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 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://itec.nt-rt.ru> || [ica@nt-rt.ru](mailto:ica@nt-rt.ru)

## THREADED DIAPHRAGM SEAL D103

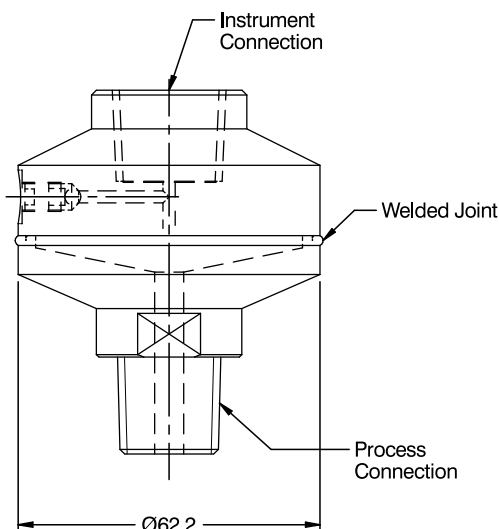


### STANDARD SPECIFICATIONS

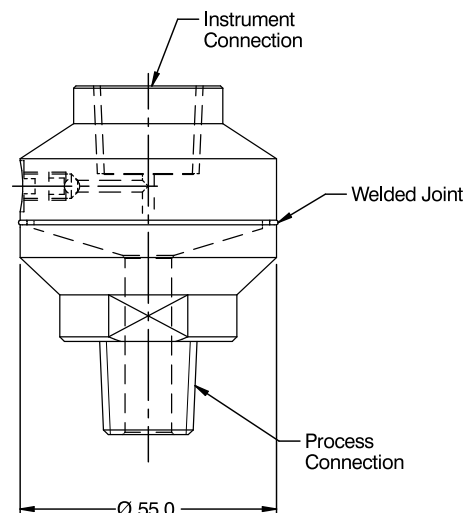
|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| Range type             | : -1...0 bar & 0...2.5 bar / 4...70 bar / 100...250 bar / 280...600 bar |
| Chamber material       | : AISI 316 SS                                                           |
| Diaphragm              | : AISI 316L SS                                                          |
| Instrument connection  | : 1/2" NPT (F)                                                          |
| Sealing fluid          | : Silicon DC 200 (-40...205°C)                                          |
| Process connection     | : 1/2" NPT (M)                                                          |
| Assembly               | : Direct                                                                |
| Capillary              | : Optional                                                              |
| Armour                 | : Optional                                                              |
| Remote mounting length | : Optional                                                              |

### DIMENSIONAL DRAWING

Type S11



Type S12



## FEATURES

- Economical and light weight
- All welded construction
- Laser welded diaphragm

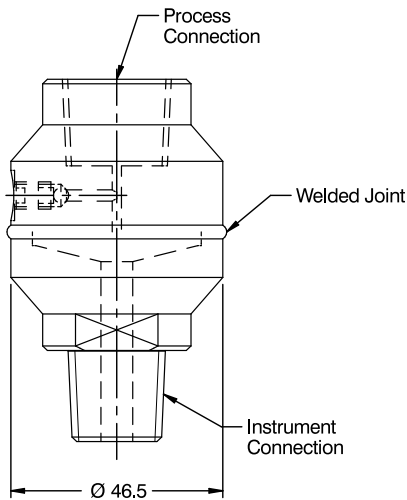
## APPLICATION

- Separation systems
- Isolation applications
- Viscous & corrosive media
- High-pressure applications
- High vibration application

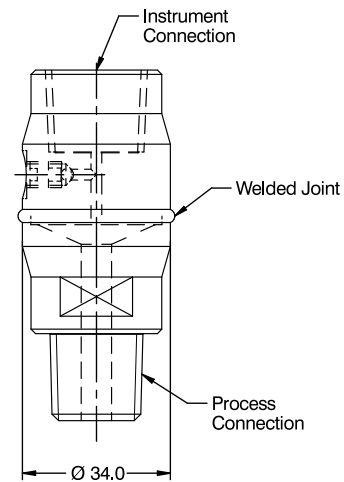
All dimensions are in mm.

## DIMENSIONAL DRAWING

Type S13



Type S14



All dimensions are in mm.

## ORDERING CODES

## 1. RANGE TYPE

|            |                          |
|------------|--------------------------|
| <b>S11</b> | -1...0 bar & 0...2.5 bar |
| <b>S12</b> | 4...70 bar               |
| <b>S13</b> | 100...250 bar            |
| <b>S14</b> | 280...600 bar            |

S11

## 2. CHAMBER MATERIAL

|           |             |           |                 |
|-----------|-------------|-----------|-----------------|
| <b>LF</b> | AISI 316 SS | <b>LG</b> | AISI 316L SS    |
| <b>NM</b> | Monel 400   | <b>NO</b> | Hastelloy C-276 |

LC

## 3. DIAPHRAGM MATERIAL

|           |              |           |                 |
|-----------|--------------|-----------|-----------------|
| <b>DG</b> | AISI 316L SS | <b>DO</b> | Hastelloy C-276 |
| <b>DV</b> | Titanium     | <b>D8</b> | Silver coated   |
| <b>DM</b> | Monel 400    | <b>DQ</b> | Inconel 600     |
| <b>DW</b> | Tantalum     |           |                 |

DG

## 4. INSTRUMENT CONNECTION

|            |              |            |              |
|------------|--------------|------------|--------------|
| <b>03B</b> | 3/8" BSP (F) | <b>04N</b> | 1/2" NPT (F) |
| <b>02B</b> | 1/4" BSP (F) | <b>04B</b> | 1/2" BSP (F) |
| <b>02N</b> | 1/4" NPT (F) |            |              |

04N

## 5. SEALING FLUID

|           |                                 |
|-----------|---------------------------------|
| <b>OA</b> | Silicon DC 200 [-40°C to 205°C] |
| <b>OF</b> | Food grade oil [-20°C to 140°C] |
| <b>OG</b> | Glycerine [10°C to 150°C]       |
| <b>OI</b> | Syltherm 800 [-40°C to 315°C]   |
| <b>OL</b> | Silicon DC 710 [7°C to 371°C]   |

OA

## 6. PROCESS CONNECTION

|            |              |            |               |
|------------|--------------|------------|---------------|
| <b>12B</b> | 1/4" BSP (M) | <b>13B</b> | 3/8" BSP (M)  |
| <b>14B</b> | 1/2" BSP (M) | <b>12N</b> | 1/4" NPT (M)  |
| <b>14N</b> | 1/2" NPT (M) | <b>14M</b> | M20 x 1.5 (M) |
| <b>02N</b> | 1/4" NPT (F) | <b>04N</b> | 1/2" NPT (F)  |
| <b>02B</b> | 1/4" BSP (F) | <b>04B</b> | 1/2" BSP (F)  |
| <b>03B</b> | 3/8" BSP (F) |            |               |

14N

## 7. ASSEMBLY

|           |                    |
|-----------|--------------------|
| <b>B8</b> | Direct             |
| <b>B9</b> | Remote (capillary) |

B8

## 8. CAPILLARY

|           |             |           |             |
|-----------|-------------|-----------|-------------|
| <b>OU</b> | AISI 304 SS | <b>OV</b> | AISI 316 SS |
|-----------|-------------|-----------|-------------|

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## 9. ARMOUR

|           |                         |           |             |
|-----------|-------------------------|-----------|-------------|
| <b>OX</b> | AISI 304 SS             | <b>OY</b> | AISI 316 SS |
| <b>OZ</b> | PVC (Ambient max. 60°C) |           |             |

XX

## 10. REMOTE MOUNTING LENGTH

|             |                       |
|-------------|-----------------------|
| <b>XXXX</b> | 1000 mm up to 4000 mm |
|-------------|-----------------------|

XXXX

## 11. OTHER OPTIONS

|           |                                               |
|-----------|-----------------------------------------------|
| <b>XZ</b> | Dry seal                                      |
| <b>HL</b> | Helium leak test                              |
| <b>TM</b> | Material test certificate 2.2                 |
| <b>TC</b> | Material test certificate 3.1                 |
| <b>E8</b> | Weld constructed bottom chamber (Eco version) |

XX

Ordering Example : D103-S11-LC-DG-04N-OA-14N-B8

## NOTES:

1. Other sealing liquids are available, contact factory for further details.
2. Remote mounting applicable in range type S11, S12 & S13.
3. All metal diaphragms are laser welded to the Top Chamber.

|                                    |                                   |                                        |                                       |                                 |
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| <b>Ангарск</b> (3955)60-70-56      | <b>Ижевск</b> (3412)26-03-58      | <b>Москва</b> (495)268-04-70           | <b>Рязань</b> (4912)46-61-64          | <b>Томск</b> (3822)98-41-53     |
| <b>Архангельск</b> (8182)63-90-72  | <b>Иркутск</b> (395)279-98-46     | <b>Мурманск</b> (8152)59-64-93         | <b>Самара</b> (846)206-03-16          | <b>Тула</b> (4872)33-79-87      |
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| <b>Барнаул</b> (3852)73-04-60      | <b>Калининград</b> (4012)72-03-81 | <b>Нижний Новгород</b> (831)429-08-12  | <b>Саратов</b> (845)249-38-78         | <b>Ульяновск</b> (8422)24-23-59 |
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