

Tri-clamp Type

MIEPL make diaphragm seals, mounted with pressure gauges, process transmitters, pressure switches etc. By using diaphragm seals, the measuring instruments can be used at extreme temperatures from -10 to +150 °C and with aggressive, corrosive, heterogeneous, abrasive, highly viscous or toxic media. This also facilitates quick opening of Diaphragm separation system for cleaning & Flushing.

**FEATURES**

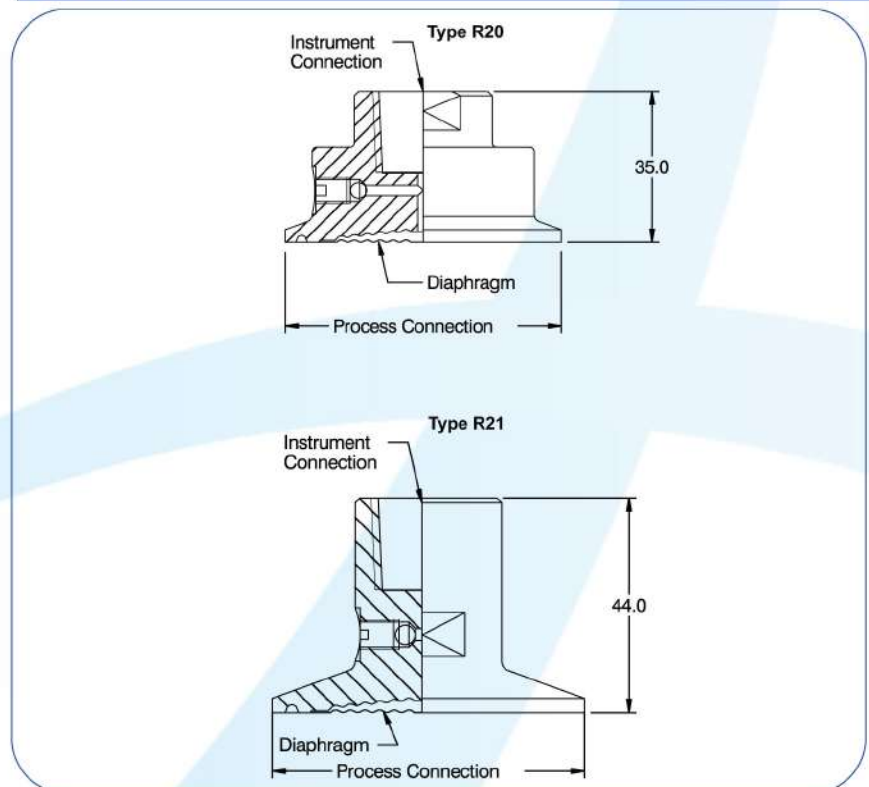
- ⇒ Quick connect/disconnect
- ⇒ welded flush diaphragm
- ⇒ Tri-clamp connection

APPLICATION

- ⇒ Food & beverages industries
- ⇒ Dairy & Ice cream industries
- ⇒ Pharmaceuticals & cosmetics

STANDARD SPECIFICATIONS

Range type	: -1...0 bar to 0...40 bar Tri-Clamp
Chamber material	: AISI 316 SS
Diaphragm	: AISI 316L SS
Instrument connection	: 1/2" NPT (F)
Sealing fluid	: Glycerine [10°C to 150°C]
Process connection	: 1.5" Connection
Assembly	: Direct

DRAWING

All dimensions are in mm.

ORDERING CODE

MDS08 - R19 - CF - DG - 4NF - FA - XXX - RF - XXX - B8

1. RANGE TYPE	(-1)...600 bar		R19							
2. CHAMBER / FLANGE MATERIAL	AISI 316 SS	CF	Hastelloy C-276	CO						
	AISI 316L SS	CG	AISI 316L SS, UREA GRADE	CU						
	Monel 400	CM								
3. DIAPHRAGM MATERIAL	AISI 316L SS	DG	AISI 316L SS, UREA GRADE	DU						
	Monel 400	DM								
	Hastelloy C-276	DO								
4. INSTRUMENT CONNECTION	3/8" BSP (F)	3BF		1/2" BSP (F)	4BF					
	1/2" NPT (F)	4NF		1/4" NPT (F)	2NF					
	1/4" BSP (F)	2BF								
5. SEALING FLUID	Silicon DC 200 [-40°C to 205°C]					FA				
	Food grade oil [-20°C to 140°C]					FF				
	Glycerine [10°C to 150°C]					FG				
	Syltherm 800 [-40°C to 315°C]					FI				
	Silicon DC 710 [7°C to 371°C]					FL				
6. PROCESS CONNECTION	Refer Flange Table for the codes							XXX		
7. FLANGE FACING	Flat Face						FF			
	Ring-Type Joint						RT			
	Raised Face						RF			
	Tongue and Groove (T&G)						TG			
8. PROTECTION ON WETTED PARTS	PTFE coating on flange						PA			
	PTFE coating on diaphragm						PC			
9. NECK EXTENSION	50mm up to 200 mm							XXX		
10. ASSEMBLY	Direct							B8		
	Remote (capillary)								B9	
11. CAPILLARY	AISI 304 SS	O U			AISI 316 SS			O V		
12. ARMOUR	AISI 304 SS	O X			AISI 316 SS			O Y		
	PVC (Ambient max. 60°C)	O Z								
13. REMOTE MOUNTING LENGTH	1000 mm up to 6000 mm							XXXX		
14. OTHER OPTIONS	Dry seal	XZ		Material test certificate 2.2				SM		
	Helium leak test	SL		Material test certificate 3.1				SC		

Ordering Example **MDS08 - R19 - CF - DG - 4NF - FA - XXX - RF - XXX - B8**

1. Different sealing liquids Can be Provided, Please Refer Factory.

ORDERING CODE

MDS09 - R20 - CF - DG - 4NF - FG - T15 - B8

1. RANGE TYPE	-1...0 bar to 0...40 bar Tri-Clamp	R20					
	-1...0 bar to 0...40 bar Tri-Clamp	R21					
Refer range vs connection size table							
2. CHAMBER MATERIAL	AISI 316 SS	CF					
	AISI 316L SS	CG					
3. DIAPHRAGM MATERIAL	AISI 316L SS		DG				
4. INSTRUMENT CONNECTION	3/8" BSP (F)1				3BF		
	1/2" NPT (F)1				4NF		
	1/4" BSP (F)				2BF		
	1/2" BSP (F)				4BF		
	1/4" NPT (F)				2NF		
5. SEALING FLUID	Food grade oil [-20°C to 140°C]					FF	
	Glycerine [10°C to 150°C]					FG	
6. TRI-CLAMP CONNECTION	1" Connection						T01
	1.5" Connection						T15
	2" Connection						T02
	2.5" Connection						T25
7. ASSEMBLY	Direct						B8
8. OTHER OPTIONS	Dry seal						XZ
	Helium leak test						SL
	Material test certificate 2.2						SM
	Material test certificate 3.1						SC
	4" Bourdon tube system						E7

CONNECTION SIZE Vs RANGE

Thread Size	1"	1 1/2"	2"	2 1/2"
"Diaphragm Size (OD/ED) in "mm"	35/25	38/32	48/40	62/52
Range (bar)	0...4 to 0...40	0...2 to 0...40	0...1 to 0...40	-1...0 to 0...40

APPLICABLE ACCESSORIES

Tri-Clamp, Scaling Ring & Bottom part A302

Ordering Example **MDS09 - R20 - CF - DG - 4NF - FG - T15 - B8**

NOTES:

1. Available with 63 mm Bourdon tube system
2. For Tri-clamps, Sealing rings & Bottom mating parts, please refer model A302.