 [0.394]	63 [2.480]	90 [3.543]	27 [1.063]
G ½	12 [0.472]	63 [2.480]	90 [3.543]	27 [1.063]
G ¾	14 [0.551]	65 [2.559]	90 [3.543]	27 [1.063]
G 1	16 [0.63]	68 [2.677]	90 [3.543]	36 [1.417]
G 1 ½	18 [0.709]	73 [2.874]	90 [3.543]	41 [1.614]
¼ NPT	-	63 [2.480]	90 [3.543]	27 [1.06]
½ NPT	-	63 [2.480]	90 [3.543]	27 [1.06]
¾ NPT	-	65 [2.559]	90 [3.543]	27 [1.06]
1 NPT	-	68 [2.677]	90 [3.543]	36 [1.417]
1 ½ NPT	-	73 [2.874]	90 [3.543]	41 [1.614]
M20 x 1.5	15.5 [0.61]	65 [2.559]	90 [3.543]	27 [1.063]

female thread



Legend:
Mb Diameter of diaphragm
G Thread
SW Spanner width



Diaphragm Seal Type DTM

Order Code

DTM Configuration	
1	Process Connection
	08F 1/4" NPT female
	15F 1/2" NPT female
	20F 3/4" NPT female
	25F 1" NPT female
	08M 1/4" NPT male
	15M 1/2" NPT male
	20M 3/4" NPT male
	25M 1" NPT male
	* Other - please specify
2	Material of Wetted Part
	S 316L SS (1.4435)
	H Hastelloy C276 (2.4819)
	I Inconel 600 (2.4816)
	T Tantalum
	M Monel 400 (2.4360)
* Other - please specify	
3	Lower Housing Material
	S 316L SS (1.4435)
	H Hastelloy C276 (2.4819)
	I Inconel 600 (2.4816)
	T Tantalum
	M Monel 400 (2.4360)
* Other - please specify	

4	Connection to Pressure Instrument
	1 1/4" NPT-female
	2 1/2" NPT-female
	3 Axial weld-in connection
	* Other - please specify
5	Accessory
	1 Capillary
	2 Cooling
	3 PTFE coated
	4 N/A
	* Other - please specify

Additional order details _____

DTM - -

1 2 3 4 5



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