

*" I " section 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 -40 to +370 °C and with aggressive, corrosive, heterogeneous, abrasive, highly viscous or toxic media.



**FEATURES**

- ⇒ " I " section extension type
- ⇒ For flanges below 11/2"
- ⇒ Optional exotic materials

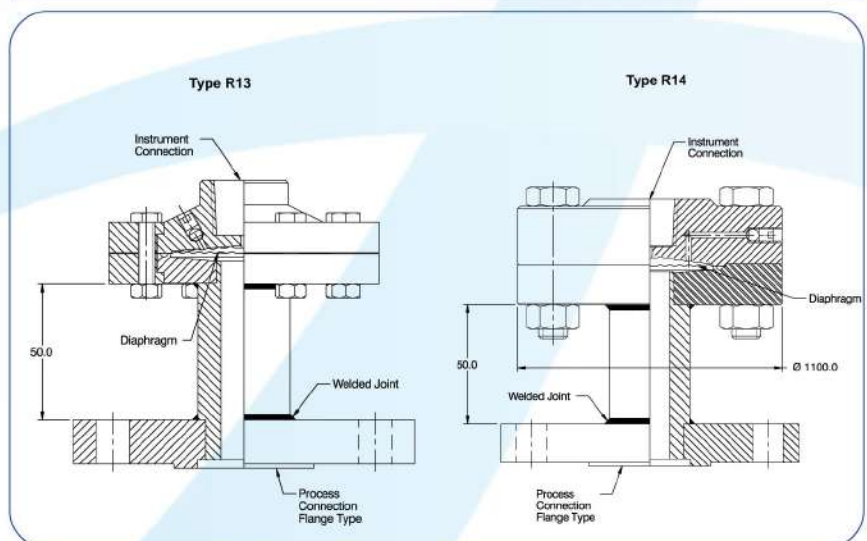
**APPLICATION**

- ⇒ Isolation applications
- ⇒ Viscous & corrosive media
- ⇒ High-pressure applications
- ⇒ High vibration application

**STANDARD SPECIFICATIONS**

|                             |   |
|-----------------------------|---|
| Range type                  | : -1...0 bar to 0...21 bar / 0...70 bar |
| Top chamber material        | : AISI 304 SS                           |
| Diaphragm                   | : AISI 316L SS                          |
| Gaskets                     | : PTFE                                  |
| Bottom chamber material     | : AISI 316 SS                           |
| Instrument connection       | : 1/2" NPT (F)                          |
| Sealing fluid               | : Silicon DC 200 (-40...205°C)          |
| Process connection          | : 1" 150# as per ANSI B16.5             |
| Flange facing type          | : Raised face                           |
| Coupling flanges & hardware | : AISI 304 SS                           |
| Protection on wetted parts  | : Optional                              |
| Assembly                    | : Direct                                |
| Capillary                   | : Optional                              |
| Armour                      | : Optional                              |
| Remote mounting length      | : Optional                              |

**DRAWING**



All dimensions are in mm.

## ORDERING CODE

MDS05 - R13 - CC - DG - RP - BC - 3BF - FA - XX - FF - LD - PA - B8

|                                  |                                    |     |                |                   |   |     |      |    |
|----------------------------------|------------------------------------|-----|----------------|-------------------|---|-----|------|----|
| 1. RANGE TYPE                    | -1...0 bar to 0...70 bar           | R13 |                |                   |   |     |      |    |
|                                  | -100...400 bar                     | R14 |                |                   |   |     |      |    |
| 2. TOP CHAMBER MATERIAL          | ASTM A105, Ni-plated               |     |                |                   |   |     | CB   |    |
|                                  | AISI 304 SS                        |     |                |                   |   |     | CC   |    |
|                                  | AISI 316 SS                        |     |                |                   |   |     | CF   |    |
|                                  | AISI 316L SS                       |     |                |                   |   |     | CG   |    |
| 3. DIAPHRAGM MATERIAL            | AISI 316L SS                       | DG  | Silver coated  | D8                | Tantalum                                  | DW  |      |    |
|                                  | Hastelloy C-276                    | DO  | Monel 400      | DM                | Gold Coated                               | D9  |      |    |
|                                  | Titanium                           | DV  | Inconel 600    | DQ                |   |     |      |    |
| 4. GASKETS                       | PTFE                               |     |                |                   |   |     | RP   |    |
|                                  | Metal                              |     |                |                   |   |     | RM   |    |
| 5. BOTTOM CHAMBER                | ASTM A105                          | BB  | PVC'           | B1                | Hastelloy C-276                           | BO  |      |    |
|                                  | AISI 316 SS                        | BF  | Polypropylene' | B4                | Tantalum                                  | BW  |      |    |
|                                  | Monel 400                          | BM  | AISI 304SS     | BC                | PVDF1                                     | B3  |      |    |
|                                  | Titanium                           | BV  | AISI 316L SS   | BG                | PTFE'                                     | B2  |      |    |
| 6. INSTRUMENT CONNECTION         | 3/8" BSP (F)                       | 3BF |                |                   | 1/2" NPT (F)                              | 4NF |      |    |
|                                  | 1/4" BSP (F)                       | 2BF |                |                   | 1/2" BSP (F)                              | 4BF |      |    |
|                                  | 1/4" NPT (F)                       | 2NF |                |                   |   |     |      |    |
| 7. 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   |    |
| 8. PROCESS CONNECTION            | "Refer Flange Table for the codes" |     |                |                   |   |     | XXX  |    |
| 9. FLANGE FACING                 | Flat Face                          |     |                |                   |   |     | FF   |    |
|                                  | Ring-Type Joint                    |     |                |                   |   |     | RT   |    |
|                                  | Raised Face                        |     |                |                   |   |     | RF   |    |
|                                  | Tongue and Groove (T&G)            |     |                |                   |   |     | TG   |    |
| 10. COUPLING FLANGES & HARDWARES | AISI 304SS - Machined              |     |                | LD                | AISI 316 SS - Machined                    |     | LH   |    |
| 11. PROTECTION ON WETTED PARTS   | PTFE lining on bottom chamber3     |     |                | PA                | PTFE coating on diaphragm or wetted parts |     |      | PC |
|                                  | PTFE protection for diaphragm      |     |                | PB                |   |     |      |    |
| 12. ASSEMBLY                     | Direct                             |     | B8             | Remote(capillary) |   |     | B9   |    |
| 13. CAPILLARY                    | AISI 304 SS                        |     | OU             | AISI 316 SS       |   |     | OV   |    |
| 14. ARMOUR                       | AISI 304 SS                        |     | OX             | AISI 316 SS       |   |     | OY   |    |
|                                  | PVC (Ambient max. 60°C)            |     | OZ             |                   |   |     |      |    |
| 15. REMOTE MOUNTING LENGTH       | 1000 mm up to 6000 mm              |     |                |                   |   |     | XXXX |    |
| 16. OTHER OPTIONS                | Dry seal                           |     |                | XZ                | Material test certificate 3.1             |     | SC   |    |
|                                  | Helium leak test                   |     |                | SL                |   |     |      |    |
|                                  | Material test certificate 2.2      |     |                | SM                |   |     |      |    |

Ordering Example MDS05 - R13 - CC - DG - RP - BC - 3BF - FA - XX - FF - LD - PA - B8

- Consult Factory if Pressure Rating Required Up to 10 Bar.
- Different sealing liquids Can be Provided, Please Refer Factory .
- Option PG has to be Selected Essentially, if Option PA is Chosen for Diaphragm DG.