

## Data Sheet

# Sanitary Diaphragm Seal Series 322C

### FEATURES

- Stainless steel flush welded diaphragm seals
- Rupture protected due to embedded convolution behind the diaphragm
- Helium leak tested
- Minimized temperature errors
- Suitable for CIP and SIP

### TYPICAL USES

- Food and dairy processing
- Breweries, distilleries, wineries and citrus juice production
- Pharmaceuticals
- Personal hygiene and cosmetics industry
- Biotechnology
- Filtration



SEAL 322

### SPECIFICATIONS

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Diaphragm Seal type:               | 322C: Tri-Clamp (DIN 32676-A/B/C)                                        |
| Process Connection:                | 1.5", 2", Tri-clamp®                                                     |
| Instrument Connection:             | ¼ NPT Female<br>½ NPT Female (Only for 2")                               |
| Pressure Rating:<br>(MAWP)         | Limited by clamp                                                         |
| Accuracy Effect:                   | + 0,5% typical                                                           |
| Surface Roughness<br>of diaphragm: | optional: Ra <0,38 µm (15 µin) electro polished                          |
| Fill Fluid:                        | Halocarbon®, silicone, deionized water, white mineral oil(silicone free) |

### WETTED COMPONENTS

|            |                                                           |
|------------|-----------------------------------------------------------|
| Diaphragm: | Stainless steel 316L (1.4435)<br>Hastelloy C-276 (2.4819) |
|------------|-----------------------------------------------------------|

|       |                                                           |
|-------|-----------------------------------------------------------|
| Body: | Stainless steel 316L (1.4404)<br>Hastelloy C-276 (2.4819) |
|-------|-----------------------------------------------------------|

### MIN./MAX. TEMPERATURE LIMITS

Find the maximal allowable working temperature at page 2

### KEY BENEFITS

- Can be mounted to gauges, transmitters and switches
- No dead space
- Accessories attachable
- Flush diaphragm eliminates clogging
- Minimal fill volume reduces temperature error

### RECOMMENDED INSTRUMENTS

|              |                      |
|--------------|----------------------|
| Mechanical:  | T5500, Unigauge 1009 |
| Transmitter: | E2-Series            |
| Switch:      | A-Series             |

### RECOMMENDED ACCESSORIES

|                 |                                                                         |
|-----------------|-------------------------------------------------------------------------|
| Direct Reading: | Cooling tower for lowering high process temperatures                    |
| Remote Reading: | Capillary Line for remote places and lowering high process temperatures |

## Data Sheet

### Sanitary Diaphragm Seal Series 322C

| ORDERING CODE                                                |                                                                     | EXAMPLE:    | 15 | 322C | S | 02T | 15 | X6B |
|--------------------------------------------------------------|---------------------------------------------------------------------|-------------|----|------|---|-----|----|-----|
| <b>Connection size:</b>                                      |                                                                     |             |    |      |   |     |    |     |
| <b>DIN 32676-A/B/C</b>                                       |                                                                     |             |    |      |   |     |    |     |
| 15                                                           | 1- 1/2" Tri-clamp®                                                  |             | 15 |      |   |     |    |     |
| 20                                                           | 2" Tri-clamp®                                                       |             |    |      |   |     |    |     |
| <b>Model:</b>                                                |                                                                     |             |    |      |   |     |    |     |
| 322C                                                         | Tri-Clamp Sanitary Diaphragm Seal, +/- 0,5% typical                 |             |    | 322C |   |     |    |     |
| <b>Diaphragm and Wetted Parts Material:</b>                  |                                                                     |             |    |      |   |     |    |     |
| S                                                            | Body Stainless steel 316L (1.4404) and diaphragm 316L (1.4435)      |             |    |      | S |     |    |     |
| H                                                            | Hastelloy® C-276 (2.4819)                                           |             |    |      |   |     |    |     |
| <b>Instrument Connection Size:</b>                           |                                                                     |             |    |      |   |     |    |     |
| 02T                                                          | 1/4 NPT Female                                                      |             |    |      |   | 02T |    |     |
| 04T                                                          | 1/2 NPT Female (Only for 2")                                        |             |    |      |   |     |    |     |
| <b>Connection Size:</b>                                      |                                                                     |             |    |      |   |     |    |     |
| 15                                                           | 1.5" Tri-Clamp®                                                     |             |    |      |   |     | 15 |     |
| 20                                                           | 2" Tri-Clamp®                                                       |             |    |      |   |     |    |     |
| <b>Options (If choosing an option(s) must include a "X")</b> |                                                                     |             |    |      |   |     |    |     |
| 6B                                                           | Cleaned for gaseous oxygen service                                  |             |    |      |   |     |    | X6B |
| 6W                                                           | Product clean and degrease, not for strong oxidation application    |             |    |      |   |     |    |     |
| YF                                                           | Silicone free product 【Only for filling DI and MY (silicone free.)】 |             |    |      |   |     |    |     |
| EC                                                           | Electro polished wetted parts, Ra <0,38 µm (15 µin).                |             |    |      |   |     |    |     |
| CD2                                                          | Material test report according to EN 10204 / 2.2                    |             |    |      |   |     |    |     |
| C3                                                           | Certificate according to EN 10204/3.1                               |             |    |      |   |     |    |     |
| MQ                                                           | Positive Material Identification (PMI)                              |             |    |      |   |     |    |     |
| CF                                                           | Halocarbon                                                          | (-57~199°C) |    |      |   |     |    |     |
| CK                                                           | Silicone oil                                                        | (-40~260°C) |    |      |   |     |    |     |
| DI                                                           | Deionized Water                                                     | (4~85°C)    |    |      |   |     |    |     |
| MY                                                           | White Mineral Oil, Silicone free.                                   | (-10~205°C) |    |      |   |     |    |     |

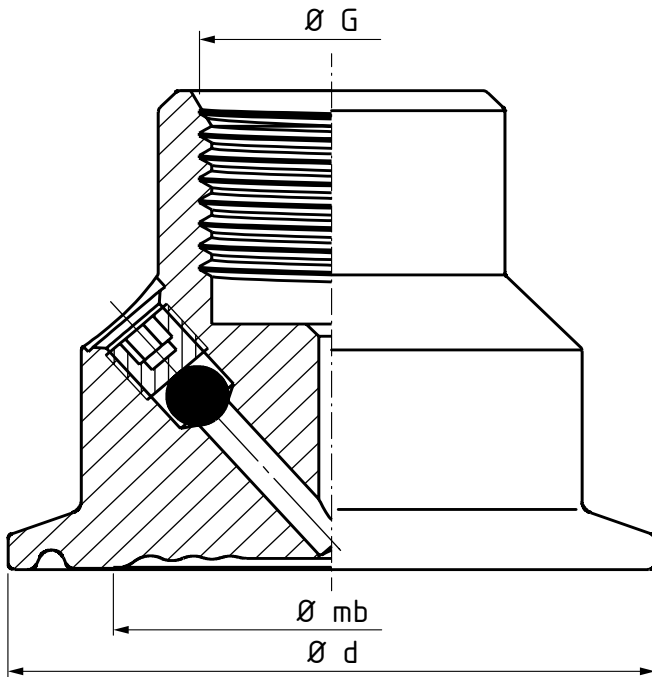
## Data Sheet

### Sanitary Diaphragm Seal Series 322C "Tri Clamp"

#### DIMENSIONS IN MM [INCH]

For reference only, consult Ashcroft for specific dimensional drawings

#### DIAPHRAGM SEAL 322C



| TRI-CLAMP<br>BS4825 - ISO 1127 AND ASME-BPE |      |                |               |             |              |
|---------------------------------------------|------|----------------|---------------|-------------|--------------|
| CON.<br>SIZE                                | CODE | Ød             | Ømb           | G           | WEIGHT<br>KG |
| 1,5"                                        | 15   | 50,5<br>[1,99] | 32<br>[1,26]  | ¼ NPT F     | 0,3          |
| 2"                                          | 20   | 64<br>[2,52]   | 44<br>[1,732] | ¼ or ½NPT F | 0,5          |