

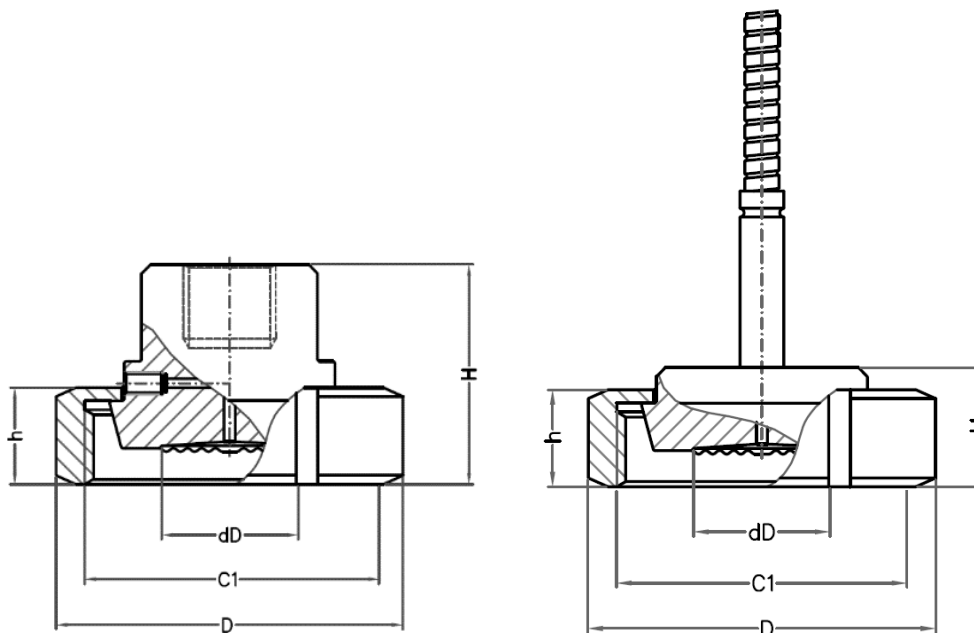
Badotherm sanitary seals are designed for pressure, level and flow measurements in food & beverage and pharmaceutical industries where the formation of bacteria needs to be prevented by reducing or eliminating blind spaces where process product could remain and thus creating impurities, bacteria by e.g. fermentation. As such these seals allow for easy cleaning by means of either threaded or clamp quick couplings. These seals are standard in stainless steel AISI 316(L). All these seals and fill fluid are suitable for CIP (Cleaning In Process) applications. Other aseptic flanged sanitary connections are available on request.


STANDARD EXECUTION – SAF / SAM

| | | | | |
|--------------------------|---------------------|--|------------------------------------|------------------------------|
| DIAPHRAGM AISI 316(L) | BODY AISI 316(L) | SURFACE FINISH WETTED PARTS Ra < 0.8 µm | MOUNTING CONNECTION top (axial) | COUPLING NUT SAF AISI 304 |
|--------------------------|---------------------|--|------------------------------------|------------------------------|

WETTED PARTS, BODY MATERIALS

| | |
|--|--|
| body material AISI 316(L) Wst. 1.4435 | diaphragm material AISI 316(L) Wst. 1.4435 |
|--|--|

FEMALE THREADED PROCESS CONNECTIONS - SAF

DIN 11851

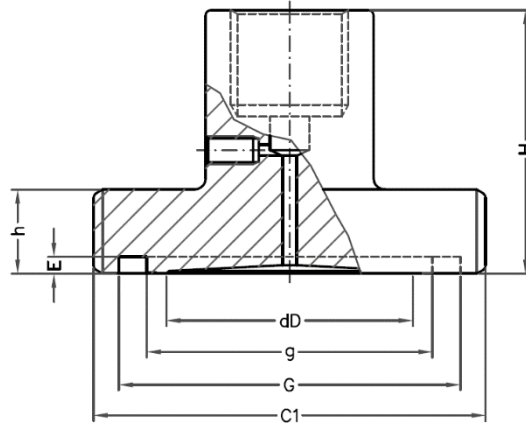
| size | rating | dD | D | h | H | C1 |
|-------------|--------|----|-----|----|----|--------------|
| DN25 | PN40 | 20 | 63 | 21 | 21 | Rd52 x 1/6" |
| DN32 | PN40 | 25 | 70 | 21 | 21 | Rd58 x 1/6" |
| DN40 | PN40 | 32 | 78 | 21 | 21 | Rd65 x 1/6" |
| DN50 | PN25 | 44 | 92 | 22 | 22 | Rd78 x 1/6" |
| DN80 | PN25 | 72 | 127 | 30 | 29 | Rd110 x 1/6" |

All dimensions in mm

SMS 1145

| size | rating | dD | D | h | H | C1 |
|-------------|--------|----|----|----|----|-------------|
| 1.5" | PN40 | 32 | 74 | 25 | 25 | Rd60 x 1/6" |
| 2" | PN40 | 44 | 84 | 26 | 26 | Rd70 x 1/6" |

All dimensions in mm

MALE THREADED PROCESS CONNECTIONS - SAM

DIN 11851

| size | rating | dD | E | g | G | h | H | C1 |
|-------------|--------|----|-----|----|----|----|----|--------------|
| DN25 | PN40 | 20 | 3.5 | 30 | 40 | 15 | 47 | Rd52 x 1/6" |
| DN32 | PN40 | 25 | 3.5 | 36 | 46 | 15 | 47 | Rd58 x 1/6" |
| DN40 | PN40 | 32 | 3.5 | 42 | 52 | 15 | 47 | Rd65 x 1/6" |
| DN50 | PN25 | 44 | 3.5 | 54 | 64 | 16 | 48 | Rd78 x 1/6" |
| DN80 | PN25 | 72 | 3.5 | 85 | 95 | 21 | 50 | Rd110 x 1/6" |

All dimensions in mm

SMS 1145

| size | rating | dD | E | g | G | h | H | C1 |
|-------------|--------|----|-----|----|----|----|----|----------|
| 1.5" | PN40 | 32 | 3.0 | 38 | 48 | 15 | 47 | Rd60*1/6 |
| 2" | PN40 | 44 | 3.0 | 51 | 61 | 15 | 47 | Rd70*1/6 |

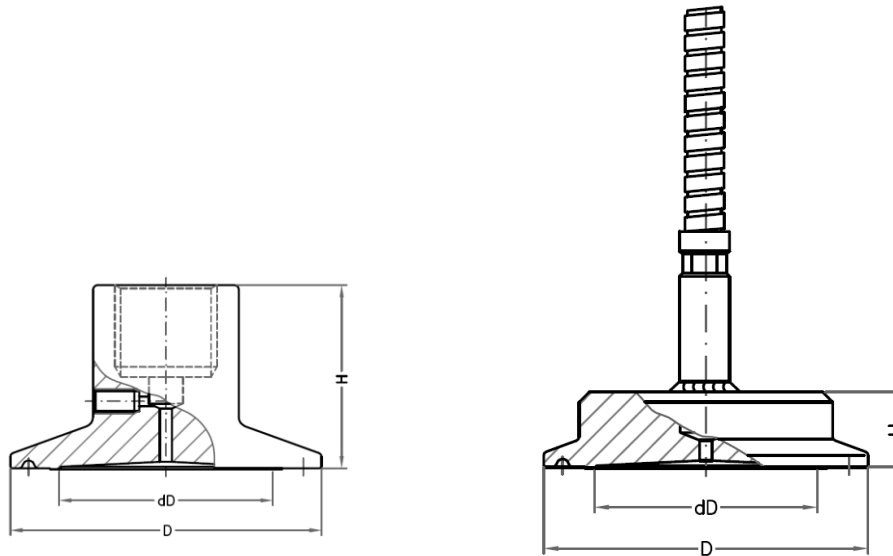
All dimensions in mm

STANDARD EXECUTION – SAT

| | | | |
|-------------|-------------|-----------------------------|---------------------|
| DIAPHRAGM | BODY | SURFACE FINISH WETTED PARTS | MOUNTING CONNECTION |
| AISI 316(L) | AISI 316(L) | Ra < 0.8 µm | top (axial) |

WETTED PARTS, BODY MATERIALS

| | |
|--------------------|--------------------|
| body material | diaphragm material |
| AISI 316(L) | AISI 316(L) |
| Wst. 1.4435 | Wst. 1.4435 |

CLAMP PROCESS CONNECTIONS – SAT

TRI-CLAMP ISO - 2852

| size | DN | For pipe | rating | dD | D | H _{thread} | H _{capillary} |
|------|-------|------------|--------|----|--------|---------------------|------------------------|
| 1.5" | 25 | 25.6x22.6 | PN40 | 32 | 50.5 | 38 | 15 |
| 2" | 40 | 40.6x37.6 | PN40 | 44 | 64.0 | 38 | 15 |
| 2.5" | 63.5 | 64.1x60.3 | PN25 | 52 | 78.0 | 30 | 15 |
| 3" | 76.1 | 76.7x72.9 | PN25 | 72 | 91.0 | 30 | 15 |
| 4" | 101.6 | 102.5x97.6 | PN25 | 81 | 119.0r | 30 | 15 |

Note: for maximum pressure rating refer to the clamp specifications; dimensions suitable for pipe per ISO 2037 and BS 4825 part 1
All dimensions in mm

TRI-CLAMP DIN 32676

| size | For pipe | rating | dD | D | H _{thread} | H _{capillary} |
|------|----------|--------|----|-----|---------------------|------------------------|
| 40 | 41x38 | PN40 | 32 | 51 | 38 | 15 |
| 50 | 53x50 | PN40 | 44 | 64 | 38 | 15 |
| 65 | 70x66 | PN25 | 52 | 91 | 30 | 15 |
| 80 | 85x81 | PN25 | 72 | 106 | 30 | 15 |
| 100 | 104x100 | PN25 | 81 | 119 | 30 | 15 |

Note: for maximum pressure rating refer to the clamp specifications; dimensions suitable for pipe acc. DIN 11866 row A or DIN 11850 row 2
All dimensions in mm

| size | For pipe | rating | dD | D | H _{thread} | H _{capillary} |
|------|-----------|--------|----|-------|---------------------|------------------------|
| 42.4 | 42.4x38.4 | PN40 | 32 | 64.0 | 38 | 15 |
| 48.3 | 48.3x44.3 | PN40 | 32 | 64.0 | 38 | 15 |
| 60.3 | 60.3x56.3 | PN40 | 44 | 77.5 | 30 | 15 |
| 76.1 | 76.1x72.1 | PN25 | 58 | 91.0 | 30 | 15 |
| 88.9 | 88.9x84.3 | PN25 | 72 | 106.0 | 30 | 15 |

Note: for maximum pressure rating refer to the clamp specifications; dimensions suitable for pipe acc. DIN 11866 row B or ISO1127 row 1
All dimensions in mm

| size | For pipe | rating | dD | D | H _{thread} | H _{capillary} |
|------|-----------|--------|----|------|---------------------|------------------------|
| 1" | 25.4x22.1 | PN40 | 20 | 50.5 | 38 | 15 |
| 1.5" | 38.1x34.8 | PN40 | 23 | 50.5 | 38 | 15 |
| 2" | 50.8x47.5 | PN40 | 44 | 64.0 | 30 | 15 |
| 2.5" | 63.5x60.2 | PN40 | 50 | 77.5 | 30 | 15 |
| 3" | 76.2x72.9 | PN25 | 58 | 91.0 | 30 | 15 |

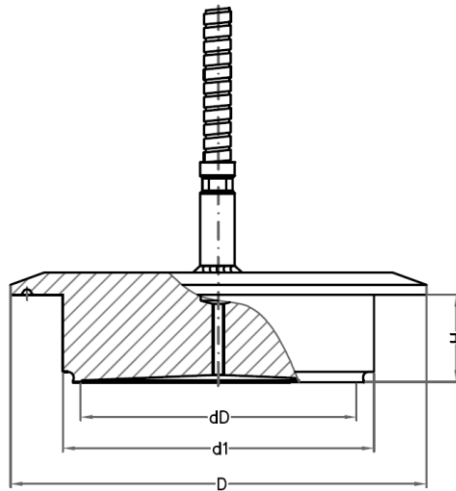
Note: for maximum pressure rating refer to the clamp specifications; dimensions suitable for pipe acc. DIN 11866 row C or ASME BPE
All dimensions in mm

STANDARD EXECUTION – SA-TS

| | | | |
|-------------|-------------|-----------------------------|---------------------|
| DIAPHRAGM | BODY | SURFACE FINISH WETTED PARTS | MOUNTING CONNECTION |
| AISI 316(L) | AISI 316(L) | Ra < 0.8 µm | top (axial) |

WETTED PARTS, BODY MATERIALS

| | |
|--------------------|--------------------|
| body material | diaphragm material |
| AISI 316(L) | AISI 316(L) |
| Wst. 1.4435 | Wst. 1.4435 |

CLAMP PROCESS CONNECTIONS – SA-TS

TANK SPUD

| Extension length | rating | dD | d1 | D | H |
|------------------|--------|----|-----|-----|-----|
| 2" | PN40 | 81 | 100 | 133 | 54 |
| 6" | PN40 | 81 | 100 | 133 | 152 |

All dimensions in mm

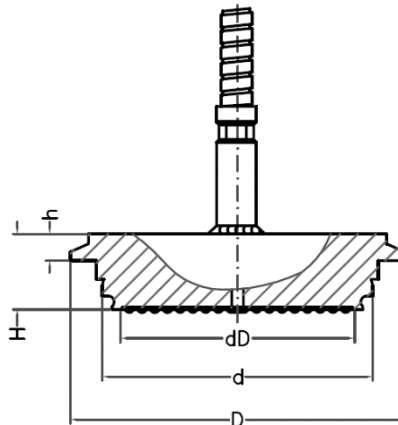
STANDARD EXECUTION – SA-V

| | | | |
|-------------|-------------|-----------------------------|---------------------|
| DIAPHRAGM | BODY | SURFACE FINISH WETTED PARTS | MOUNTING CONNECTION |
| AISI 316(L) | AISI 316(L) | Ra < 0.8 μm | top (axial) |

WETTED PARTS, BODY MATERIALS

| | |
|--------------------|--------------------|
| body material | diaphragm material |
| AISI 316(L) | AISI 316(L) |
| Wst. 1.4435 | Wst. 1.4435 |

CLAMP PROCESS CONNECTIONS – SA-V



VARIVENT®

| Connection | Size VARILINE® | rating | dD | d | D | h | H | Clamp |
|---------------|------------------------------------|--------|----|----|----|---|----|-------|
| Type F | DN25/ISO25 and 1" | PN40 | 44 | 50 | 66 | 5 | 19 | 66 |
| Type N | DN40-DN125 / ISO32-100 and 1.5"-6" | PN40 | 57 | 68 | 84 | 5 | 19 | 84 |

All dimensions in mm

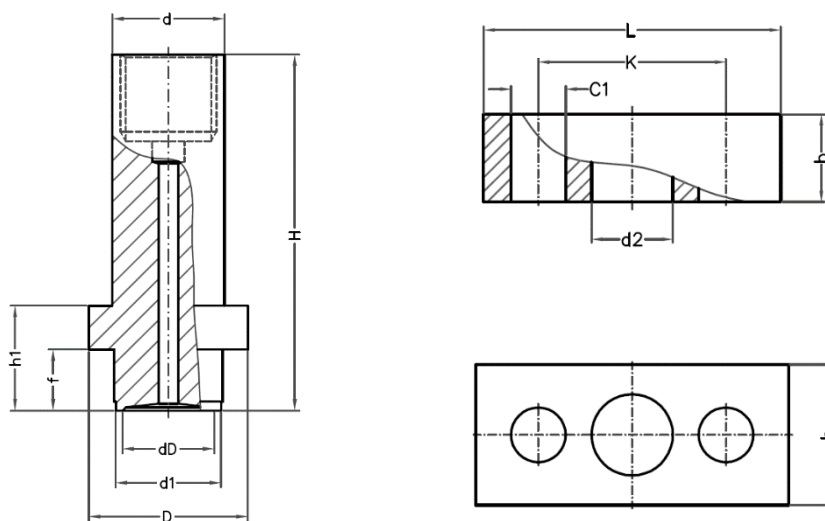
STANDARD EXECUTION – SA-HOM

| | | | |
|-------------|-------------|-----------------------------|---------------------|
| DIAPHRAGM | BODY | SURFACE FINISH WETTED PARTS | MOUNTING CONNECTION |
| AISI 316(L) | AISI 316(L) | Ra < 0.8 µm | top (axial) |

WETTED PARTS, BODY MATERIALS

| | |
|---------------|--------------------|
| body material | diaphragm material |
| AISI 316(L) | AISI 316(L) |
| Wst. 1.4435 | Wst. 1.4435 |

HOMOGENISER PROCESS CONNECTIONS – SA-HOM



| size | rating | dD | b | d | d1 | d2 | D | f | h1 | H | K | C1 | Lxh |
|-------------|--------|----|----|----|----|----|----|----|----|----|----|------|-------|
| Block 95x45 | PN600 | 20 | 30 | 25 | 24 | 25 | 35 | 13 | 23 | 78 | 60 | 17.5 | 95x45 |

All dimensions in mm