

## Supplementary instructions

### Welded socket, threaded and hygienic adapter



Document ID: 48094



**VEGA**

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## 1 Product description

### Welded socket

Welded sockets are used for connection of sensors to the process.

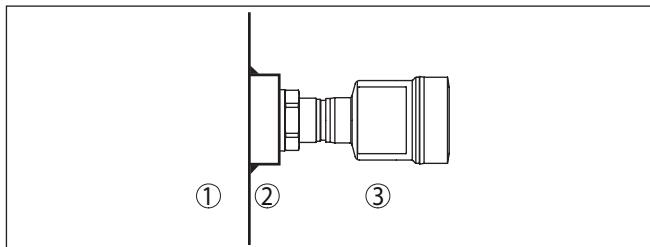


Fig. 1: Function of a welded socket

- 1 Vessel
- 2 Welded socket
- 3 Sensor

### Adapter

Threaded adapters are used to adapt sensors with threaded connection to existing welded sockets.

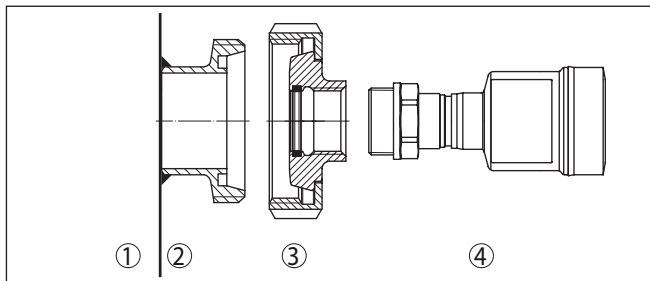


Fig. 2: Function, threaded adapter

- 1 Vessel
- 2 Welded socket
- 3 Adapter
- 4 Sensor

### Hygienic adapter

Hygienic adapters are used to adapt sensors with threaded connection and cone or O-ring to existing hygienic welded sockets.

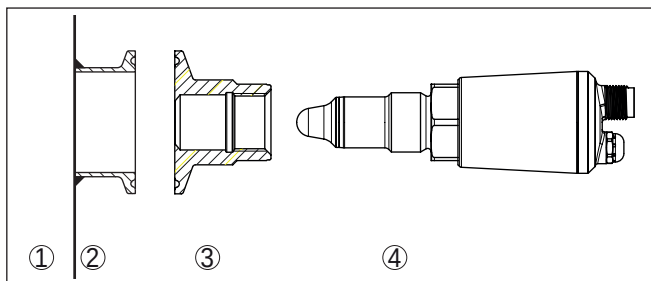


Fig. 3: Function hygienic adapter

- 1 Vessel
- 2 Welded socket
- 3 Hygienic adapter
- 4 Sensor

### Process seal

A process seal is required to use the welded sockets or threaded adapters. Depending on the version, the process seal is included as an optional component in the scope of delivery of the welded socket or the sensor.

### Pressure device directive

The welding sockets, threaded and hygienic adapters described here are not subject to the EU Pressure Equipment Directive if they are operated at process pressures  $\leq 200$  bar.

2 Welded socket - universal

2.1 Thread

Thread G $\frac{1}{2}$

| Feature               | Characteristic  |
|-----------------------|-----------------|
| Size                  | G $\frac{1}{2}$ |
| Standard              | DIN 3852-X      |
| Pressure stage        | PN 60           |
| Material              | 316L            |
| Product code/Art. no. | 2.36839         |
| Seal                  | Sensor side     |

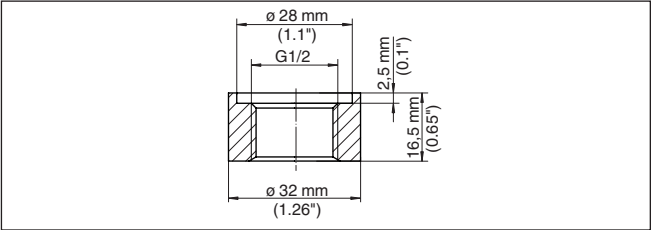


Fig. 4: Dimensions of welded socket, thread G $\frac{1}{2}$  (DIN 3852-X)

Thread G $\frac{3}{4}$

| Feature               | Characteristic  |
|-----------------------|-----------------|
| Size                  | G $\frac{3}{4}$ |
| Standard              | DIN 3852-X      |
| Pressure stage        | PN 60           |
| Material              | 316L            |
| Product code/Art. no. | 2.36840         |
| Seal                  | Sensor side     |

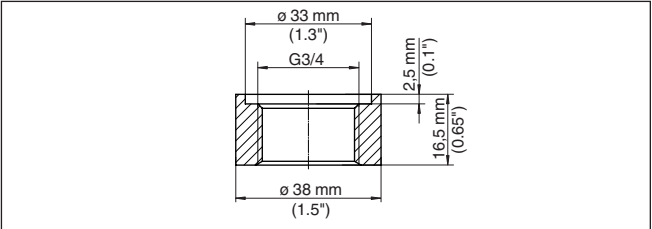


Fig. 5: Dimensions of welded socket, thread G $\frac{3}{4}$  (DIN 3852-X)

Thread G1

| Feature | Characteristic |
|---------|----------------|
| Size    | G1             |

| Feature               | Characteristic |
|-----------------------|----------------|
| Standard              | DIN 3852-X     |
| Pressure stage        | PN 60          |
| Material              | 316L           |
| Product code/Art. no. | 2.36841        |
| Seal                  | Sensor side    |

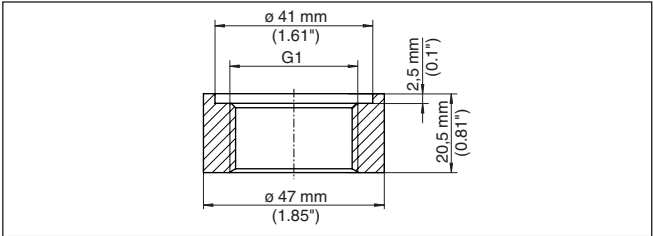


Fig. 6: Dimensions of welded socket, thread G1 (DIN 3852-X)

### Thread G1½

| Feature               | Characteristic |
|-----------------------|----------------|
| Size                  | G1½            |
| Standard              | DIN 3852-X     |
| Pressure stage        | PN 60          |
| Material              | 316L           |
| Product code/Art. no. | 2.36842        |
| Seal                  | Sensor side    |

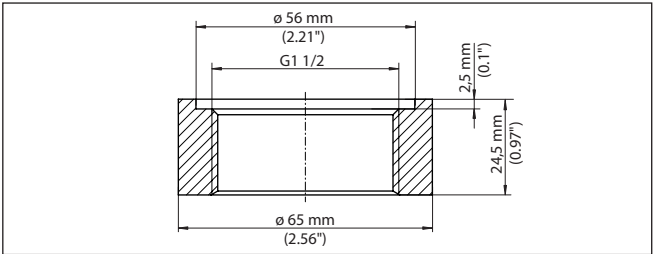


Fig. 7: Dimensions of welded socket, thread G1½ (DIN 3852-X)

### Thread G¾ - Hygienic design

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G¾             |
|               | Standard              | ISO 228-1      |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESMD.A1X       |

| Part | Feature       | Characteristic             |
|------|---------------|----------------------------|
| Seal | Material      | FKM, EPDM                  |
|      | Configuration | Seal ring acc. to DIN 3869 |
|      | Size          | 23.47 x 2.62 mm            |

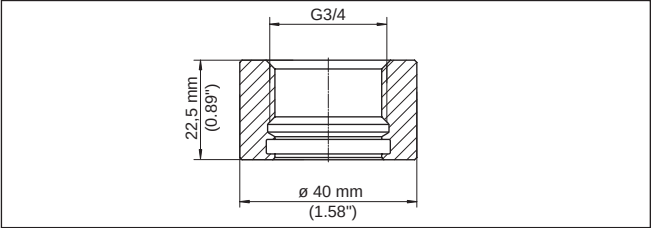


Fig. 8: Dimensions of welded socket, thread G $\frac{3}{4}$  (ISO 228-1) - Hygienic design

**Thread G1½ - Hygienic design**

| Part          | Feature               | Characteristic             |
|---------------|-----------------------|----------------------------|
| Welded socket | Size                  | G1½                        |
|               | Standard              | ISO 228-1                  |
|               | Material              | 316L                       |
|               | Product code/Art. no. | ESMD.B1X                   |
| Seal          | Material              | FKM, EPDM, FFKM            |
|               | Configuration         | Seal ring acc. to DIN 3869 |
|               | Size                  | 42 x 3 mm                  |
| Welding dummy | Material              | Brass                      |
| Blind plug    | Material              | 316L                       |

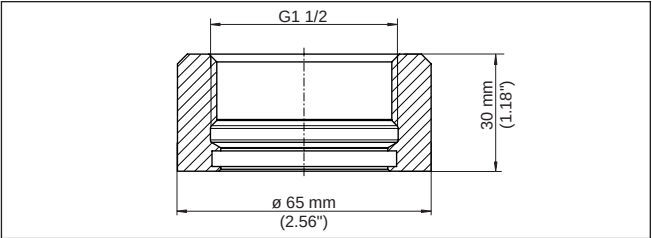


Fig. 9: Dimensions of welded socket, thread G1½ (ISO 228-1) - Hygienic design



# 2.2 Clamp

## Clamp 1½"

| Component     | Feature               | Characteristic      |
|---------------|-----------------------|---------------------|
| Welded socket | Size                  | 1½"                 |
|               | Standard              | DIN 32676, ISO 2852 |
|               | Pressure stage        | PN 16               |
|               | Material              | 316L                |
|               | Product code/Art. no. | ESTC.B3SX           |
| Tension ring  | Pressure stage        | PN 16, PN 40        |
|               | Material              | 316L                |
| Seal          | Material              | EPDM, FKM           |
|               | Configuration         | Seal ring           |

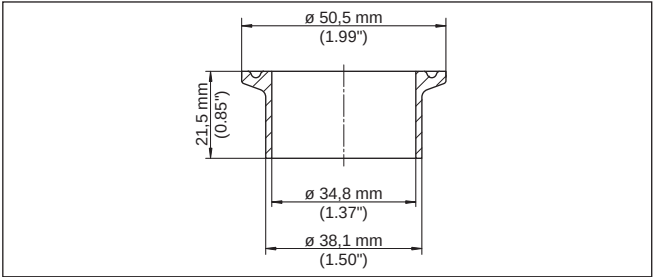


Fig. 10: Dimensions of welded socket, Clamp 1½" (DIN 32676, ISO 2852)  
PN 16

## Clamp 2"

| Component     | Feature               | Characteristic      |
|---------------|-----------------------|---------------------|
| Welded socket | Size                  | 2"                  |
|               | Standard              | DIN 32676, ISO 2852 |
|               | Pressure stage        | PN 16               |
|               | Material              | 316L                |
|               | Product code/Art. no. | ESTC.C3SX           |
| Tension ring  | Pressure stage        | PN 16, PN 40        |
|               | Material              | 316L                |
| Seal          | Material              | EPDM, FKM           |
|               | Configuration         | Seal ring           |

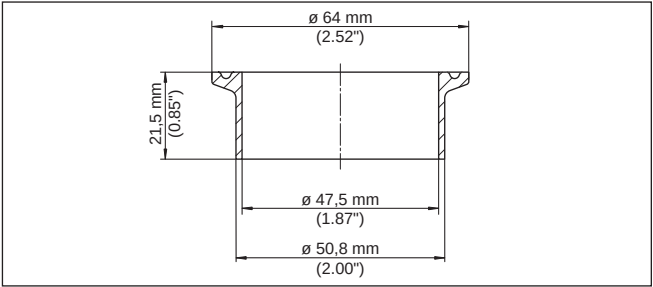


Fig. 11: Dimensions of welded socket, Clamp 2" (DIN 32676, ISO 2852) PN 16

### 2.3 Slotted nut acc. to DIN 11851

#### Slotted nut DN 40

| Component     | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | DN 40          |
|               | Standard              | DIN 11851      |
|               | Pressure stage        | PN 40          |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESTR.FA3X      |
| Seal          | Material              | FKM, EPDM, NBR |
|               | Configuration         | Seal ring      |

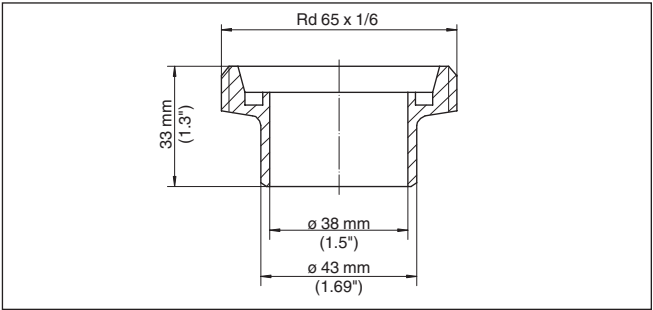


Fig. 12: Dimensions of welded socket, slotted nut DN 40 (DIN 11851)

#### Slotted nut DN 50

| Component     | Feature | Characteristic |
|---------------|---------|----------------|
| Welded socket | Size    | DN 50          |

| Component | Feature               | Characteristic |
|-----------|-----------------------|----------------|
|           | Standard              | DIN 11851      |
|           | Pressure stage        | PN 25          |
|           | Material              | 316L           |
|           | Product code/Art. no. | ESTR.GA3X      |
| Seal      | Material              | FKM, EPDM, NBR |
|           | Configuration         | Seal ring      |

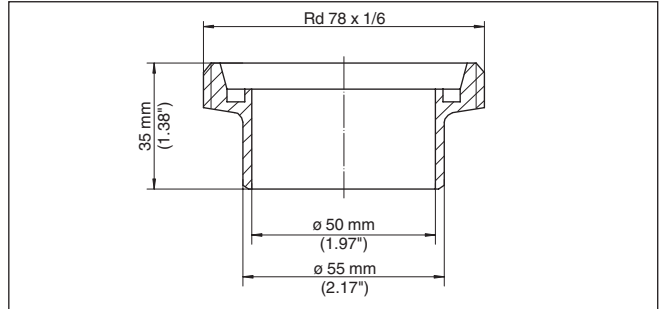


Fig. 13: Dimensions of welded socket, slotted nut DN 50 (DIN 11851)

## 2.4 Slotted nut acc. to DIN 11864-1

### Slotted nut DN 40

| Component     | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | DN 40          |
|               | Standard              | DIN 11864-1    |
|               | Pressure stage        | PN 25          |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESTR.FBXX      |
| Seal          | From the user side    |                |

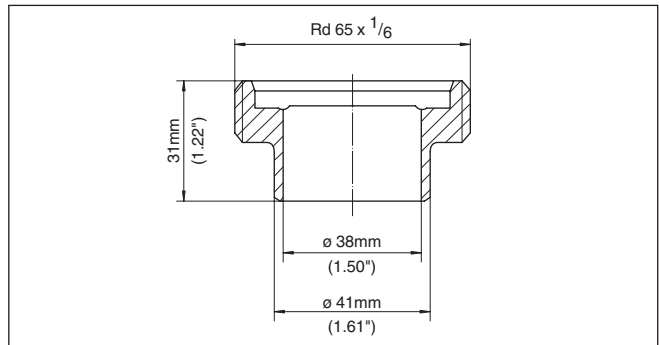


Fig. 14: Dimensions of welded socket, slotted nut DN 40 (DIN 11864-1)

## Slotted nut DN 50

| Component     | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | DN 50          |
|               | Standard              | DIN 11864-1    |
|               | Pressure stage        | PN 16          |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESTR.GBXX      |
| Seal          | From the user side    |                |

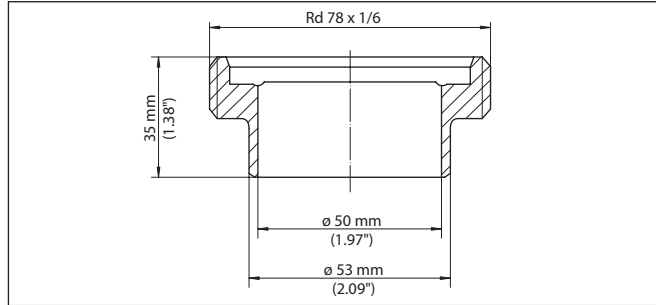


Fig. 15: Dimensions of welded socket, slotted nut DN 50 (DIN 11864-1)

## 2.5 Further hygienic fittings

### Hygienic connection F40 with compression nut

| Component     | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | Rd 65 x 1/6    |
|               | Standard              | -              |
|               | Pressure stage        | PN 25          |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESTA.LA3XXX    |
| Seal          | Material              | EPDM           |
|               | Configuration         | O-ring         |
|               | Size                  | 40 x 5 mm      |
| Welding dummy | Material              | Brass          |
| Blind plug    | Material              | 316L           |

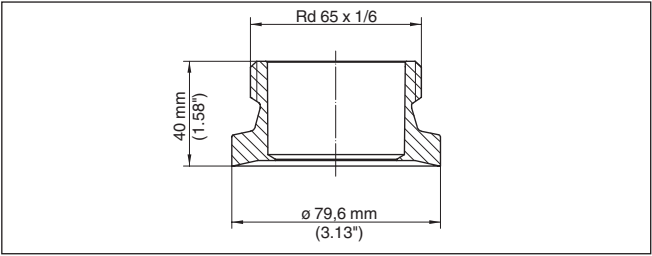


Fig. 16: Dimensions of welded socket, hygienic fitting F40 with compression nut

Hygienic fitting DN 32 with tension flange

| Component     | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | ø 90           |
|               | Standard              | -              |
|               | Pressure stage        | PN 25          |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESTA.LBXXX     |
| Seal          | Material              | EPDM           |
|               | Configuration         | O-ring         |
|               | Size                  | 40 x 5 mm      |
| Welding dummy | Material              | Brass          |
| Blind plug    | Material              | 316L           |

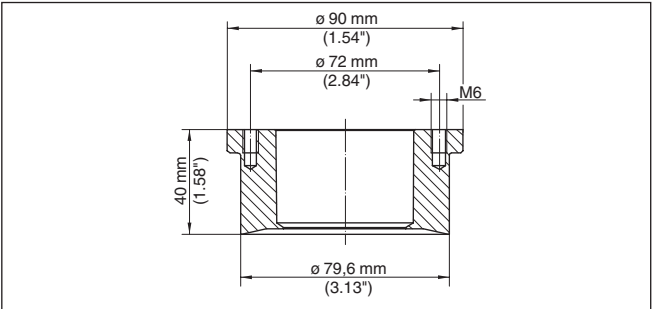


Fig. 17: Dimensions of welded socket, hygienic fitting DN 32 with tension flange

DRD connection

| Component     | Feature | Characteristic |
|---------------|---------|----------------|
| Welded socket | Size    | ø 105          |

| Component | Feature               | Characteristic |
|-----------|-----------------------|----------------|
|           | Standard              | -              |
|           | Pressure stage        | PN 40          |
|           | Material              | 316L           |
|           | Product code/Art. no. | ESTD.AAXX      |
| Seal      | Material              | PTFE           |
|           | Configuration         | Flat seal      |
|           | Size                  | 50 x 66 x 1 mm |

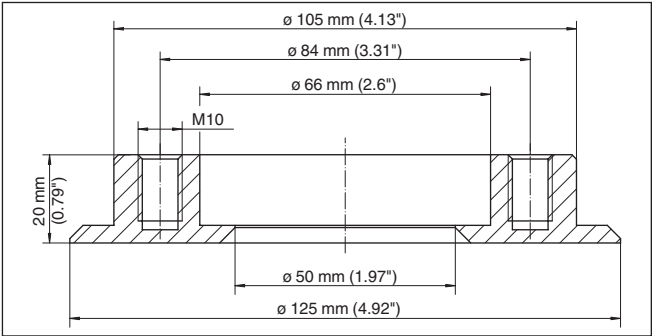


Fig. 18: Dimensions of welded socket, DRD

**Cone connection DN 25/  
Rd52 x 2**

| Component     | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | DN 25          |
|               | Standard              | -              |
|               | Pressure stage        | -              |
|               | Material              | 316Ti          |
| Seal          | Product code/Art. no. | ESTK.KAXX      |
|               | Material              | EPDM           |
|               | Configuration         | O-ring         |
|               | Size                  | 30 x 3 mm      |

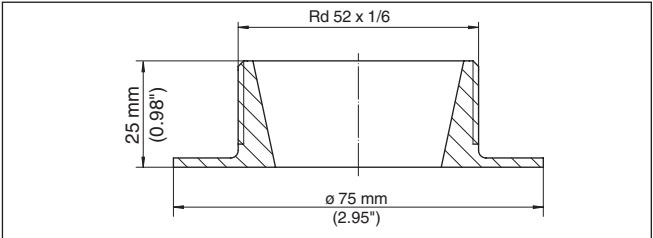


Fig. 19: Dimensions of welded socket, conus connection DN 25

### 3 Welded socket - VEGASWING series 50

#### 3.1 Thread

##### Thread G $\frac{3}{4}$

| Part          | Feature               | Characteristic        |
|---------------|-----------------------|-----------------------|
| Welded socket | Size                  | G $\frac{3}{4}$       |
|               | Standard              | DIN 3852-A, ISO 228-1 |
|               | Pressure stage        | PN 60                 |
|               | Material              | 316L                  |
|               | Product code/Art. no. | WSSG.XGBXXX           |
| Seal          | Material              | FKM, EPDM             |
|               | Configuration         | O-ring                |
|               | Size                  | 21 x 3 mm             |

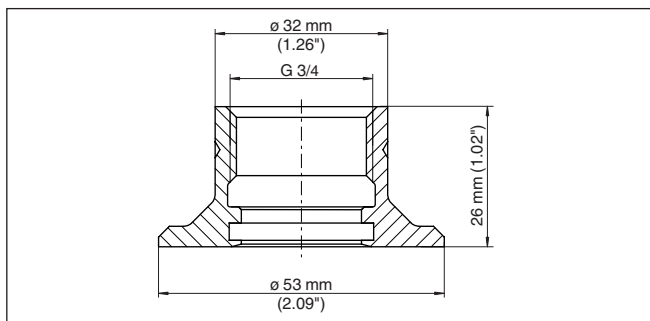


Fig. 20: Dimensions welded socket G $\frac{3}{4}$  (DIN 3852-A, ISO 228-1)

##### Thread G1

| Part          | Feature               | Characteristic        |
|---------------|-----------------------|-----------------------|
| Welded socket | Size                  | G1                    |
|               | Standard              | DIN 3852-A, ISO 228-1 |
|               | Pressure stage        | PN 60                 |
|               | Material              | 316L                  |
|               | Product code/Art. no. | WSSG.XGAXXX           |
| Seal          | Material              | FKM, EPDM             |
|               | Configuration         | O-ring                |
|               | Size                  | 21 x 3 mm             |

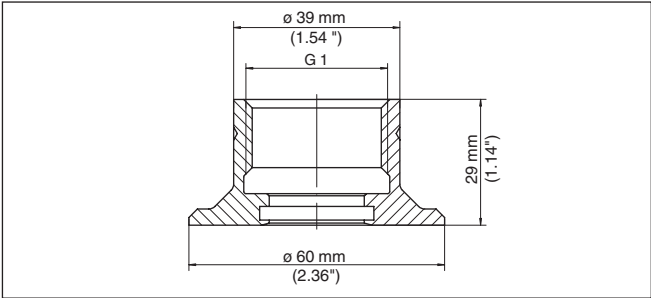


Fig. 21: Dimensions welded socket G1 (DIN 3852-A, ISO 228-1)

**Thread G1 with leakage hole**

| Part          | Feature               | Characteristic        |
|---------------|-----------------------|-----------------------|
| Welded socket | Size                  | G1                    |
|               | Standard              | DIN 3852-A, ISO 228-1 |
|               | Pressure stage        | PN 60                 |
|               | Material              | 316L                  |
|               | Product code/Art. no. | WSSG.XGLXXX           |
| Seal          | Material              | FKM, EPDM             |
|               | Configuration         | O-ring                |
|               | Size                  | 21.82 x 3.53 mm       |

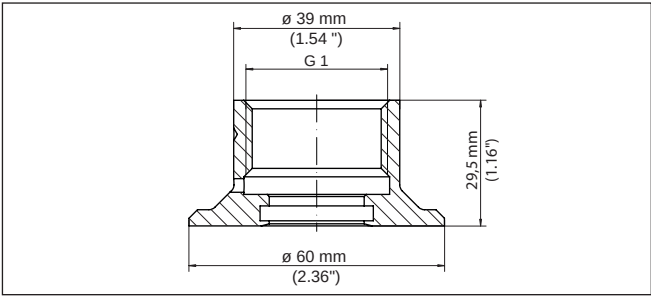


Fig. 22: Dimensions welded socket G1 (DIN 3852-A, ISO 228-1) with leakage hole

**Thread G1 - Cone seal**

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | ISO 228-1      |
|               | Material              | 316L           |
|               | Product code/Art. no. | WSSG.XAMXXX    |



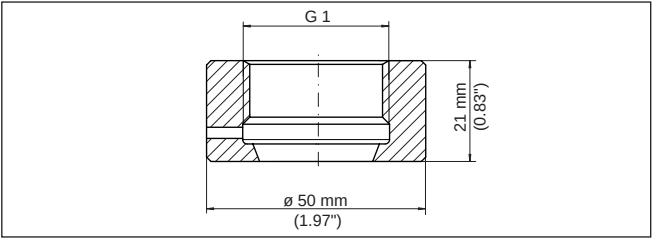


Fig. 23: Dimensions direct welded socket G1 (ISO 228-1) - Cone seal

Thread G1 - O-ring seal

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | ISO 228-1      |
|               | Material              | 316L           |
|               | Product code/Art. no. | WSSG.1AFXXX    |

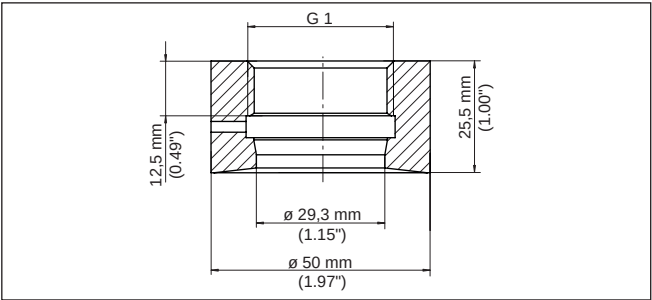


Fig. 24: Dimensions direct welded socket G1 (ISO 228-1) - O-ring seal

Thread G1 for pipe mounting - Cone sealing

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | ISO 228-1      |
|               | Material              | 316L           |
|               | Product code/Art. no. | WSSG.1AVXXX    |

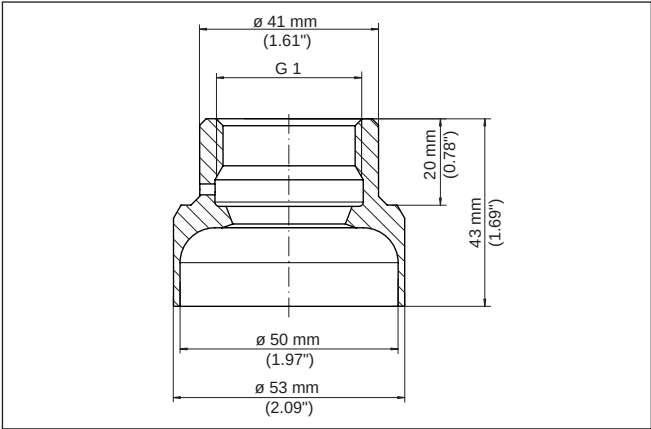


Fig. 25: Dimensions direct welded socket for pipe mounting G1 (ISO 228-1) - Cone sealing

**Thread G1 for pipe mounting - O-ring sealing**

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G1              |
|               | Standard              | ISO 228-1       |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSSG.1AUXXX     |
| Seal          | Material              | EPDM            |
|               | Configuration         | O-ring seal     |
|               | Size                  | 21.82 x 3.53 mm |

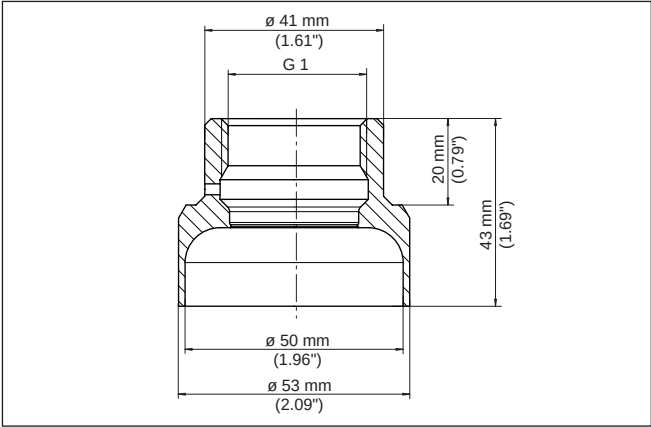


Fig. 26: Dimensions direct welded socket for pipe mounting G1 (ISO 228-1) - O-ring sealing

### 3.2 Hygienic fittings

#### Clamp 1"

| Part          | Feature               | Characteristic      |
|---------------|-----------------------|---------------------|
| Welded socket | Size                  | Clamp 1½"           |
|               | Standard              | DIN 32676, ISO 2852 |
|               | Pressure stage        | PN 25               |
|               | Product code/Art. no. | WSSG.1CLXXX         |
| Seal          | Material              | FKM, EPDM           |
|               | Configuration         | Clamp seal          |

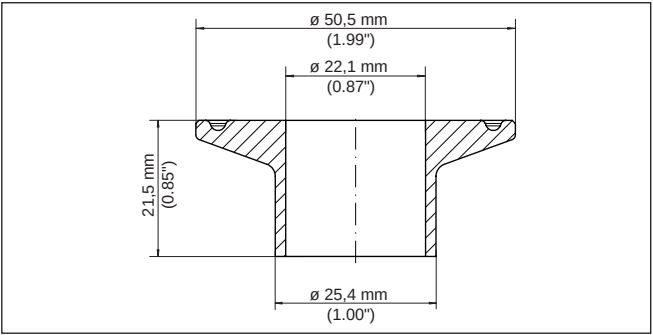


Fig. 27: Dimensions of welded socket, Clamp 1" (DIN 32676, ISO 2852)

## 4 Welded socket - VEGAPOINT series 10, 20, 30

### 4.1 Thread

Thread G $\frac{1}{2}$  - L = 15 mm

| Part          | Feature               | Characteristic       |
|---------------|-----------------------|----------------------|
| Welded socket | Size                  | G $\frac{1}{2}$      |
|               | Standard              | DIN 3852-A           |
|               | Pressure stage        | PN 25                |
|               | Material              | 316L                 |
|               | Product code/Art. no. | WSPT.XABXXX          |
| Seal          | Material              | Klingsil C-4400      |
|               | Configuration         | Flat seal            |
|               | Size                  | 21.5 x 25.7 x 1.5 mm |
| Welding dummy | Material              | Brass                |

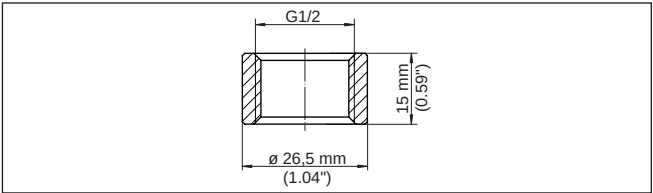


Fig. 28: Dimensions welded socket G1 (DIN 3852-A) - L = 15 mm

Thread G $\frac{1}{2}$  - Hygienic version

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G $\frac{1}{2}$ |
|               | Standard              | ISO 228-1       |
|               | Pressure stage        | PN 25           |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSPT.XACXXX     |
| Welding dummy | Material              | Brass           |

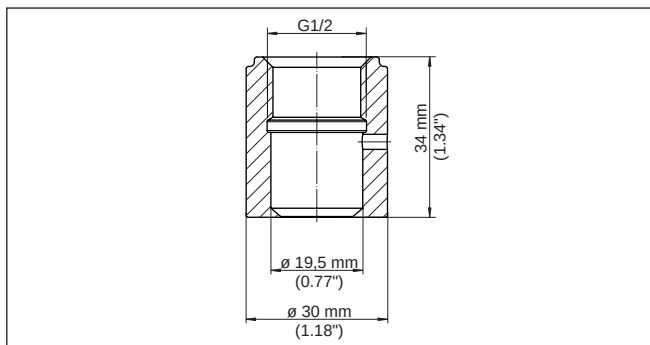


Fig. 29: Dimensions welded socket G $\frac{1}{2}$  (ISO 228-1) - Hygienic version

**Thread G $\frac{3}{4}$  - L = 26 mm**

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G $\frac{3}{4}$ |
|               | Standard              | ISO 228-1       |
|               | Pressure stage        | PN 25           |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSPT.XGBXXX     |
| Seal          | Material              | FKM, EPDM       |
|               | Configuration         | O-ring seal     |
|               | Size                  | 21 x 3 mm       |
| Welding dummy | Material              | Brass           |

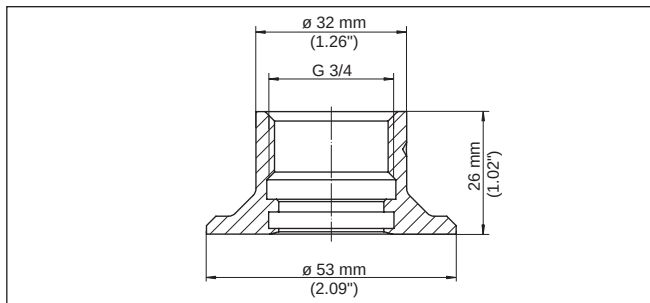


Fig. 30: Dimensions of welded socket, G $\frac{3}{4}$  (ISO 228-1)

**Thread G1 - L = 20.5 mm**

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G1              |
|               | Standard              | DIN 3852-A      |
|               | Pressure stage        | PN 25           |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSPT.XAEXXX     |
| Seal          | Material              | Klingsil C-4400 |
|               | Configuration         | Flat seal       |
|               | Size                  | 33 x 39 x 2 mm  |
| Welding dummy | Material              | Brass           |

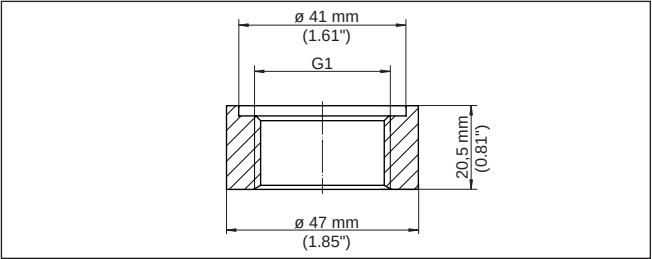


Fig. 31: Dimensions of welded socket, G1 (ISO 228)

**Thread G1 - Cone seal**

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | ISO 228-1      |
|               | Pressure stage        | PN 25          |
|               | Material              | 316L           |
|               | Product code/Art. no. | WSPT.XAMXXX    |
| Welding dummy | Material              | Brass          |

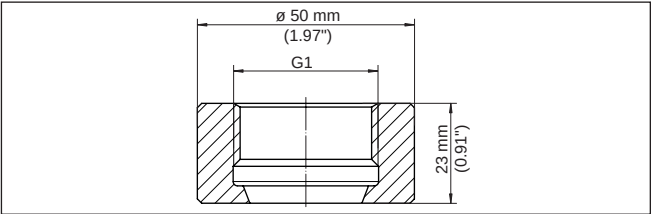
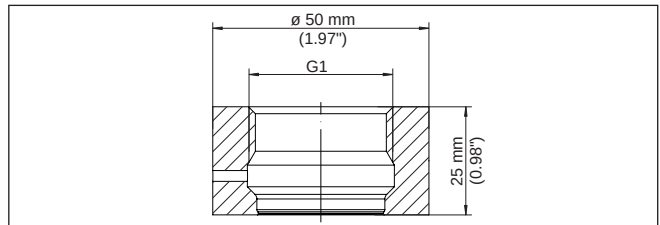


Fig. 32: Dimensions welded socket G1 (ISO 228-1) - Cone seal

**Thread G1 - O-ring seal**

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G1              |
|               | Standard              | ISO 228-1       |
|               | Pressure stage        | PN 25           |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSPT.XAFXXX     |
| Seal          | Material              | EPDM            |
|               | Configuration         | O-ring seal     |
|               | Size                  | 21.82 x 3.53 mm |
| Welding dummy | Material              | Messing         |

*Fig. 33: Dimensions welded socket G1 (ISO 228-1) - O-ring seal***4.2 Thread for tube mounting****Thread G1 for pipe mounting - Cone sealing**

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | ISO 228-1      |
|               | Material              | 316L           |
|               | Product code/Art. no. | WSPT.XAVXXX    |

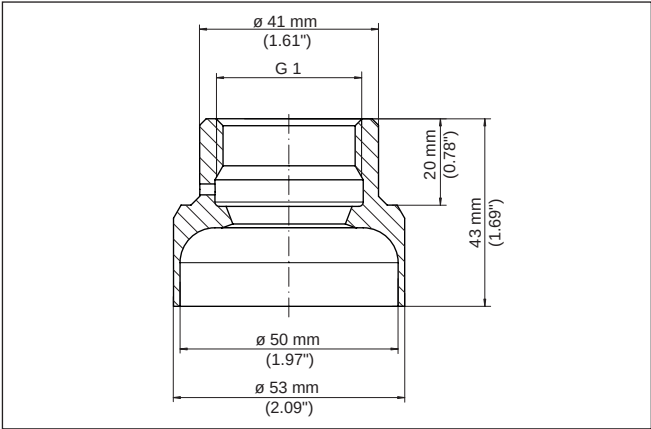


Fig. 34: Dimensions direct welded socket for pipe mounting G1 - Cone sealing

Thread G1 for pipe  
mounting - O-ring sealing

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G1              |
|               | Standard              | ISO 228-1       |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSPT.XAUXXX     |
| Seal          | Material              | EPDM            |
|               | Configuration         | O-ring seal     |
|               | Size                  | 21.82 x 3.53 mm |

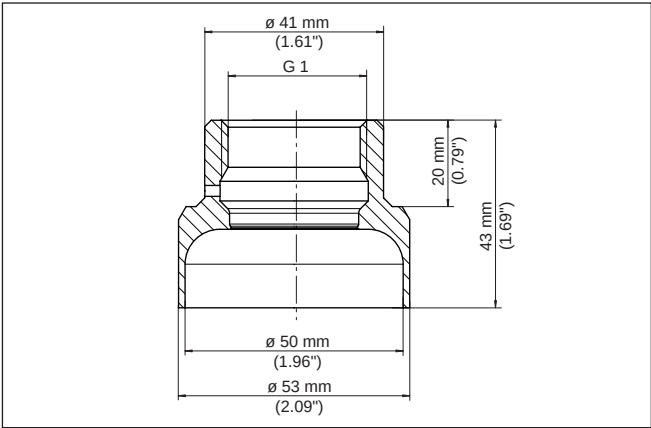


Fig. 35: Dimensions direct welded socket for pipe mounting G1 - O-ring sealing

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4.3 Hygienic fittings

Clamp 1"

| Part          | Feature               | Characteristic      |
|---------------|-----------------------|---------------------|
| Welded socket | Size                  | G1                  |
|               | Standard              | DIN 32676, ISO 2852 |
|               | Material              | 316L                |
|               | Product code/Art. no. | WSPT.XANXXX         |
| Seal          | Material              | FKM, EPDM           |
|               | Configuration         | Clamp seal          |

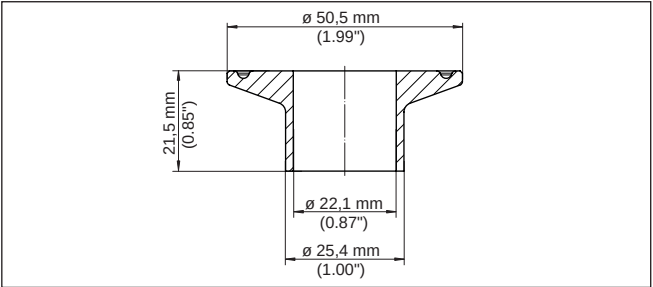


Fig. 36: Dimensions of welded socket, Clamp 1" (DIN 32676, ISO 2852)

## 5 Welded socket - VEGABAR series 10, 20, 30

### 5.1 Thread

#### Thread G $\frac{1}{2}$ - manometer connection

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G $\frac{1}{2}$ |
|               | Standard              | EN 837          |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSBR.XDUXXX     |
| Seal          | Material              | Klingsil C-4400 |
|               | Configuration         | Flat seal       |
|               | Size                  | 21 x 30 x 2 mm  |
| Welding dummy | Material              | Brass           |

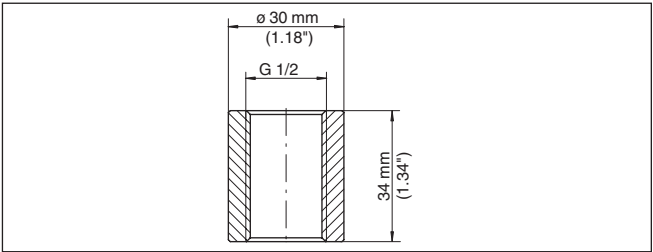


Fig. 37: Dimensions of welded socket, thread G $\frac{1}{2}$  (EN 837) - manometer connection

#### Thread G $\frac{3}{4}$

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G $\frac{3}{4}$ |
|               | Standard              | DIN 3852-E      |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSBR.XN9XXX     |
| Seal          | Material              | FKM, EPDM, FFKM |
|               | Configuration         | Seal ring       |
|               | Size                  | 23.47 x 2.62 mm |
| Welding dummy | Material              | Brass           |

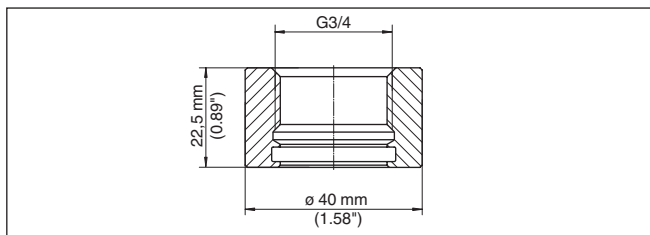


Fig. 38: Dimensions of welded socket, G $\frac{3}{4}$  (DIN 3852-X)

## Thread G1

| Part          | Feature               | Characteristic             |
|---------------|-----------------------|----------------------------|
| Welded socket | Size                  | G1                         |
|               | Standard              | ISO 228-1                  |
|               | Material              | 316L                       |
|               | Product code/Art. no. | WSBR.XC5XAX                |
| Seal          | Material              | FKM, EPDM                  |
|               | Configuration         | Seal ring acc. to DIN 3869 |
|               | Size                  | 29.7 x 35.7 x 2 mm         |
| Welding dummy | Material              | Brass                      |

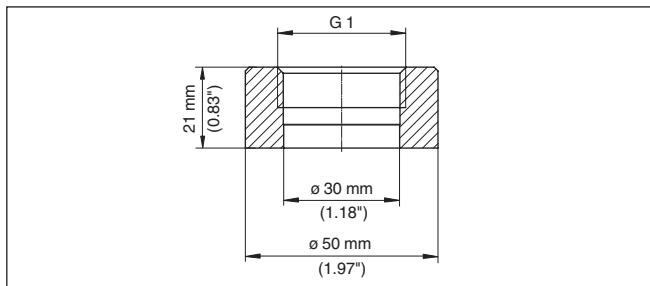


Fig. 39: Dimensions of welded socket, G1 (ISO 228-1)

## Thread G1½

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G1½             |
|               | Standard              | DIN 3852-A      |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSBR.XDAX4X     |
| Seal          | Material              | Klingsil C-4400 |
|               | Configuration         | Flat seal       |
|               | Size                  | 48 x 55 x 2 mm  |

| Part          | Feature  | Characteristic |
|---------------|----------|----------------|
| Welding dummy | Material | Brass          |

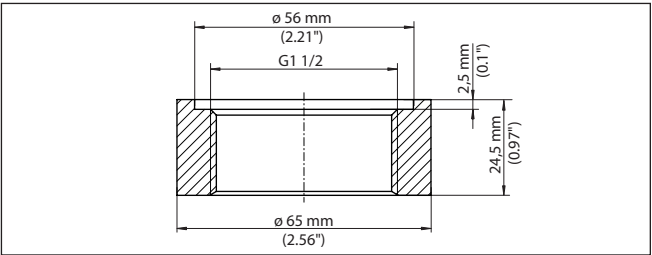


Fig. 40: Dimensions of welded socket, thread G1½ (DIN 3852-A)

**M30 x 1.5**

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | M30 x 1.5       |
|               | Standard              | DIN 13          |
|               | Material              | 316L            |
|               | Product code/Art. no. | WSBR.XALXXX     |
| Seal          | Material              | FKM, EPDM, FFKM |
|               | Configuration         | Seal ring       |
|               | Size                  | 20.35 x 1.78 mm |
| Welding dummy | Material              | Brass           |

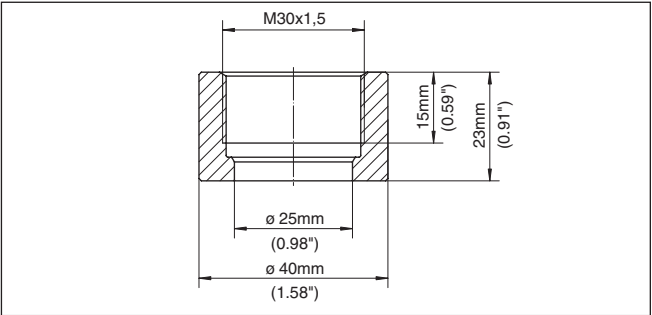


Fig. 41: Dimensions of welded socket, M30 x 1.5

## 6 Welded socket - VEGABAR series 80

### 6.1 Thread

**Thread G $\frac{1}{2}$  - manometer connection**

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G $\frac{1}{2}$ |
|               | Standard              | EN 837          |
|               | Material              | 316L            |
|               | Product code/Art. no. | WDSB80.DUXXXX   |
| Seal          | Material              | Klingsil C-4400 |
|               | Configuration         | Flat seal       |
|               | Size                  | 21 x 30 x 2 mm  |
| Welding dummy | Material              | Brass           |
| Blind plug    | Material              | 316L            |

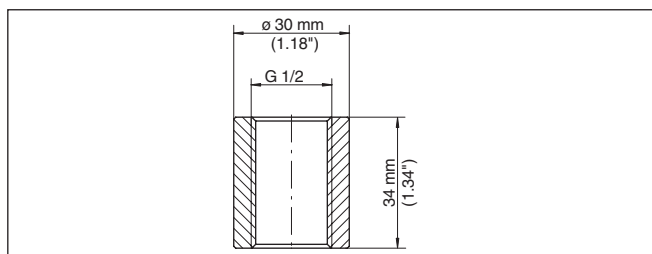


Fig. 42: Dimensions of welded socket, thread G $\frac{1}{2}$  (EN 837) - manometer connection - VEGABAR 81, 82, 83

**Thread G $\frac{1}{2}$  - front-flush**

| Part          | Feature               | Characteristic             |
|---------------|-----------------------|----------------------------|
| Welded socket | Size                  | G $\frac{1}{2}$            |
|               | Standard              | ISO 228-1                  |
|               | Material              | 316L                       |
|               | Product code/Art. no. | WDSB80.C3XXXX              |
| Seal          | Material              | FKM                        |
|               | Configuration         | Seal ring acc. to DIN 3869 |
|               | Size                  | 18.5 x 23.9 x 1.5 mm       |
| Welding dummy | Material              | Brass                      |
| Blind plug    | Material              | 316L                       |

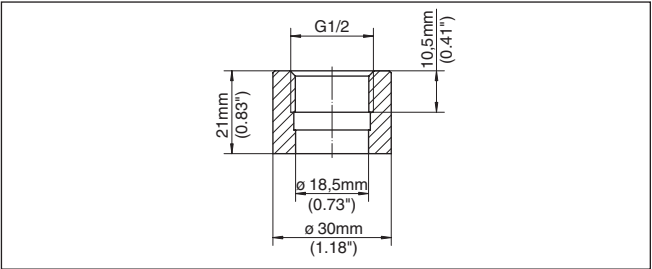


Fig. 43: Dimensions welded socket G $\frac{1}{2}$  (ISO 228-1), front-flush - VEGABAR 82

Thread G $\frac{3}{4}$

| Part          | Feature               | Characteristic                     |
|---------------|-----------------------|------------------------------------|
| Welded socket | Size                  | G $\frac{3}{4}$                    |
|               | Standard              | DIN 3852-E                         |
|               | Material              | 316L                               |
|               | Product code/Art. no. | WDSB80.N9XXXX                      |
| Seal          | Material              | FKM, EPDM, FFKM, Klingersil C-4400 |
|               | Configuration         | Seal ring acc. to DIN 3869         |
|               | Size                  | 23.47 x 2.62 mm                    |
| Welding dummy | Material              | Brass                              |
| Blind plug    | Material              | 316L                               |

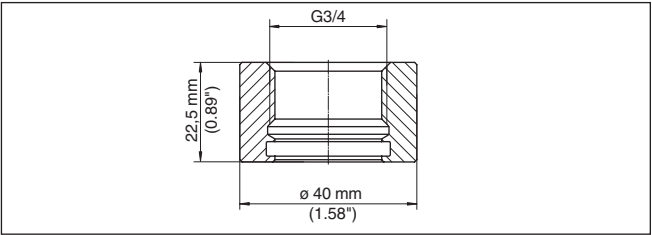


Fig. 44: Dimensions of welded socket, G $\frac{3}{4}$  (DIN 3852-X) - VEGABAR 82

Thread G1

| Part          | Feature               | Characteristic    |
|---------------|-----------------------|-------------------|
| Welded socket | Size                  | G1                |
|               | Standard              | ISO 228-1         |
|               | Material              | 316L              |
|               | Product code/Art. no. | WDSB80.C5XXXX     |
| Seal          | Material              | Klingersil C-4400 |
|               | Configuration         | Flat seal         |
|               | Size                  | 33 x 39 x 2 mm    |

| Part          | Feature  | Characteristic |
|---------------|----------|----------------|
| Welding dummy | Material | Brass          |
| Blind plug    | Material | 316L           |

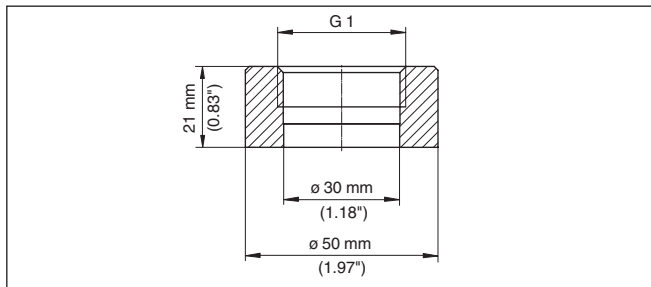


Fig. 45: Dimensions of welded socket, G1 (ISO 228-1) - VEGABAR 82, 83

### Thread G1½

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G1½             |
|               | Standard              | DIN 3852-A      |
|               | Material              | 316L            |
|               | Product code/Art. no. | WDSB80.DAXXXX   |
| Seal          | Material              | Klingsil C-4400 |
|               | Configuration         | Flat seal       |
|               | Size                  | 48 x 55 x 2 mm  |
| Welding dummy | Material              | Brass           |
| Blind plug    | Material              | 316L            |

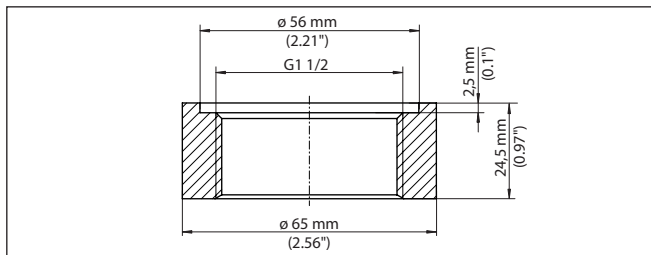


Fig. 46: Dimensions of welded socket, thread G1½ (EN 837) - VEGABAR 82, 83, 86, 87

6.2 Extension fitting - Paper industry

M30 x 1.5

| Part          | Feature               | Characteristic                                                        |
|---------------|-----------------------|-----------------------------------------------------------------------|
| Welded socket | Size                  | M30 x 1.5                                                             |
|               | Standard              | DIN 13                                                                |
|               | Material              | 316L                                                                  |
|               | Product code/Art. no. | WDSB80.ALXXXX (completely front-flush)<br>WDSB80.APXXXX (for headbox) |
| Seal          | Material              | FKM, EPDM, FFKM                                                       |
|               | Configuration         | Seal ring                                                             |
|               | Size                  | 20.35 x 1.78 mm                                                       |
| Welding dummy | Material              | Brass                                                                 |
| Blind plug    | Material              | 316L                                                                  |

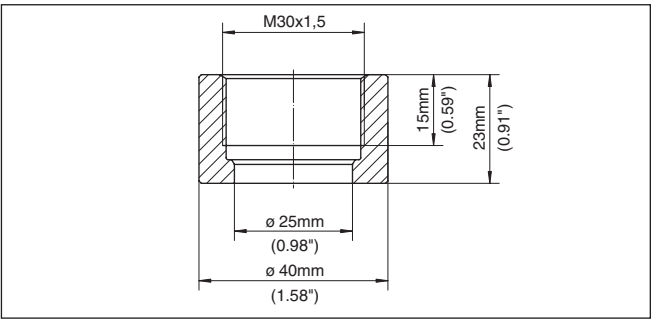


Fig. 47: Dimensions of welded socket, M30 x 1.5 - VEGABAR 82

M44 x 1.25

| Part          | Feature                   | Characteristic  |
|---------------|---------------------------|-----------------|
| Welded socket | Size                      | M44 x 1.25      |
|               | Standard                  | DIN 13          |
|               | Material, process fitting | 316L, Alloy C22 |
|               | Material, pressure screw  | Aluminium, 316L |
|               | Product code/Art. no.     | WDSB80.AFXXXX   |
| Seal          | Material                  | FKM, EPDM, FFKM |
|               | Configuration             | Seal ring       |
|               | Size                      | 40 x 2 mm       |
| Welding dummy | Material                  | Brass           |
| Blind plug    | Material                  | 316L            |



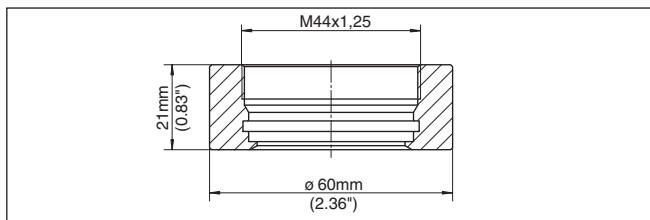


Fig. 48: Dimensions of welded socket, M44 x 1.25 - VEGABAR 82, 83

**G1 suitable for PASVE**

**Data - Version with metallic seal:**

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | ISO 228-1      |
|               | Material              | 316L           |
|               | Product code/Art. no. | WDSB80.XXXXXX  |
| Welding dummy | Material              | Brass          |
| Blind plug    | Material              | 316L           |

**Additional data - Version with O-ring seal:**

| Part | Feature       | Characteristic  |
|------|---------------|-----------------|
| Seal | Material      | FKM, EPDM, FFKM |
|      | Configuration | Seal ring       |
|      | Size          | 18.77 x 1.78 mm |

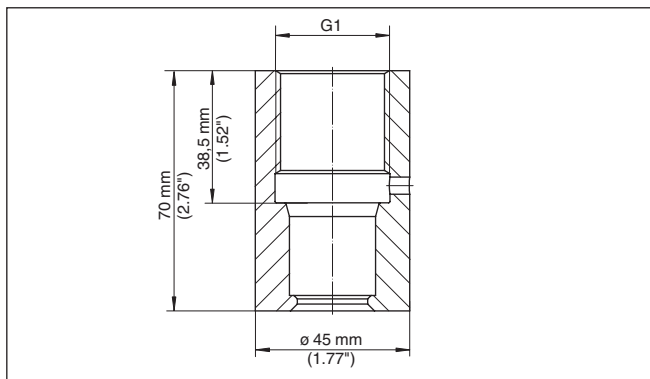


Fig. 49: Dimensions welded socket G1 suitable for PASVE (for the two previously listed versions) - VEGABAR 82

PMC 1"

| Part          | Feature               | Characteristic        |
|---------------|-----------------------|-----------------------|
| Welded socket | Size                  | 1"                    |
|               | Standard              | -                     |
|               | Material              | 316L                  |
|               | Product code/Art. no. | WDSB80.EMW1XX         |
| Seal          | Material              | FKM, EPDM, FFKM, PTFE |
|               | Size                  | ø 20.22 x 3.53 mm     |
| Welding dummy | Material              | Brass                 |

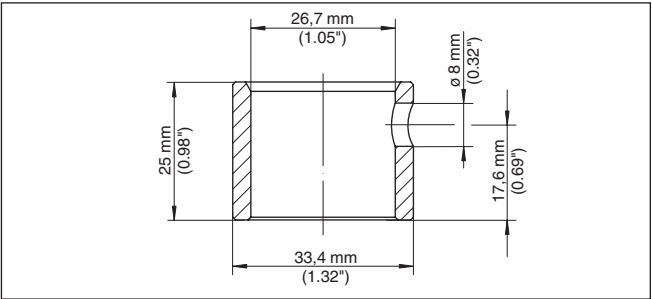


Fig. 50: Dimensions of welded socket, PMC 1" VEGABAR 82

## 7 Welded socket - VEGASWING, VEGAVIB, VEGAKON 60 series

### 7.1 VEGASWING 61, 63

Thread G $\frac{3}{4}$

| Part          | Feature               | Characteristic  |
|---------------|-----------------------|-----------------|
| Welded socket | Size                  | G $\frac{3}{4}$ |
|               | Standard              | DIN 3852-X      |
|               | Pressure stage        | PN 60           |
|               | Material              | 316L            |
|               | Product code/Art. no. | ESTSG.1GBXX     |
| Seal          | Material              | FKM, EPDM, FFKM |
|               | Configuration         | O-ring          |
|               | Size                  | 21 x 3 mm       |

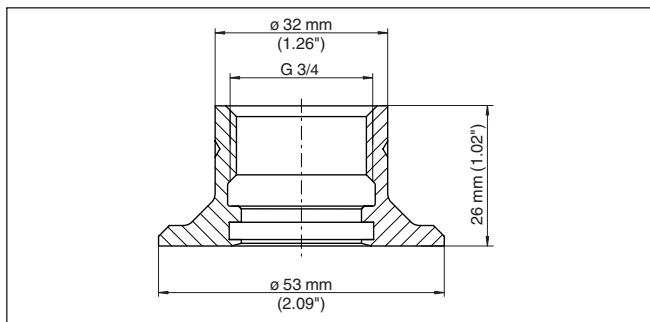


Fig. 51: Dimensions of welded socket, G $\frac{3}{4}$  (DIN 3852-X)

Thread G1

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1             |
|               | Standard              | DIN 3852-X     |
|               | Pressure stage        | PN 60          |
|               | Material              | 316L           |
|               | Product code/Art. no. | ESTSG.1GAXX    |
| Seal          | Material              | FKM, EPDM      |
|               | Configuration         | O-ring         |
|               | Size                  | 21 x 3 mm      |

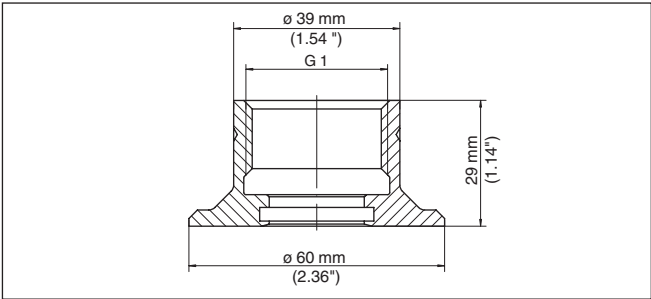


Fig. 52: Dimensions of welded socket, G1 (DIN 3852-X)

## 7.2 VEGAIB 61, 63

### Thread G1

| Part          | Feature               | Characteristic                |
|---------------|-----------------------|-------------------------------|
| Welded socket | Size                  | G1                            |
|               | Standard              | DIN 3852-A                    |
|               | Pressure stage        | PN 16                         |
|               | Material              | 316L                          |
|               | Product code/Art. no. | ESTVB.GCRXX                   |
| Seal          | Material              | EPDM 70 Shore A, FDA approved |
|               | Configuration         | O-ring                        |
|               | Size                  | 28 x 3.5 mm                   |

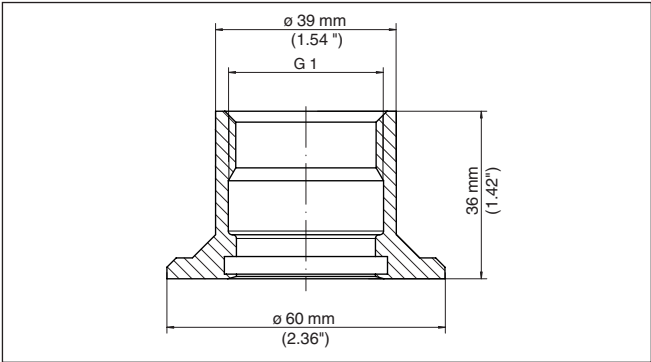


Fig. 53: Dimensions of welded socket, G1 (DIN 3852-A)

## Thread G1½

| Part          | Feature               | Characteristic                |
|---------------|-----------------------|-------------------------------|
| Welded socket | Size                  | G1½                           |
|               | Standard              | DIN 3852-A                    |
|               | Pressure stage        | PN 16                         |
|               | Material              | 316L                          |
|               | Product code/Art. no. | ESTVB.GDUXX                   |
| Seal          | Material              | EPDM 70 Shore A, FDA approved |
|               | Configuration         | O-ring                        |
|               | Size                  | 28 x 3.5 mm                   |

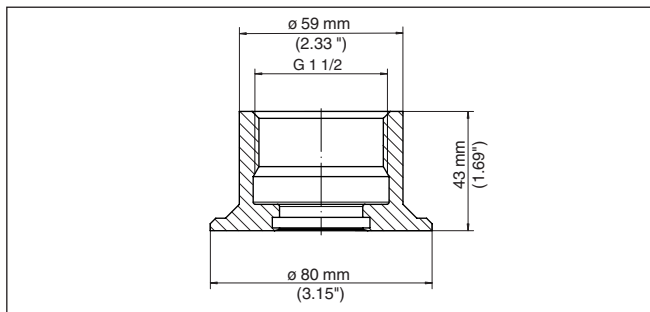


Fig. 54: Dimensions of welded socket, G1½ (DIN 3852-A)

## 7.3 VEGAKON 61

### Thread G1

| Feature               | Characteristic                    |
|-----------------------|-----------------------------------|
| Size                  | G1                                |
| Standard              | DIN 3852-X                        |
| Pressure stage        | PN 25                             |
| Material              | 316Ti                             |
| Product code/Art. no. | ESTKN.1GA                         |
| Seal                  | Klingsil C-4400<br>33 x 39 x 2 mm |

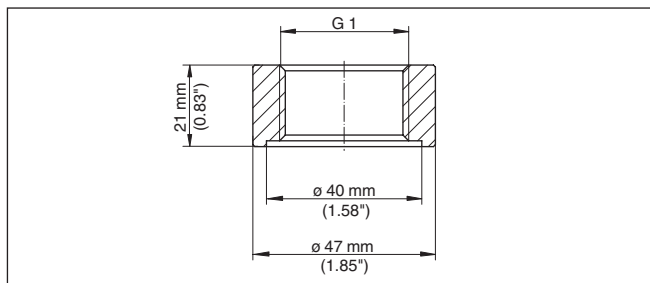


Fig. 55: Dimensions of welded socket, G1 (DIN 3852-X)

### Thread G1 - suitable for foodstuffs

| Feature               | Characteristic                               |
|-----------------------|----------------------------------------------|
| Size                  | G1                                           |
| Standard              | DIN 3852-X                                   |
| Pressure stage        | PN 25                                        |
| Material              | 316Ti                                        |
| Product code/Art. no. | ESTKN.1GL                                    |
| Seal                  | EPDM 70 Shore A, FDA approved<br>28 x 3.5 mm |

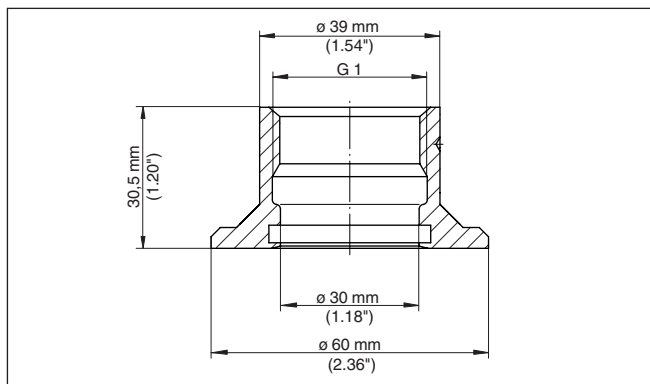


Fig. 56: Dimensions of welded socket, G1 (DIN 3852-X) - suitable for foodstuffs

## 8 Threaded adapter - VEGAPULS 10, 20, 30 series

### 8.1 Plastic adapter

Thread G1½ - Thread G2

| Part    | Feature               | Characteristic                   |
|---------|-----------------------|----------------------------------|
| Adapter | Size, sensor side     | G1½                              |
|         | Size, process side    | G2                               |
|         | Standard              | DIN 3852-X                       |
|         | Material              | PP                               |
|         | Pressure stage        | unpressurized 0.2 bar            |
|         | Process temperature   | -40 ... +80 °C (-40 ... +176 °F) |
|         | Max. torque           | 5 Nm (3.688 lbf ft)              |
|         | Product code/Art. no. | GEWADA-G.G                       |
| Seal    | Material              | FKM                              |
|         | Configuration         | Flat seal                        |
|         | Size                  | ø 68 x 59 x 2.5 mm               |

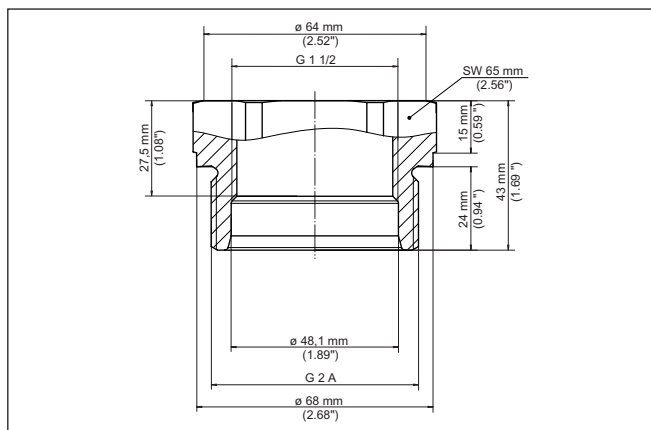


Fig. 57: Dimensions of threaded adapter G1½ (DIN 3852-X) on thread G2 (DIN 3852-X)

Thread 1½"NPT - Thread  
2"NPT

| Part    | Feature               | Characteristic                   |
|---------|-----------------------|----------------------------------|
| Adapter | Size, sensor side     | 1½"NPT                           |
|         | Size, process side    | 2"NPT                            |
|         | Material              | PP                               |
|         | Pressure stage        | unpressurized 0.2 bar            |
|         | Process temperature   | -40 ... +80 °C (-40 ... +176 °F) |
|         | Max. torque           | 5 Nm (3.688 lbf ft)              |
|         | Product code/Art. no. | GEWADA-G.N                       |

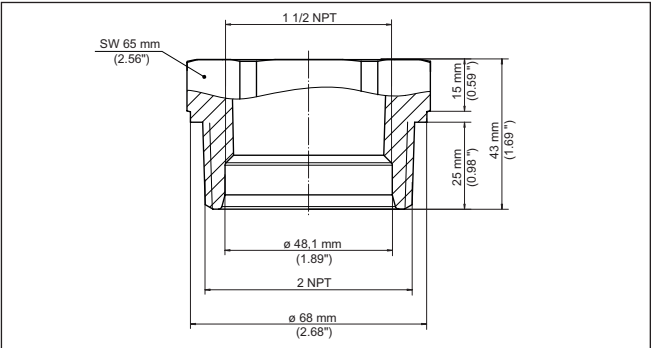


Fig. 58: Dimensions, threaded adapter 1½"NPT on thread 2"NPT



## 9 Threaded adapter - VEGAPULS 64

### 9.1 Plastic adapter

Thread G1½ - Thread  
G1½

| Part               | Feature               | Characteristic                    |
|--------------------|-----------------------|-----------------------------------|
| Adapter            | Size, sensor side     | G1½                               |
|                    | Size, process side    | G1½                               |
|                    | Standard              | DIN 3852-X                        |
|                    | Material              | PTFE                              |
|                    | Pressure stage        | unpressurized 0.2 bar             |
|                    | Process temperature   | -40 ... +130 °C (-40 ... +266 °F) |
|                    | Max. torque           | 5 Nm (3.688 lbf ft)               |
|                    | Product code/Art. no. | GEWADA-F.TC4T1                    |
| Seal, sensor side  | Material              | FKM                               |
|                    | Configuration         | O-ring seal                       |
|                    | Size                  | 48 x 2 mm                         |
| Seal, process side | Material              | FKM                               |
|                    | Configuration         | Flat seal                         |
|                    | Size                  | ø 58 x 47 x 2 mm                  |

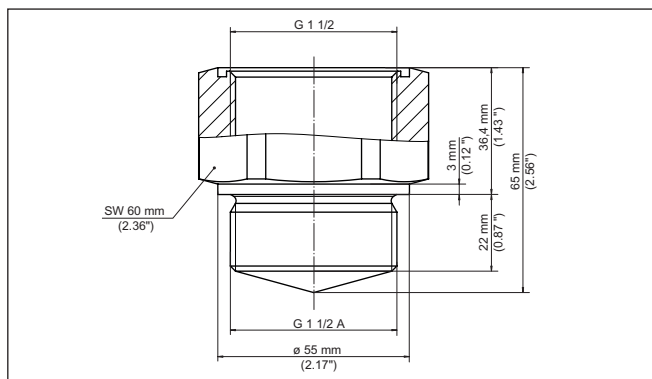


Fig. 59: Dimensions of threaded adapter G1½ (DIN 3852-X) on thread G1½, G2 (DIN 3852-X)

### Thread G1½ on thread G2

| Part               | Feature               | Characteristic                    |
|--------------------|-----------------------|-----------------------------------|
| Adapter            | Size, sensor side     | G1½                               |
|                    | Size, process side    | G2                                |
|                    | Standard              | DIN 3852-X                        |
|                    | Material              | PTFE                              |
|                    | Pressure stage        | unpressurized 0.2 bar             |
|                    | Process temperature   | -40 ... +130 °C (-40 ... +266 °F) |
|                    | Max. torque           | 5 Nm (3.688 lbf ft)               |
|                    | Product code/Art. no. | GEWADA-F.TC4T3                    |
| Seal, sensor side  | Material              | FKM                               |
|                    | Configuration         | O-ring seal                       |
|                    | Size                  | 48 x 2 mm                         |
| Seal, process side | Material              | FKM                               |
|                    | Configuration         | Flat seal                         |
|                    | Size                  | ø 68 x 59 x 2.5 mm                |

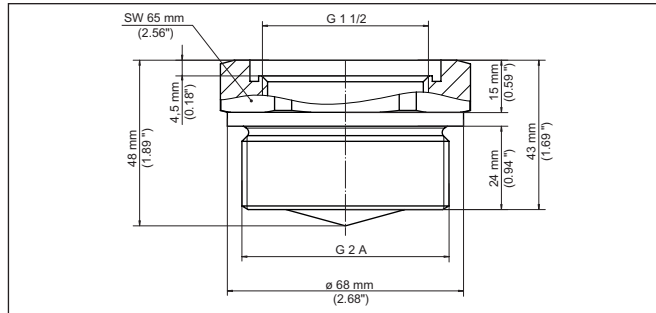


Fig. 60: Dimensions of threaded adapter G1½ (DIN 3852-X) on thread G2 (DIN 3852-X)

### G1½ - Flange DN 40 - Form B1

## 9.2 Flanges according to EN 1092-1

| Part    | Feature               | Characteristic     |
|---------|-----------------------|--------------------|
| Adapter | Size, sensor side     | G1½                |
|         | Standard              | DIN 3852-X         |
|         | Size, process side    | DN 40              |
|         | Standard              | EN 1092-1, Form B1 |
|         | Pressure stage        | PN 40              |
|         | Material              | 316L               |
|         | Product code/Art. no. | GEWADA-F.TC1AC     |

| Part | Feature       | Characteristic  |
|------|---------------|-----------------|
| Seal | Material      | FKM, EPDM, FFKM |
|      | Configuration | Seal ring       |
|      | Size          | 42 x 3 mm       |

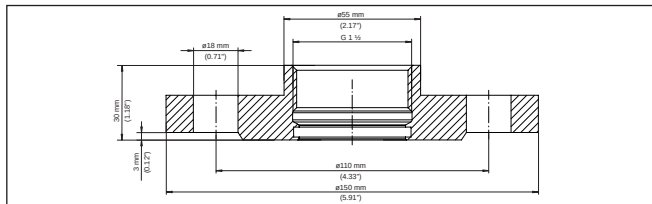


Fig. 61: Dimensions of threaded adapter G1½ (DIN 3852-X) on flange DN 40 (EN 1092-1, Form B1) PN 40

### 9.3 Flanges according to ASME B16.5

Thread G1½ on flange  
1½" - RF

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G1½             |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | 1½"             |
|         | Standard              | ASME B16.5, RF  |
|         | Pressure stage        | 150 lb          |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-F.TC1AH  |
| Seal    | Material              | FKM, EPDM, FFKM |
|         | Configuration         | Seal ring       |
|         | Size                  | 42 x 3 mm       |

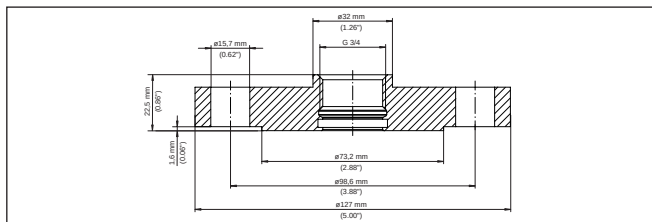


Fig. 62: Dimensions of threaded adapter G1½ (DIN 3852-X) on flange 1½" (ASME B16.5, RF) 150 lb

# 10 Threaded adapter - VEGAPULS 64, VEGAFLEX 80 series

## 10.1 Clamp according to DIN 32676, ISO 2852

G<sup>3</sup>/<sub>4</sub> - Clamp 1½"

| Part    | Feature               | Characteristic                |
|---------|-----------------------|-------------------------------|
| Adapter | Size, sensor side     | G <sup>3</sup> / <sub>4</sub> |
|         | Standard              | DIN 3852-X                    |
|         | Size, process side    | Clamp 1½"                     |
|         | Standard              | DIN 32676, ISO 2852           |
|         | Pressure stage        | PN 16                         |
|         | Material              | 316L                          |
|         | Product code/Art. no. | GEWADA-A.CG3                  |
| Seal    | Material              | FKM, EPDM, FFKM               |
|         | Configuration         | O-ring seal                   |
|         | Size                  | 23.47 x 2.62 mm               |

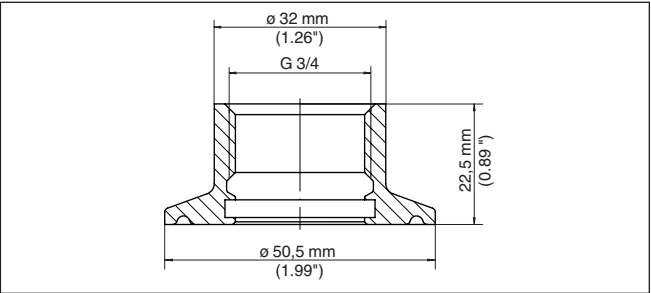


Fig. 63: Dimensions of threaded adapter G<sup>3</sup>/<sub>4</sub> (DIN 3852-X) on Clamp 1½" (DIN 32676, ISO 2852) PN 16

G<sup>3</sup>/<sub>4</sub> - Clamp 2"

Data:

| Part    | Feature               | Characteristic                |
|---------|-----------------------|-------------------------------|
| Adapter | Size, sensor side     | G <sup>3</sup> / <sub>4</sub> |
|         | Standard              | DIN 3852-X                    |
|         | Size, process side    | Clamp 2"                      |
|         | Standard              | DIN 32676, ISO 2852           |
|         | Pressure stage        | PN 16                         |
|         | Material              | 316L                          |
|         | Product code/Art. no. | GEWADA-A.CA3                  |
| Seal    | Material              | FKM, EPDM, FFKM               |
|         | Configuration         | O-ring seal                   |
|         | Size                  | 23.47 x 2.62 mm               |

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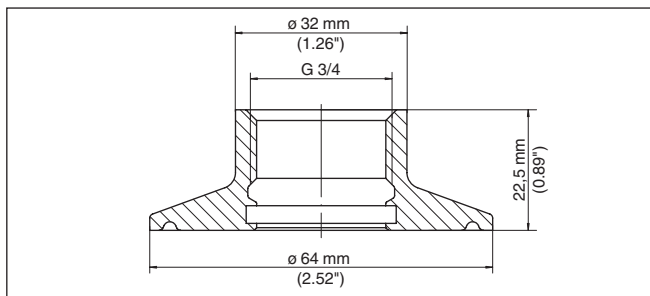


Fig. 64: Dimensions of threaded adapter G $\frac{3}{4}$  (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 16

## G1½ - Clamp 2"

### Data:

| Part    | Feature               | Characteristic           |
|---------|-----------------------|--------------------------|
| Adapter | Size, sensor side     | G1½                      |
|         | Standard              | DIN 3852-X               |
|         | Size, process side    | Clamp 2"                 |
|         | Standard              | DIN 32676, ISO 2852      |
|         | Pressure stage        | PN 16                    |
|         | Material              | 316L                     |
|         | Product code/Art. no. | GEWADA-B.CA3             |
| Seal    | Material              | FKM Vi 780 FDA, EPDM FDA |
|         | Configuration         | O-ring seal              |
|         | Size                  | 42 x 3 mm                |

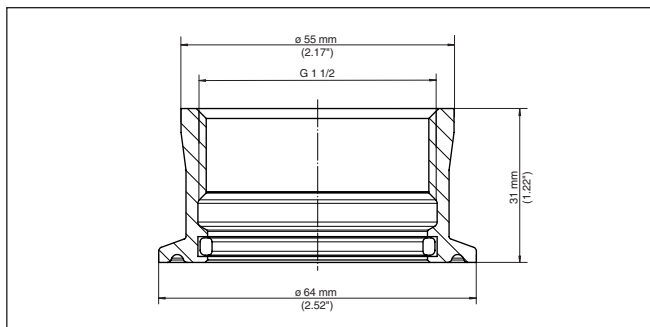


Fig. 65: Dimensions of threaded adapter G1½ (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 16

## 10.2 Slotted nut acc. to DIN 11851

### G $\frac{3}{4}$ - Slotted nut DN 40

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G $\frac{3}{4}$ |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | DN 40           |
|         | Standard              | DIN 11851       |
|         | Pressure stage        | PN 16           |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-A.RA3    |
| Seal    | Material              | FKM, EPDM, FFKM |
|         | Configuration         | O-ring seal     |
|         | Size                  | 23.47 x 2.62 mm |

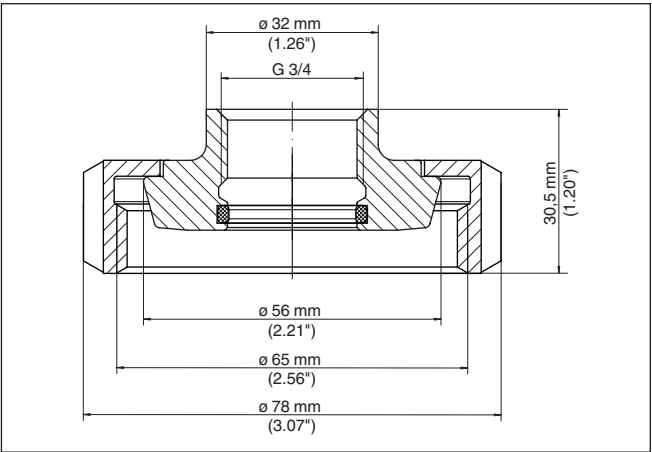


Fig. 66: Dimensions of threaded adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 40 (DIN 11851) PN 16

### G $\frac{3}{4}$ - Slotted nut DN 50

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G $\frac{3}{4}$ |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | DN 50           |
|         | Standard              | DIN 11851       |
|         | Pressure stage        | PN 16           |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-A.RB3    |

| Part | Feature       | Characteristic  |
|------|---------------|-----------------|
| Seal | Material      | FKM, EPDM, FFKM |
|      | Configuration | O-ring seal     |
|      | Size          | 23.47 x 2.62 mm |

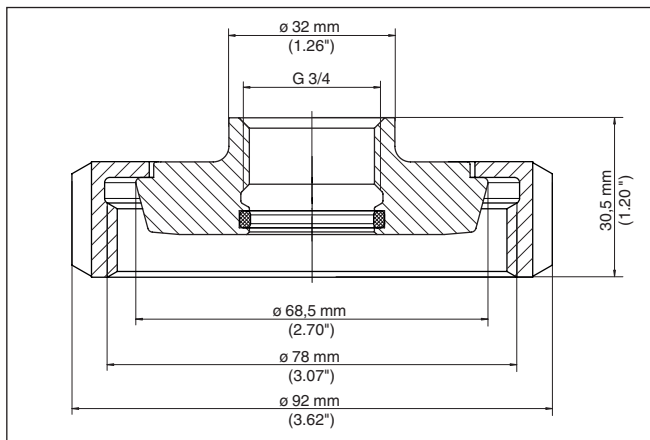


Fig. 67: Dimensions of threaded adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 16

## G1½ - Slotted nut DN 50

| Part    | Feature               | Characteristic           |
|---------|-----------------------|--------------------------|
| Adapter | Size, sensor side     | G1½                      |
|         | Standard              | DIN 3852-X               |
|         | Size, process side    | DN 40                    |
|         | Standard              | DIN 11851                |
|         | Pressure stage        | PN 16                    |
|         | Material              | 316L                     |
|         | Product code/Art. no. | GEWADA-B.RB3             |
| Seal    | Material              | FKM Vi 780 FDA, EPDM FDA |
|         | Configuration         | O-ring seal              |
|         | Size                  | 42 x 3 mm                |

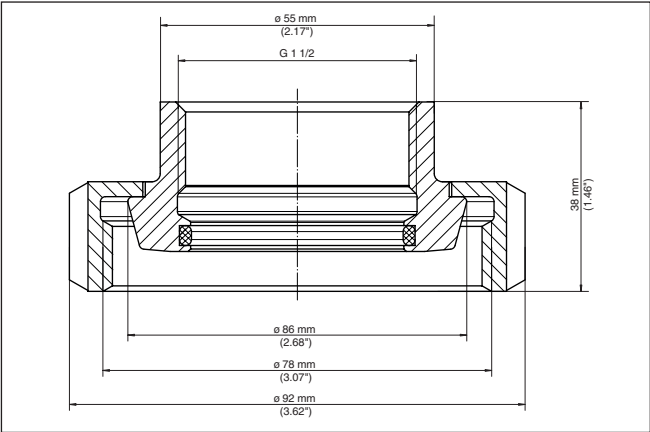


Fig. 68: Dimensions of threaded adapter G1½ (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 16

10.3 Slotted nut acc. to DIN 11864-1

G¾ - Slotted nut DN 40

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G¾              |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | DN 40           |
|         | Standard              | DIN 11864-1     |
|         | Pressure stage        | PN 16           |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-A.RE3    |
| Seal    | Material              | FKM, EPDM, FFKM |
|         | Configuration         | O-ring seal     |
|         | Size                  | 23.47 x 2.62 mm |



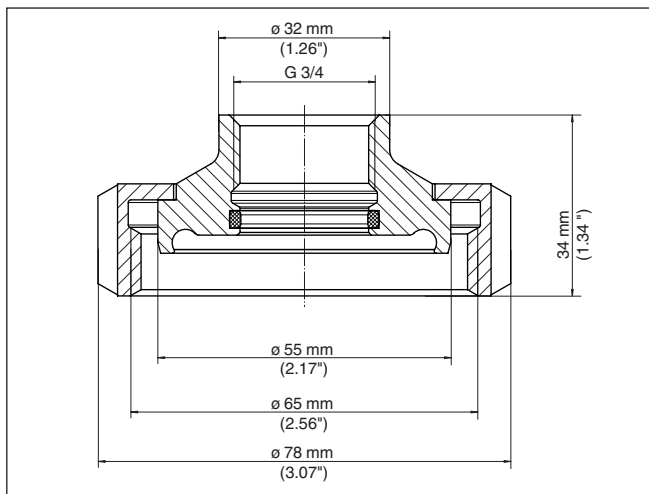


Fig. 69: Dimensions of threaded adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 40 (DIN 11864-1) PN 16

#### G $\frac{3}{4}$ - Slotted nut DN 50

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G $\frac{3}{4}$ |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | DN 40           |
|         | Standard              | DIN 11864-1     |
|         | Pressure stage        | PN 16           |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-A.RF3    |
| Seal    | Material              | FKM, EPDM, FFKM |
|         | Configuration         | O-ring seal     |
|         | Size                  | 23.47 x 2.62 mm |

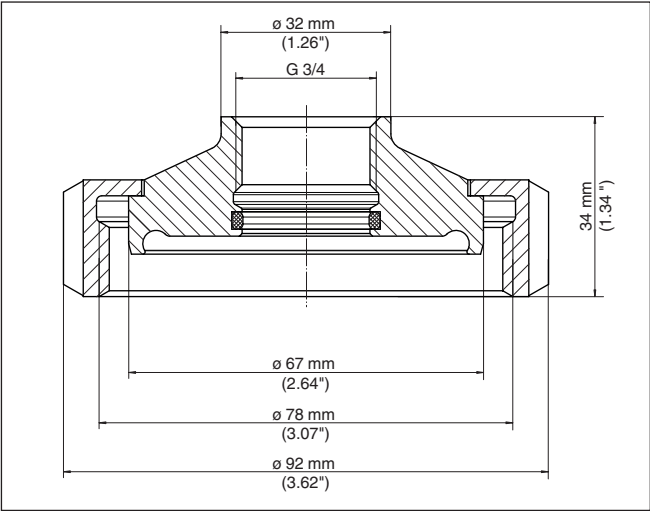


Fig. 70: Dimensions of threaded adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 50 (DIN 11864-1) PN 16

**G1½ - Slotted nut DN 50**

| Part    | Feature               | Characteristic           |
|---------|-----------------------|--------------------------|
| Adapter | Size, sensor side     | G1½                      |
|         | Standard              | DIN 3852-X               |
|         | Size, process side    | DN 40                    |
|         | Standard              | DIN 11864-1              |
|         | Pressure stage        | PN 16                    |
|         | Material              | 316L                     |
|         | Product code/Art. no. | GEWADA-B.RF3             |
| Seal    | Material              | FKM Vi 780 FDA, EPDM FDA |
|         | Configuration         | O-ring seal              |
|         | Size                  | 42 x 3 mm                |

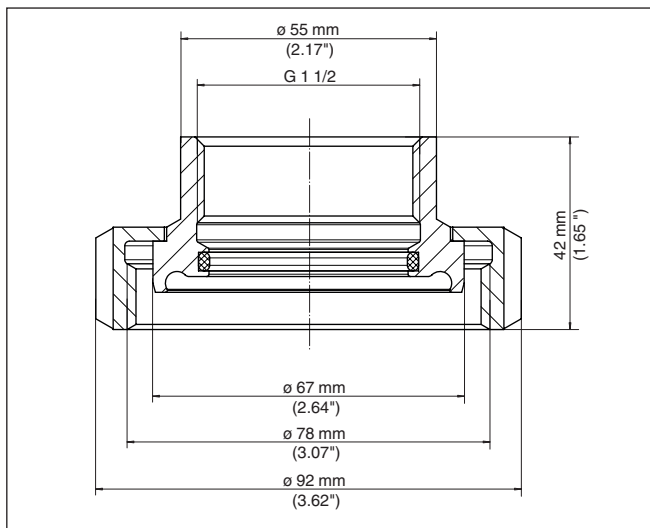


Fig. 71: Dimensions of threaded adapter G1½ (DIN 3852-X) on slotted nut DN 50 (DIN 11864-1) PN 16

## 10.4 Further hygienic fittings

### G¾ - DRD connection

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G¾              |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | -               |
|         | Standard              | DRD             |
|         | Pressure stage        | PN 16           |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-A.AA3    |
| Seal    | Material              | FKM, EPDM, FFKM |
|         | Configuration         | O-ring seal     |
|         | Size                  | 23.47 x 2.62 mm |

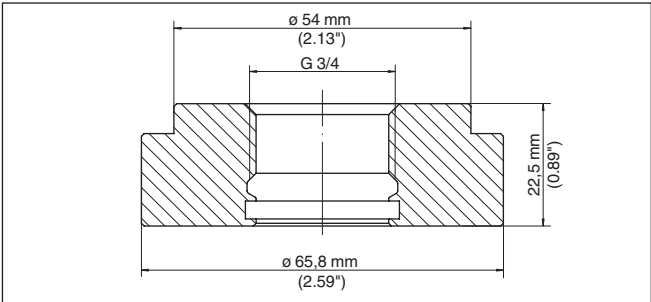


Fig. 72: Dimensions adapter G $\frac{3}{4}$  (DIN 3852-X) on DRD

**G $\frac{3}{4}$  - Varivent DN 32**

| Part    | Feature               | Characteristic  |
|---------|-----------------------|-----------------|
| Adapter | Size, sensor side     | G $\frac{3}{4}$ |
|         | Standard              | DIN 3852-X      |
|         | Size, process side    | DN 32           |
|         | Standard              | Tuchenhagen     |
|         | Pressure stage        | PN 16           |
|         | Material              | 316L            |
|         | Product code/Art. no. | GEWADA-A.TA3    |
| Seal    | Material              | EPDM            |
|         | Configuration         | O-ring seal     |
|         | Size                  | 23.47 x 2.62 mm |

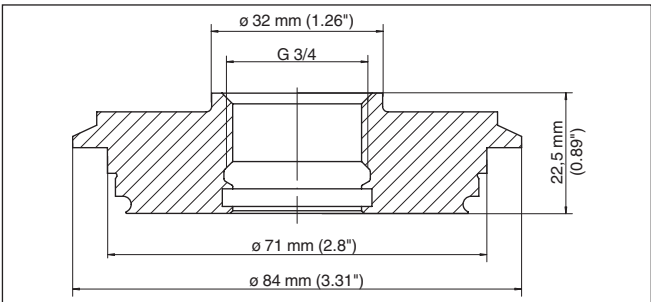


Fig. 73: Dimensions adapter G $\frac{3}{4}$  (DIN 3852-X) on Tuchenhagen DN 32

## 11 Threaded adapter - VEGABAR 80 series

### 11.1 Clamp according to DIN 32676, ISO 2852

#### G1 - Clamp 1½"

| Part    | Feature               | Characteristic      |
|---------|-----------------------|---------------------|
| Adapter | Size, sensor side     | G1                  |
|         | Standard              | DIN 3852-X          |
|         | Size, process side    | Clamp 1½"           |
|         | Standard              | DIN 32676, ISO 2852 |
|         | Pressure stage        | PN 16               |
|         | Material              | 316L                |
|         | Product code/Art. no. | GEWADA-D.GLX        |
| Seal    | Sensor side           | -                   |

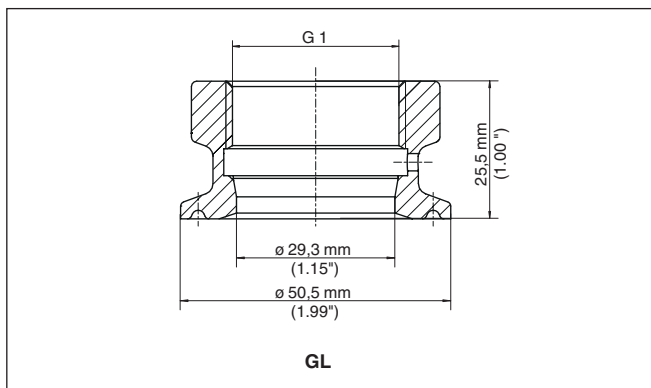


Fig. 74: Dimensions of threaded adapter G1 (DIN 3852-X) on Clamp 1½" (DIN 32676, ISO 2852) PN 16

#### G1 - Clamp 2"

| Part    | Feature               | Characteristic      |
|---------|-----------------------|---------------------|
| Adapter | Size, sensor side     | G1                  |
|         | Standard              | DIN 3852-X          |
|         | Size, process side    | Clamp 2"            |
|         | Standard              | DIN 32676, ISO 2852 |
|         | Pressure stage        | PN 16               |
|         | Material              | 316L                |
|         | Product code/Art. no. | GEWADA-D.GMX        |
| Seal    | Sensor side           | -                   |

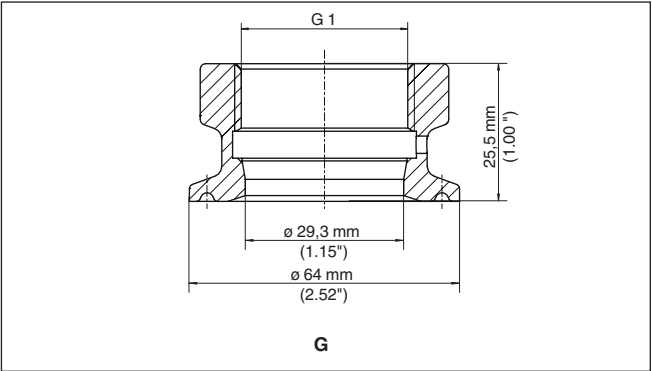


Fig. 75: Dimensions of threaded adapter G1 (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 16

11.2 Varivent

G1 - Varivent Form F 25

| Part    | Feature               | Characteristic |
|---------|-----------------------|----------------|
| Adapter | Size, sensor side     | G1             |
|         | Standard              | DIN 3852-X     |
|         | Size, process side    | DN 25/32       |
|         | Standard              | Varivent       |
|         | Pressure stage        | PN 16          |
|         | Material              | 316L           |
|         | Product code/Art. no. | GEWADA-D.GNX   |
| Seal    | Sensor side           | -              |

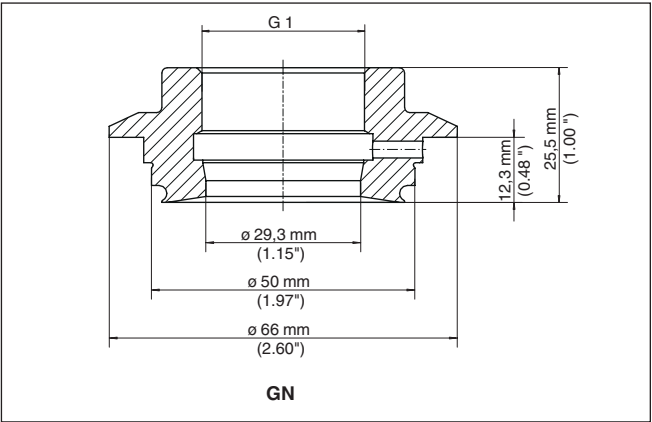


Fig. 76: Dimensions of threaded adapter G1 (DIN 3852-X) on Varivent Form F 25

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**G1 - Varivent Form N 50-40**

| Part    | Feature               | Characteristic |
|---------|-----------------------|----------------|
| Adapter | Size, sensor side     | G1             |
|         | Standard              | DIN 3852-X     |
|         | Size, process side    | DN 40/50       |
|         | Standard              | Varivent       |
|         | Pressure stage        | PN 16          |
|         | Material              | 316L           |
|         | Product code/Art. no. | GEWADA-D.GOX   |
| Seal    | Sensor side           | -              |

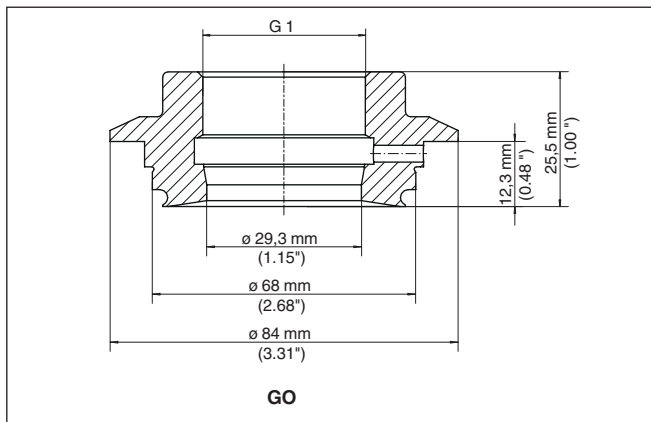


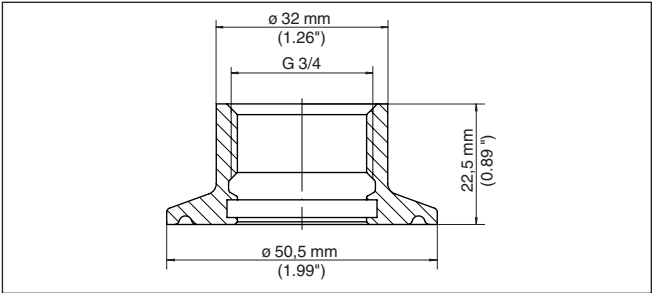
Fig. 77: Dimensions of threaded adapter G1 (DIN 3852-X) on Varivent Form N 50-40

# **12 Threaded adapter - VEGACAP, VEGACAL, VEGAWAVE 60 series**

## **12.1 VEGACAP 63, 64, VEGACAL 63, 64**

**G<sup>3</sup>/<sub>4</sub> - Clamp 1½"**

| Part    | Feature               | Characteristic                |
|---------|-----------------------|-------------------------------|
| Adapter | Size, sensor side     | G <sup>3</sup> / <sub>4</sub> |
|         | Standard              | DIN 3852-X                    |
|         | Size, process side    | Clamp 1½"                     |
|         | Standard              | DIN 32676, ISO 2852           |
|         | Pressure stage        | PN 16                         |
|         | Material              | 316L                          |
|         | Product code/Art. no. | GEWADA-E.GE3                  |
| Seal    | Material              | FKM Vi 780 FDA, EPDM          |
|         | Configuration         | Seal ring                     |
|         | Size                  | ø 50.5 - 35.3 mm              |



*Fig. 78: Dimensions of threaded adapter G<sup>3</sup>/<sub>4</sub> (DIN 3852-X) on Clamp 1½" (DIN 32676, ISO 2852) PN 16*

**G<sup>3</sup>/<sub>4</sub> - Clamp 2"**

| Part    | Feature               | Characteristic                |
|---------|-----------------------|-------------------------------|
| Adapter | Size, sensor side     | G <sup>3</sup> / <sub>4</sub> |
|         | Standard              | DIN 3852-X                    |
|         | Size, process side    | Clamp 2"                      |
|         | Standard              | DIN 32676, ISO 2852           |
|         | Pressure stage        | PN 16                         |
|         | Material              | 316L                          |
|         | Product code/Art. no. | GEWADA-E.CA3                  |
| Seal    | Material              | Material FKM Vi 780 FDA, EPDM |
|         | Configuration         | Seal ring                     |
|         | Size                  | ø 64 - 48 mm                  |

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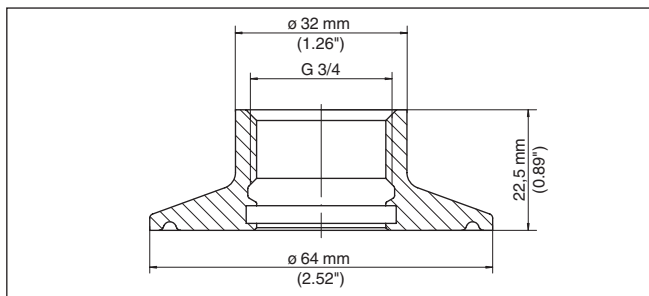


Fig. 79: Dimensions of threaded adapter G1½ (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 16

### G¾ - Slotted nut DN 25

| Part    | Feature               | Characteristic       |
|---------|-----------------------|----------------------|
| Adapter | Size, sensor side     | G¾                   |
|         | Standard              | DIN 3852-X           |
|         | Size, process side    | DN 25                |
|         | Standard              | DIN 11851            |
|         | Pressure stage        | PN 25                |
|         | Material              | 316L                 |
|         | Product code/Art. no. | GEWADA-E.CB3         |
| Seal    | Material              | FKM Vi 780 FDA, EPDM |
|         | Configuration         | Seal ring            |
|         | Size                  | ø 54 x 64 x 5 mm     |

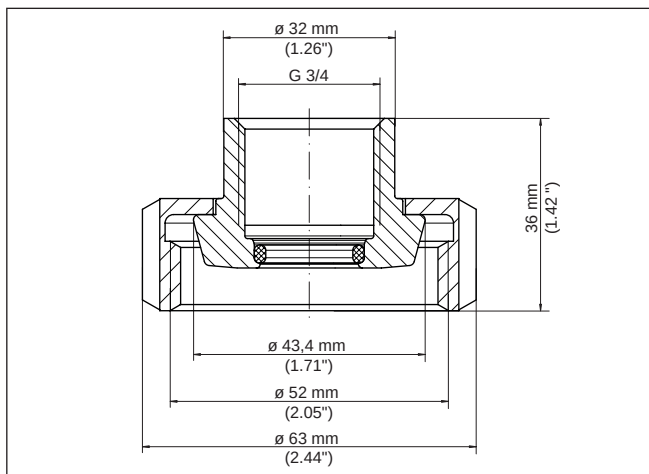


Fig. 80: Dimensions of threaded adapter G¾ (DIN 3852-X) on slotted nut DN 25 (DIN 11851) PN 25

**G¾ - Slotted nut DN 50**

| Part    | Feature               | Characteristic                                        |
|---------|-----------------------|-------------------------------------------------------|
| Adapter | Size, sensor side     | G¾                                                    |
|         | Standard              | DIN 3852-X                                            |
|         | Size, process side    | DN 50                                                 |
|         | Standard              | DIN 11851                                             |
|         | Pressure stage        | PN 25                                                 |
|         | Material              | 316L                                                  |
|         | Product code/Art. no. | GEWADA-E.CBX                                          |
| Seal    | Material              | -40 ... 150 °C/-40 ... 302 °F<br>FKM Vi 780 FDA, EPDM |
|         | Configuration         | Seal ring                                             |
|         | Size                  | ø 54 x 64 x 5 mm                                      |

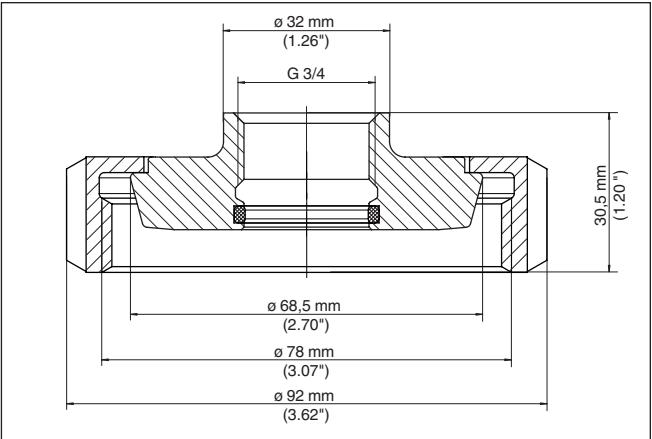


Fig. 81: Dimensions of threaded adapter G¾ (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 25

**G¾ - Hygienic connection with comp**

| Part    | Feature               | Characteristic   |
|---------|-----------------------|------------------|
| Adapter | Size, sensor side     | G¾               |
|         | Standard              | DIN 3852-X       |
|         | Size, process side    | DN 40            |
|         | Standard              | DIN 11851        |
|         | Pressure stage        | PN 16            |
|         | Material              | 316L             |
|         | Product code/Art. no. | GEWADA-E.LA3     |
| Seal    | Configuration         | Seal ring        |
|         | Size                  | ø 54 x 64 x 5 mm |

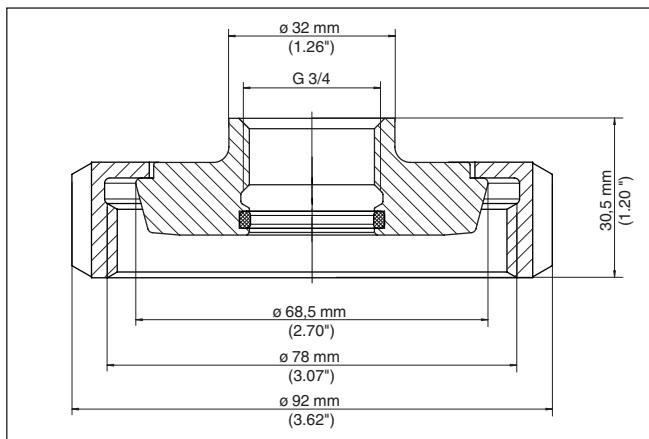


Fig. 82: Dimensions of threaded adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 16

## 12.2 VEGAWAVE

### G1½ - Clamp 2"

| Part    | Feature               | Characteristic      |
|---------|-----------------------|---------------------|
| Adapter | Size, sensor side     | G1½                 |
|         | Standard              | DIN 3852-X          |
|         | Size, process side    | Clamp 2"            |
|         | Standard              | DIN 32676, ISO 2852 |
|         | Pressure stage        | PN 16               |
|         | Material              | 316L                |
|         | Product code/Art. no. | GEWADA-C.CA1        |
| Seal    | Material              | FKM, EPDM           |
|         | Configuration         | Seal ring           |
|         | Size                  | ø 64 - 48 mm        |

**Dimensions:**

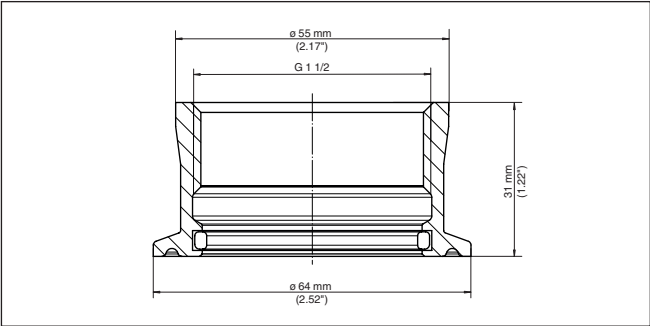


Fig. 83: Dimensions of threaded adapter G1½ (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 16

**G1½ - Clamp 2½"**

| Part    | Feature               | Characteristic      |
|---------|-----------------------|---------------------|
| Adapter | Size, sensor side     | G1½                 |
|         | Standard              | DIN 3852-X          |
|         | Size, process side    | Clamp 2½"           |
|         | Standard              | DIN 32676, ISO 2852 |
|         | Pressure stage        | PN 16               |
|         | Material              | 316L                |
|         | Product code/Art. no. | GEWADA-C.CD3        |
| Seal    | Material              | FKM FDA, EPDM FDA   |
|         | Configuration         | Seal ring           |
|         | Size                  | ø 77.5 - 60.7 mm    |

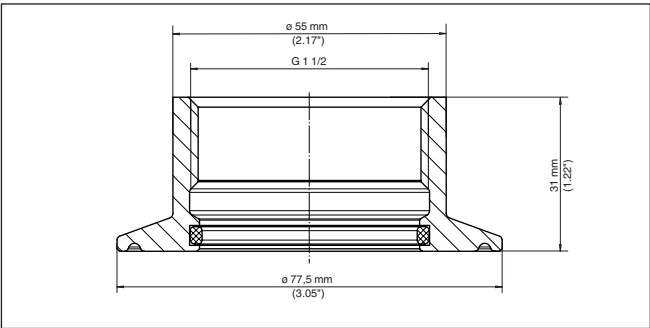


Fig. 84: Dimensions of threaded adapter G1½ (DIN 3852-X) on Clamp 2½" (DIN 32676, ISO 2852) PN 16

**G1½ - Slotted nut DN 50 -  
DIN 11851**

| Part    | Feature               | Characteristic           |
|---------|-----------------------|--------------------------|
| Adapter | Size, sensor side     | G1½                      |
|         | Standard              | DIN 3852-X               |
|         | Size, process side    | DN 40                    |
|         | Standard              | DIN 11851                |
|         | Pressure stage        | PN 16                    |
|         | Material              | 316L                     |
|         | Product code/Art. no. | GEWADA-B.RB3             |
| Seal    | Material              | FKM Vi 780 FDA, EPDM FDA |
|         | Configuration         | Seal ring                |
|         | Size                  | ø 54 x 64 x 5 mm         |

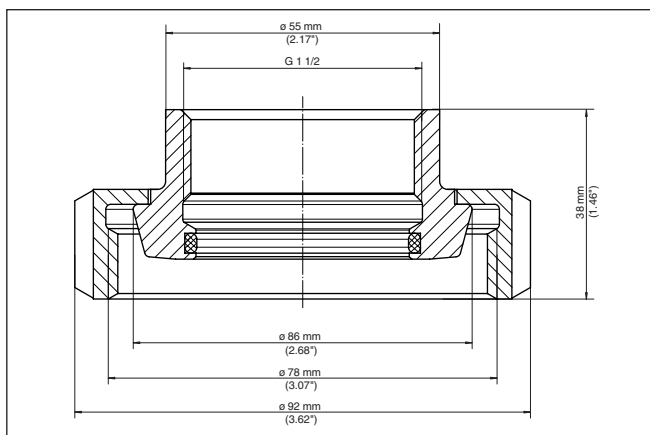


Fig. 85: Dimensions of threaded adapter G1½ (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 16

**G1½ - Slotted nut DN 50 -  
DIN 11864-1**

| Part    | Feature               | Characteristic           |
|---------|-----------------------|--------------------------|
| Adapter | Size, sensor side     | G1½                      |
|         | Standard              | DIN 3852-X               |
|         | Size, process side    | DN 40                    |
|         | Standard              | DIN 11864-1              |
|         | Pressure stage        | PN 16                    |
|         | Material              | 316L                     |
|         | Product code/Art. no. | GEWADA-B.RF3             |
| Seal    | Material              | FKM Vi 780 FDA, EPDM FDA |
|         | Configuration         | Seal ring                |
|         | Size                  | ø 54 x 64 x 5 mm         |

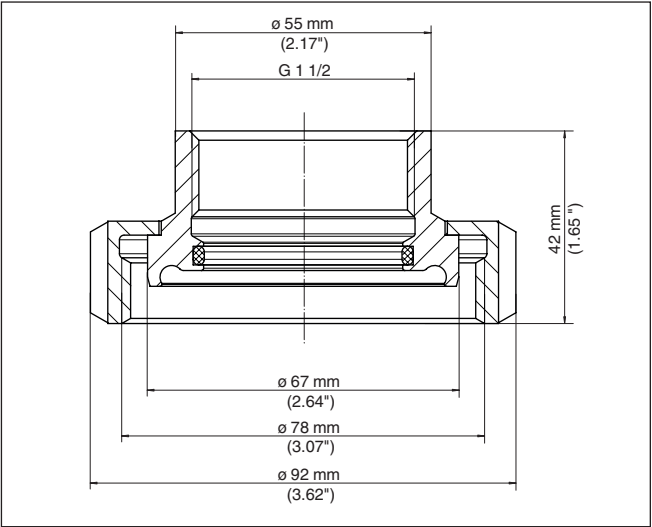


Fig. 86: Dimensions of threaded adapter G1½ (DIN 3852-X) on slotted nut DN 50 (DIN 11864-1) PN 16

## 13 Hygienic adapter - VEGABAR 20, 30 series, VEGAPOINT 10, 20 series

### 13.1 Technical data, sealing concept

#### Common technical data

|                  | Feature             | Characteristic        |
|------------------|---------------------|-----------------------|
| Hygienic adapter | Material            | 1.4435                |
|                  | Surface             | $Ra \leq 0.76 \mu m$  |
|                  | Hygiene certificate | FDA, EG 1935/2004     |
| Max. torque      | Cone seal           | 100 Nm (73.76 lbf ft) |
|                  | O-ring seal         | 50 Nm (36.88 lbf ft)  |

#### Sealing concept metal/metal

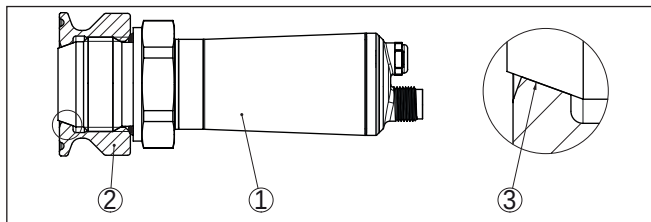


Fig. 87: Cone seal G1 VEGABAR metal/metal

- 1 Sensor
- 2 Hygienic adapter
- 3 Seal metal/metal

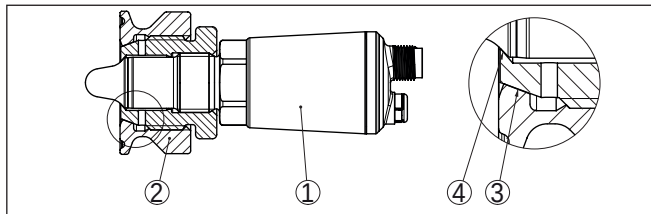


Fig. 88: Cone seal G1 VEGAPOINT plastic/metal plus metal/metal

- 1 Sensor
- 2 Hygienic adapter
- 3 Seal plastic/metal
- 4 Seal metal/metal

Sealing concept O-ring

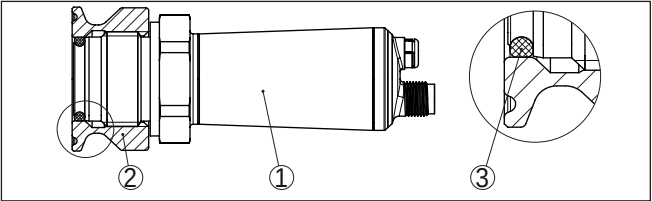


Fig. 89: O-ring seal G1 VEGABAR

- 1 Sensor
- 2 Hygienic adapter
- 3 O-ring seal

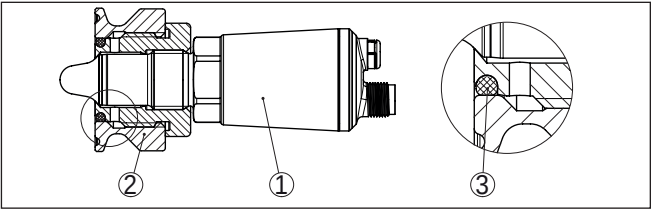


Fig. 90: O-ring seal G1 VEGAPOINT

- 1 Sensor
- 2 Hygienic adapter
- 3 O-ring seal

13.2 Direct welded socket

Thread G1 - Cone seal

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1 B           |
|               | Standard              | ISO 228-1      |
|               | Product code/Art. no. | HYGADAPT-C.X7F |

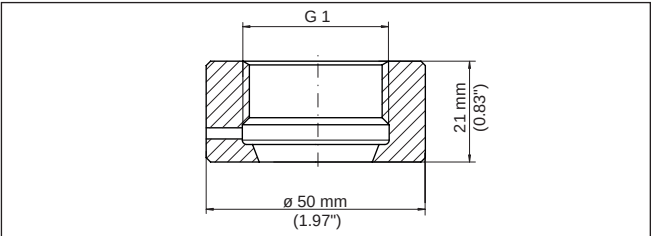


Fig. 91: Dimensions direct welded socket G1 - Cone seal



## Thread G1 for pipe mounting - Cone sealing

| Part          | Feature               | Characteristic |
|---------------|-----------------------|----------------|
| Welded socket | Size                  | G1 B           |
|               | Standard              | ISO 228-1      |
|               | Product code/Art. no. | HYGADAPT-C.X7G |

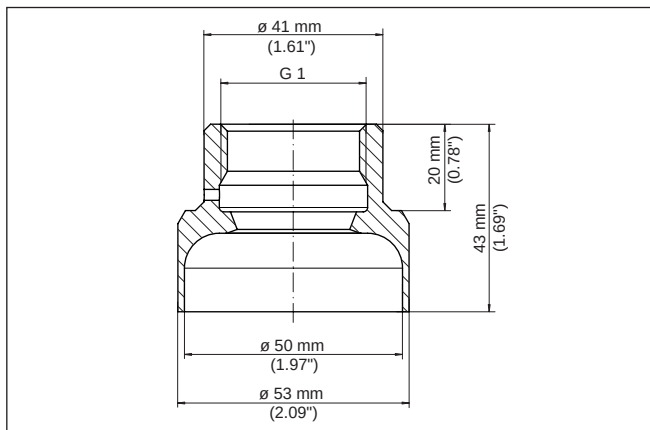


Fig. 92: Dimensions direct welded socket for pipe mounting G1 - Cone sealing

## 13.3 Clamp according to DIN 32676, ISO 2852

### G1 - Clamp 1½" - Cone seal

| Part             | Feature               | Characteristic      |
|------------------|-----------------------|---------------------|
| Hygienic adapter | Size, sensor side     | G1                  |
|                  | Standard              | DIN 3852-X          |
|                  | Size, process side    | Clamp 1½"           |
|                  | Standard              | DIN 32676, ISO 2852 |
|                  | Pressure stage        | PN 40               |
|                  | Product code/Art. no. | HYGADAPT-C.XAT      |

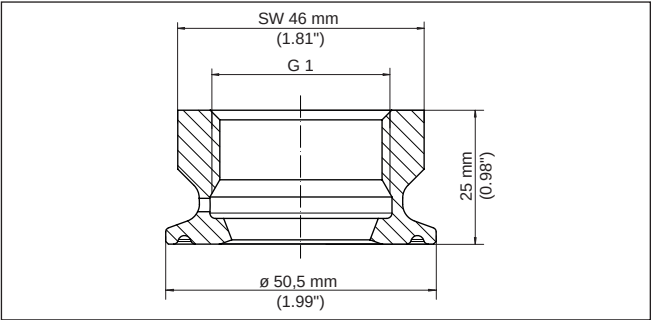


Fig. 93: Dimensions hygienic adapter G1 (DIN 3852-X) on Clamp 1½" (DIN 32676, ISO 2852) PN 40 - Cone seal

**G1 - Clamp 2" - Cone seal**

| Part             | Feature               | Characteristic      |
|------------------|-----------------------|---------------------|
| Hygienic adapter | Size, sensor side     | G1                  |
|                  | Standard              | DIN 3852-X          |
|                  | Size, process side    | Clamp 2"            |
|                  | Standard              | DIN 32676, ISO 2852 |
|                  | Pressure stage        | PN 40               |
|                  | Product code/Art. no. | HYGADAPT-C.XAR      |

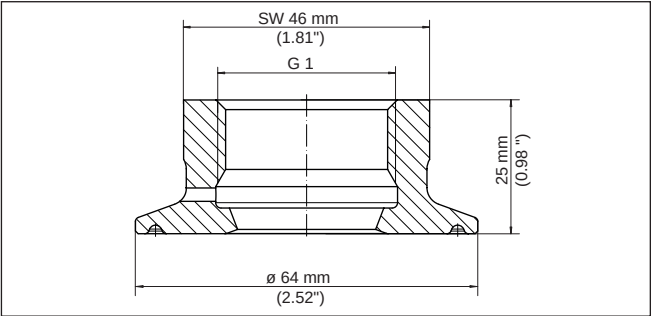


Fig. 94: Dimensions hygienic adapter G1 (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 40 - Cone seal

**G1 - Clamp 1½" - O-ring seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | Clamp 1½"               |
|                  | Standard                        | DIN 32676, ISO 2852     |
|                  | Pressure stage                  | PN 40                   |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>1)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XAT          |

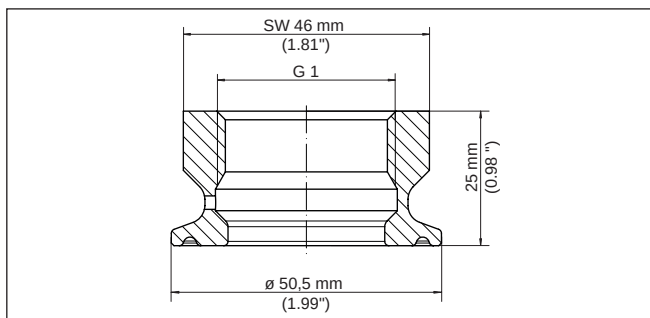


Fig. 95: Dimensions hygienic adapter G1 (DIN 3852-X) on Clamp 1½" (DIN 32676, ISO 2852) PN 40 - O-ring seal

**G1 - Clamp 2" - O-ring seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | Clamp 2"                |
|                  | Standard                        | DIN 32676, ISO 2852     |
|                  | Pressure stage                  | PN 40                   |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>2)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XAR          |

<sup>1)</sup> EHEDG in preparation

<sup>2)</sup> EHEDG in preparation

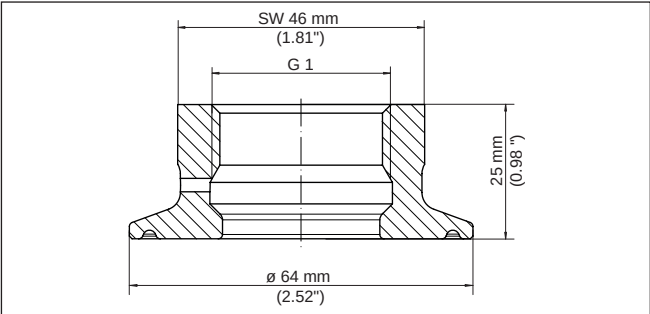


Fig. 96: Dimensions hygienic adapter G1 (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 40 - O-ring seal

### 13.4 Slotted nut acc. to DIN 11851

#### G1 - Slotted nut DN 40 - Cone seal

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 40          |
|                  | Standard              | DIN 11851      |
|                  | Pressure stage        | PN 40          |
|                  | Product code/Art. no. | HYGADAPT-C.XEZ |

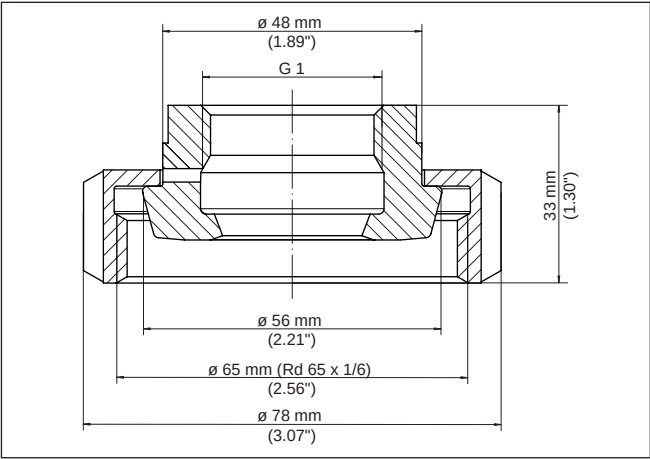


Fig. 97: Dimensions hygienic adapter G1 (DIN 3852-X) on slotted nut DN 40 (DIN 11851) PN 40 - Cone seal

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## G $\frac{1}{2}$ 1 - Slotted nut DN 50 - Cone seal

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 50          |
|                  | Standard              | DIN 11851      |
|                  | Pressure stage        | PN 25          |
|                  | Product code/Art. no. | HYGADAPT-C.XNB |

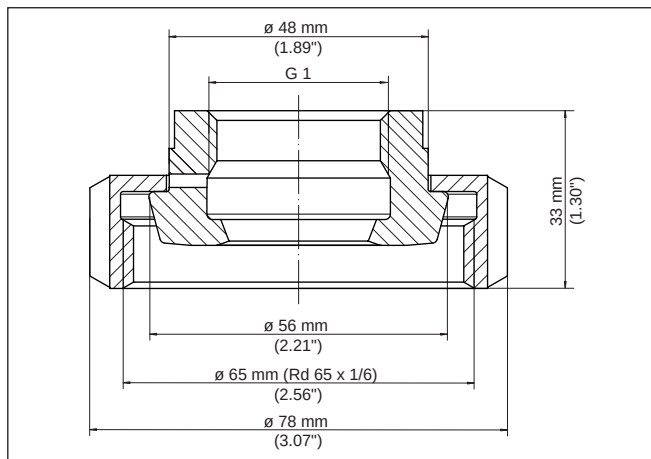


Fig. 98: Dimensions hygienic adapter G1 (DIN 3852-X) on slotted nut DN 40 (DIN 11851) PN 40 - Cone seal

## G1 - Slotted nut DN 40 - O-ring seal

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | DN 40                   |
|                  | Standard                        | DIN 11851               |
|                  | Pressure stage                  | PN 40                   |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>3)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XEZ          |

<sup>3)</sup> EHEDG in preparation

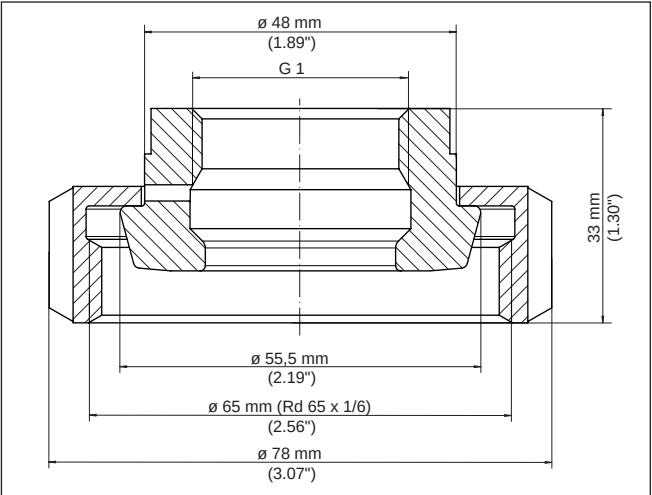


Fig. 99: Dimensions hygienic adapter G1 (DIN 3852-X) on slotted nut DN 40 (DIN 11851) PN 40 - O-ring seal

**G $\frac{1}{2}$ 1 - Slotted nut DN 50 - O-ring seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | DN 50                   |
|                  | Standard                        | DIN 11851               |
|                  | Pressure stage                  | PN 25                   |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>4)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XEZ          |

<sup>4)</sup> EHEDG in preparation

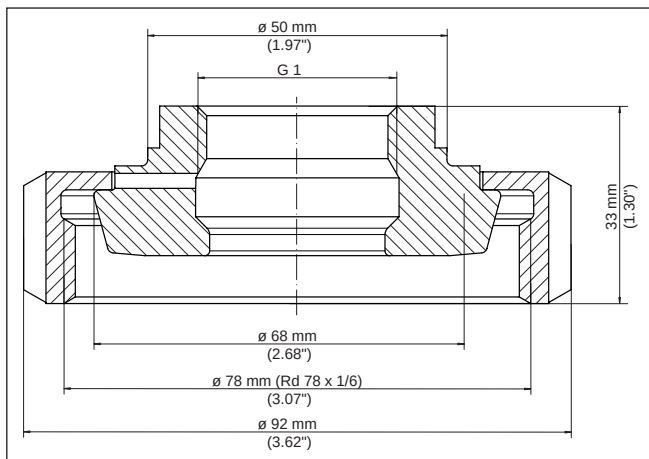


Fig. 100: Dimensions hygienic adapter G1 (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 40 - O-ring

## 13.5 Slotted nut acc. to DIN 11864-1

### G1 - Slotted nut DN 40 - Cone seal

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 40          |
|                  | Standard              | DIN 11864-1    |
|                  | Pressure stage        | PN 40          |
|                  | Product code/Art. no. | HYGADAPT-C.XE2 |

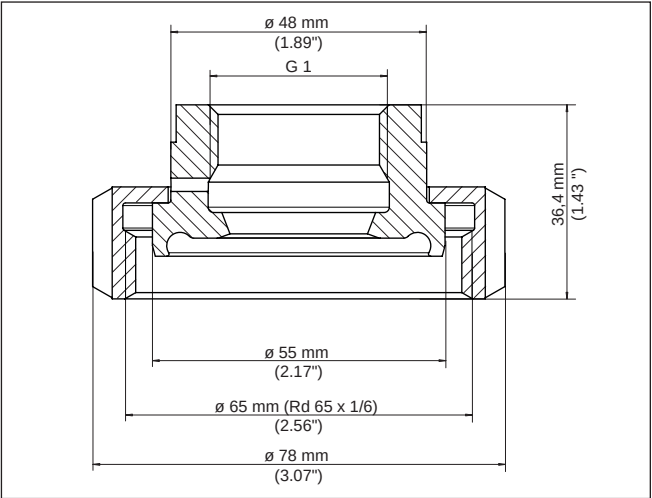


Fig. 101: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on slotted nut DN 40 (DIN 11864-1) PN 16 - Cone seal

**G $\frac{1}{2}$ 1 - Slotted nut DN 50 - Cone seal**

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 50          |
|                  | Standard              | DIN 11864-1    |
|                  | Pressure stage        | PN 25          |
|                  | Product code/Art. no. | HYGADAPT-C.XE3 |



**Dimensions:**

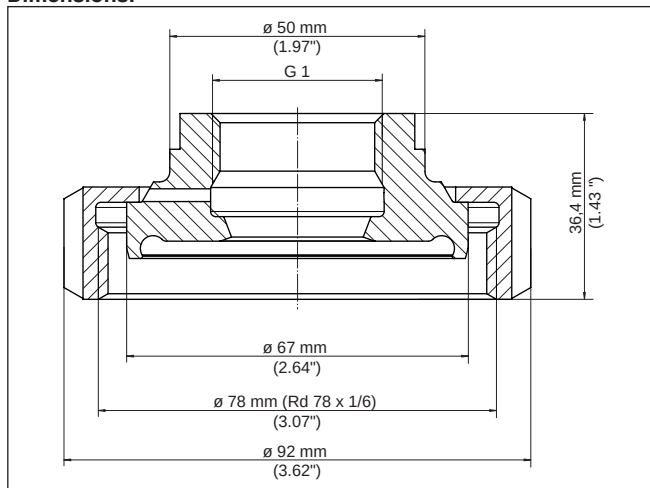


Fig. 102: Dimensions hygienic adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 50 (DIN 11864-1) PN 25 - Cone seal

**G1 - Slotted nut DN 40 - O-ring seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | DN 40                   |
|                  | Standard                        | DIN 11864-1             |
|                  | Pressure stage                  | PN 40                   |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>5)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XE2          |

<sup>5)</sup> EHEDG in preparation

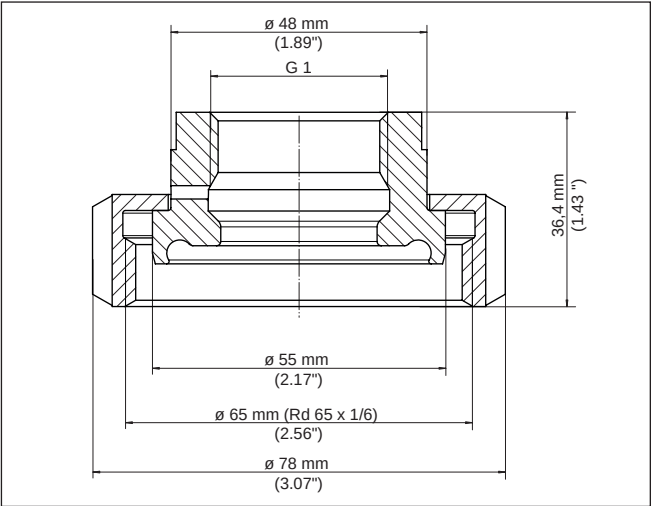


Fig. 103: Dimensions hygienic adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 40 (DIN 11864-1) PN 40 - O-ring seal

**G $\frac{1}{2}$ 1 - Slotted nut DN 50 - O-ring seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | DN 50                   |
|                  | Standard                        | DIN 11864-1             |
|                  | Pressure stage                  | PN 25                   |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>6)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XE3          |

<sup>6)</sup> EHEDG in preparation

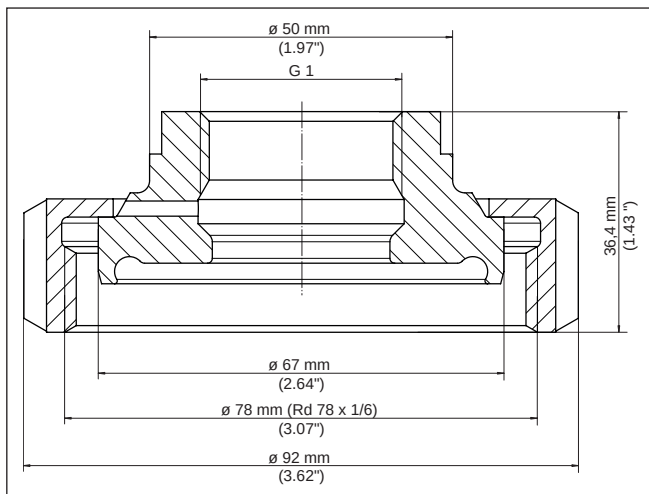


Fig. 104: Dimensions hygienic adapter G $\frac{3}{4}$  (DIN 3852-X) on slotted nut DN 50 (DIN 11864-1) PN 25 - O-ring seal

#### G1 - Varivent Form F DN 25 - Cone seal

### 13.6 Further hygienic fittings

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 32          |
|                  | Standard              | Varivent       |
|                  | Pressure stage        | PN 25          |
|                  | Material              | 1.4435         |
|                  | Surface               | Ra ≤ 0.76 µm   |
|                  | Product code/Art. no. | HYGADAPT-C.XFS |

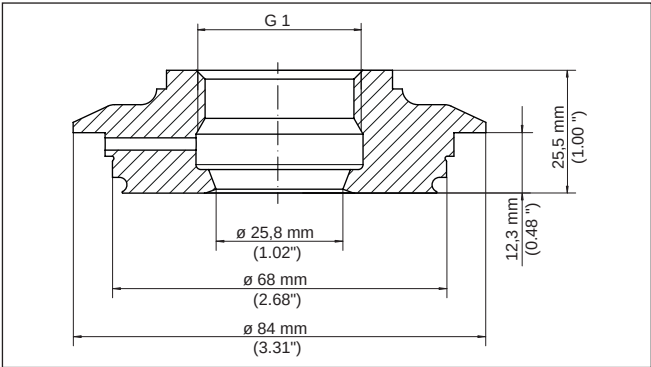


Fig. 105: Dimensions hygienic adapter G1 (DIN 3852-X) on Varivent Form F DN 25 - Cone seal

**G1 - Varivent Form N  
DN 40 ... DN 100 - Cone  
seal**

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 40          |
|                  | Standard              | Varivent       |
|                  | Pressure stage        | PN 25          |
|                  | Material              | 1.4435         |
|                  | Surface               | Ra ≤ 0.76 µm   |
|                  | Product code/Art. no. | HYGADAPT-C.XFR |

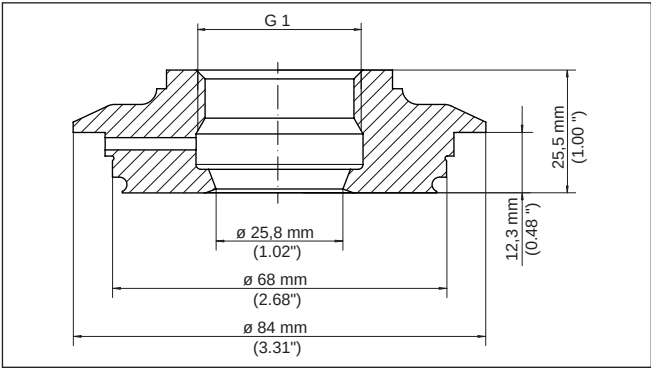


Fig. 106: Dimensions hygienic adapter G1 (DIN 3852-X) on Varivent Form N DN 40 ... DN 100 - Cone seal

**G1 - Varivent Form F  
DN 25 - O-ring seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | DN 40                   |
|                  | Standard                        | Varivent                |
|                  | Pressure stage                  | PN 25                   |
|                  | Material                        | 1.4435                  |
|                  | Surface                         | $Ra \leq 0.76 \mu m$    |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>7)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XFS          |

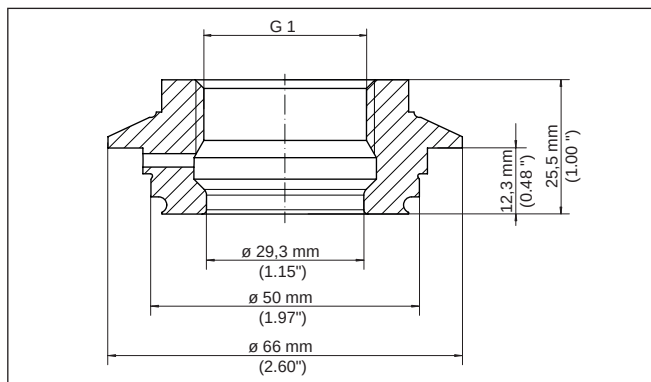


Fig. 107: Dimensions hygienic adapter G1 (DIN 3852-X) on Varivent Form F DN 25 - O-ring seal

**G1 - Varivent Form N  
DN 40 ... DN 100 - O-ring  
seal**

| Part             | Feature                         | Characteristic          |
|------------------|---------------------------------|-------------------------|
| Hygienic adapter | Size, sensor side               | G1                      |
|                  | Standard                        | DIN 3852-X              |
|                  | Size, process side              | DN 40                   |
|                  | Standard                        | Varivent                |
|                  | Pressure stage                  | PN 25                   |
|                  | Material                        | 1.4435                  |
|                  | Surface                         | $Ra \leq 0.76 \mu m$    |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>8)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XFR          |

<sup>7)</sup> EHEDG in preparation

<sup>8)</sup> EHEDG in preparation

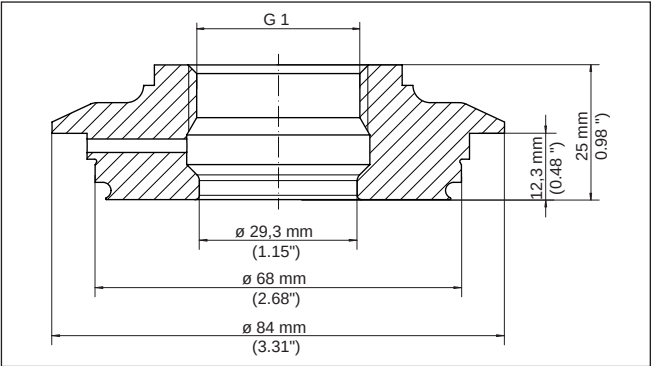


Fig. 108: Dimensions hygienic adapter G1 (DIN 3852-X) on Varivent Form N DN 40 ... DN 100 - O-ring seal

**G1 - SMS DN 38 - Cone seal**

| Part             | Feature               | Characteristic                         |
|------------------|-----------------------|----------------------------------------|
| Hygienic adapter | Size, sensor side     | G1                                     |
|                  | Standard              | DIN 3852-X                             |
|                  | Size, process side    | DN 40                                  |
|                  | Standard              | SMS                                    |
|                  | Pressure stage        | PN 6                                   |
|                  | Material              | 1.4435                                 |
|                  | Surface               | $Ra \leq 0.76 \mu\text{m}$             |
|                  | Hygiene certificate   | FDA, EG 1935/2004, EHEDG <sup>9)</sup> |
|                  | Product code/Art. no. | HYGADAPT-C.XFA                         |

<sup>9)</sup> EHEDG in preparation

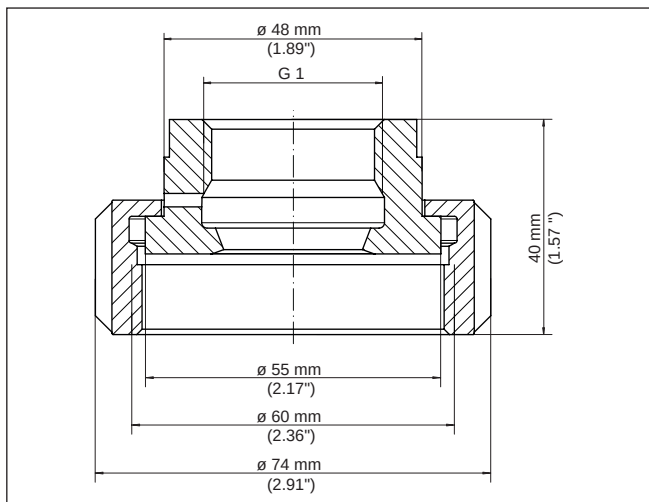


Fig. 109: Dimensions hygienic adapter G1 (DIN 3852-X) on SMS DN 38 - Cone seal

### G1 - SMS DN 38 - O-ring seal

| Part             | Feature                         | Characteristic           |
|------------------|---------------------------------|--------------------------|
| Hygienic adapter | Size, sensor side               | G1                       |
|                  | Standard                        | DIN 3852-X               |
|                  | Size, process side              | DN 40                    |
|                  | Standard                        | SMS                      |
|                  | Pressure stage                  | PN 6                     |
|                  | Material                        | 1.4435                   |
|                  | Surface                         | $Ra \leq 0.76 \mu m$     |
|                  | Additional hygienic certificate | EHEDG, 3A <sup>10)</sup> |
|                  | Product code/Art. no.           | HYGADAPT-L.XFA           |

<sup>10)</sup> EHEDG in preparation

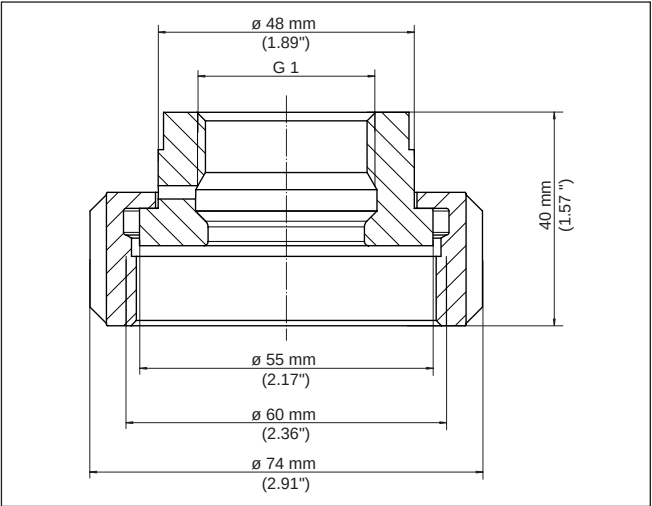


Fig. 110: Dimensions hygienic adapter G1 (DIN 3852-X) on SMS DN 25 - O-ring seal



## 14 Hygienic adapter - VEGAPOINT 10, 20 series

### 14.1 Technical data, sealing concept

#### Common technical data

| Part             | Feature                 | Characteristic       |
|------------------|-------------------------|----------------------|
| Hygienic adapter | Material                | 1.4435               |
|                  | Surface                 | Ra ≤ 0.76 µm         |
|                  | Hygiene certificate     | FDA, EG 1935/2004    |
| Max. torque      | Cone seal plastic/metal | 50 Nm (36.88 lbf ft) |

#### Sealing concept plastic/metal

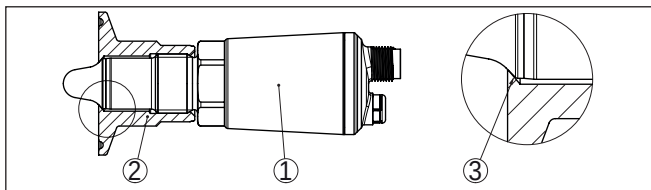


Fig. 111: Cone seal G $\frac{1}{2}$  VEGAPOINT plastic/metal

- 1 Sensor
- 2 Hygienic adapter
- 3 Seal plastic/metal

### 14.2 Direct welded socket

#### Thread G $\frac{1}{2}$ - Cone seal

| Part          | Feature               | Characteristic    |
|---------------|-----------------------|-------------------|
| Welded socket | Size                  | G $\frac{1}{2}$ B |
|               | Standard              | ISO 228-1         |
|               | Product code/Art. no. | HYGADAPT-PX7F     |

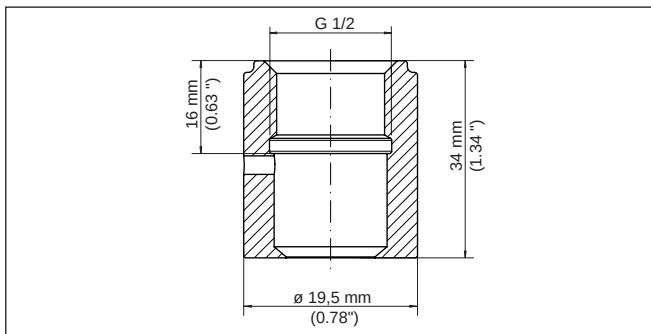


Fig. 112: Dimensions direct welded socket G $\frac{1}{2}$  - Cone seal

### 14.3 Clamp according to DIN 32676, ISO 2852

#### G $\frac{1}{2}$ - Clamp 1 $\frac{1}{2}$ " - Cone seal

| Part             | Feature               | Characteristic          |
|------------------|-----------------------|-------------------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$         |
|                  | Standard              | DIN 3852-X              |
|                  | Size, process side    | Clamp 1 $\frac{1}{2}$ " |
|                  | Standard              | DIN 32676, ISO 2852     |
|                  | Pressure stage        | PN 40                   |
|                  | Product code/Art. no. | HYGADAPT-P.XAT          |

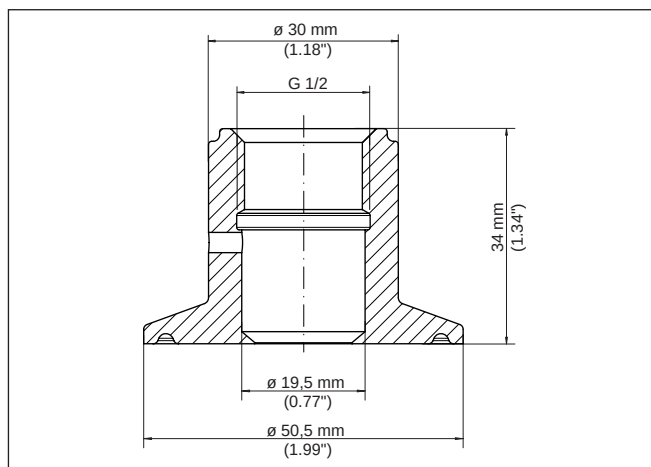


Fig. 113: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on Clamp 1 $\frac{1}{2}$ " (DIN 32676, ISO 2852) PN 40 - Cone seal

#### G $\frac{1}{2}$ - Clamp 2" - Cone seal

| Part             | Feature               | Characteristic      |
|------------------|-----------------------|---------------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$     |
|                  | Standard              | DIN 3852-X          |
|                  | Size, process side    | Clamp 2"            |
|                  | Standard              | DIN 32676, ISO 2852 |
|                  | Pressure stage        | PN 40               |
|                  | Product code/Art. no. | HYGADAPT-C.XAR      |

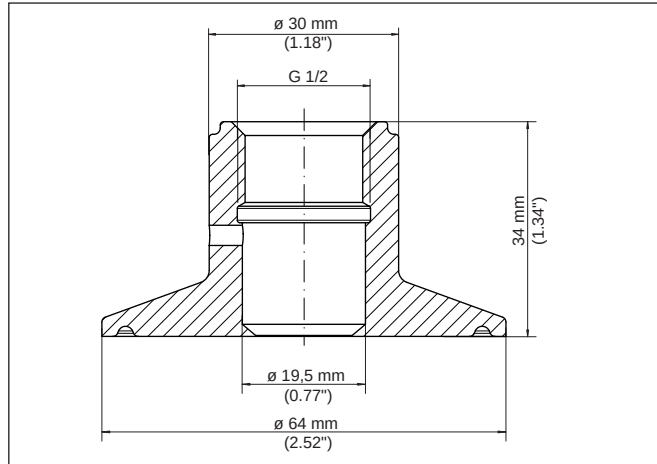


Fig. 114: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 40 - Cone seal

## 14.4 Slotted nut acc. to DIN 11851

### G $\frac{1}{2}$ - Slotted nut DN 25 - Cone seal

| Part             | Feature               | Characteristic  |
|------------------|-----------------------|-----------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$ |
|                  | Standard              | DIN 3852-X      |
|                  | Size, process side    | DN 25           |
|                  | Standard              | DIN 11851       |
|                  | Pressure stage        | PN 40           |
|                  | Product code/Art. no. | HYGADAPT-P.XE5  |

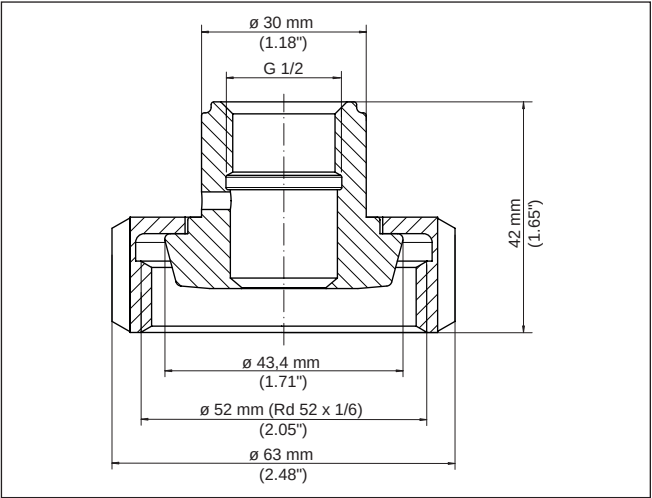


Fig. 115: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on slotted nut DN 25 (DIN 11851) PN 40 - Cone seal

**G $\frac{1}{2}$  - Slotted nut DN 40 - Cone seal**

| Part             | Feature               | Characteristic  |
|------------------|-----------------------|-----------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$ |
|                  | Standard              | DIN 3852-X      |
|                  | Size, process side    | DN 40           |
|                  | Standard              | DIN 11851       |
|                  | Pressure stage        | PN 40           |
|                  | Product code/Art. no. | HYGADAPT-P.XEZ  |

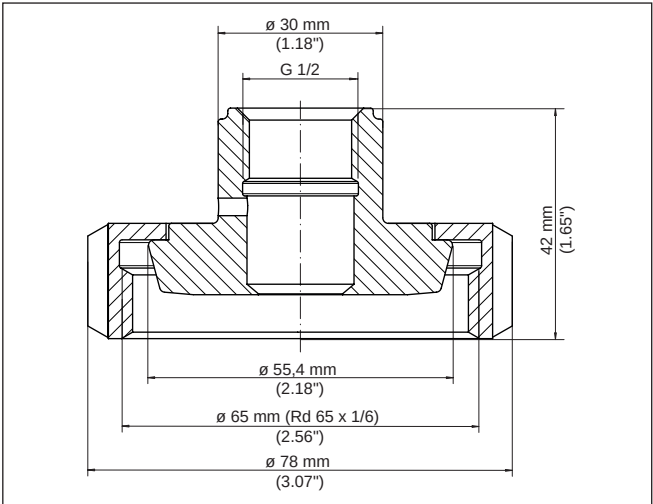


Fig. 116: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on slotted nut DN 40 (DIN 11851) PN 40 - Cone seal

## 14.5 Slotted nut acc. to DIN 11864-1

G $\frac{1}{2}$  - Slotted nut DN 25 -  
Cone seal

| Part             | Feature               | Characteristic  |
|------------------|-----------------------|-----------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$ |
|                  | Standard              | DIN 3852-X      |
|                  | Size, process side    | DN 25           |
|                  | Standard              | DIN 11864-1     |
|                  | Pressure stage        | PN 40           |
|                  | Product code/Art. no. | HYGADAPT-P.XU5  |

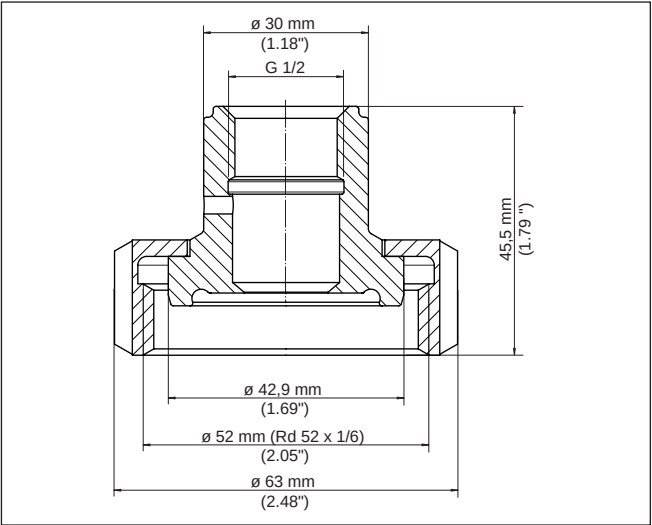


Fig. 117: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on slotted nut DN 25 (DIN 11851-1) PN 40 - Cone seal

**G $\frac{1}{2}$  - Slotted nut DN 40 - Cone seal**

| Part             | Feature               | Characteristic  |
|------------------|-----------------------|-----------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$ |
|                  | Standard              | DIN 3852-X      |
|                  | Size, process side    | DN 25           |
|                  | Standard              | DIN 11864-1     |
|                  | Pressure stage        | PN 40           |
|                  | Product code/Art. no. | HYGADAPT-P.XE2  |

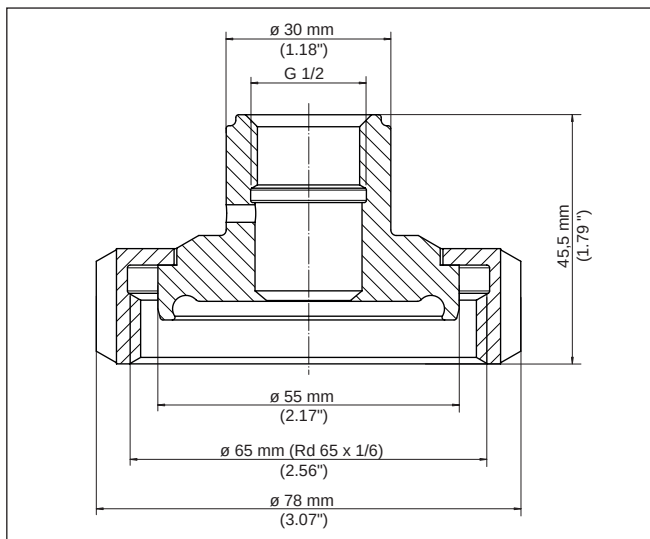


Fig. 118: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on slotted nut DN 40 (DIN 11864-1) PN 40 - Cone seal

## 14.6 Further hygienic fittings

G $\frac{1}{2}$  - Varivent Form N  
DN 40 ... DN 100 - Cone  
seal

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 40          |
|                  | Standard              | Varivent       |
|                  | Pressure stage        | PN 25          |
|                  | Product code/Art. no. | HYGADAPT-P.XFR |

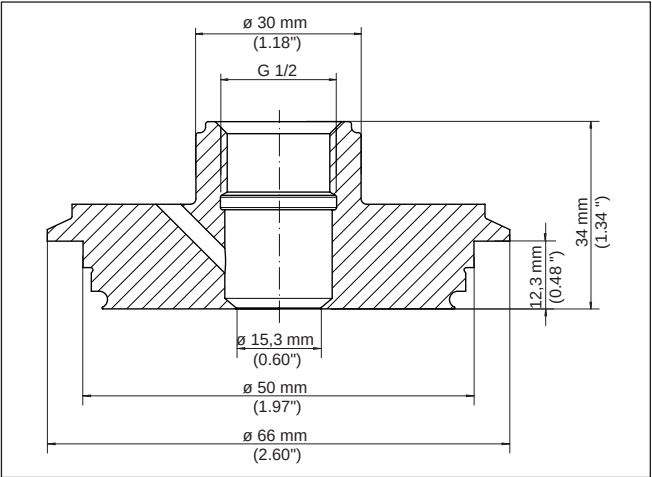


Fig. 119: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on Varivent Form N DN 40 ... DN 100 - Cone seal

**G $\frac{1}{2}$  - Varivent Form F  
DN 25 - Cone seal**

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 32          |
|                  | Standard              | Varivent       |
|                  | Pressure stage        | PN 25          |
|                  | Product code/Art. no. | HYGADAPT-P.XFS |



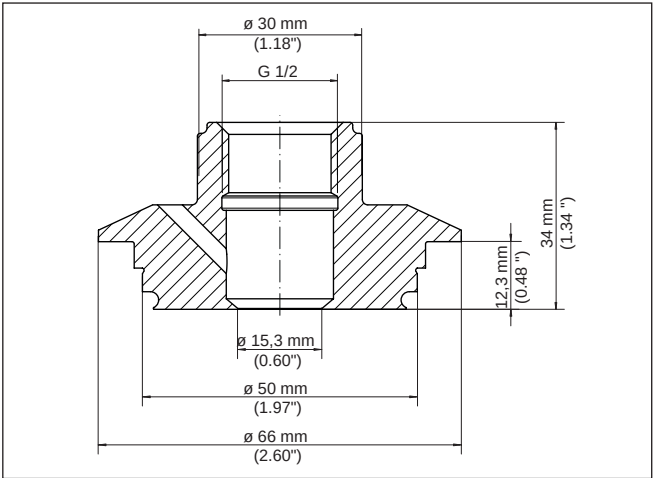


Fig. 120: Dimensions hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on Varivent Form F DN 25 - Cone seal

**G $\frac{1}{2}$  - SMS DN 38 - Cone seal**

| Part             | Feature               | Characteristic |
|------------------|-----------------------|----------------|
| Hygienic adapter | Size, sensor side     | G1             |
|                  | Standard              | DIN 3852-X     |
|                  | Size, process side    | DN 40          |
|                  | Standard              | SMS            |
|                  | Pressure stage        | PN 6           |
|                  | Product code/Art. no. | HYGADAPT-P.XFA |

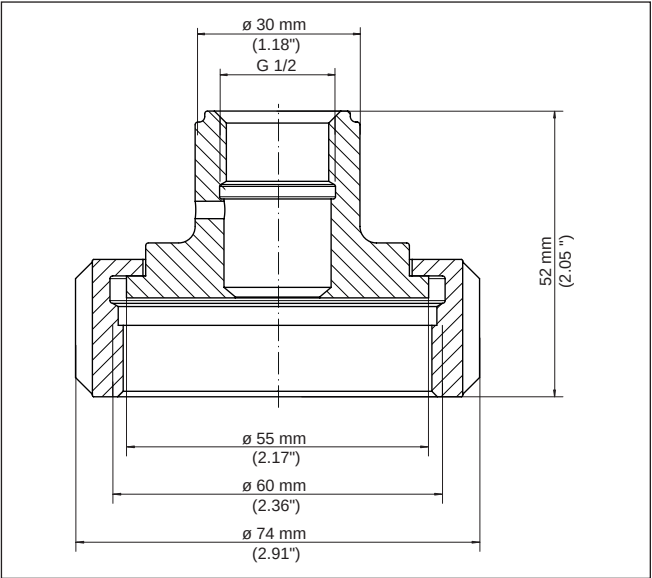


Fig. 121: Dimensions hygienic adapter G½ (DIN 3852-X) on SMS DN 38 - Cone seal

## 15 Hygienic adapter - VEGAPULS 10, 20, 30 series

### 15.1 Technical data, sealing concept

#### Common technical data

| Part             | Feature             | Characteristic       |
|------------------|---------------------|----------------------|
| Hygienic adapter | Material            | 1.4435               |
|                  | Surface             | $Ra \leq 0.76 \mu m$ |
|                  | Hygiene certificate | FDA, EG 1935/2004    |
| Max. torque      |                     | 7 Nm (5.163 lbf ft)  |

#### Seal concept

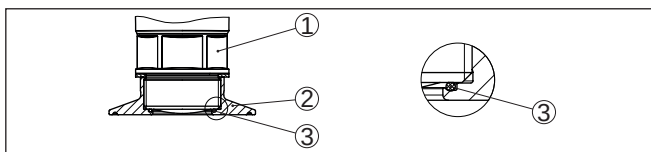


Fig. 122: Seal concept

- 1 Sensor
- 2 Hygienic adapter
- 3 Seal

### 15.2 Clamp according to DIN 32676, ISO 2852

#### G1½ - Clamp 2"

| Part             | Feature               | Characteristic                 |
|------------------|-----------------------|--------------------------------|
| Hygienic adapter | Size, sensor side     | G1½                            |
|                  | Standard              | DIN 3852-X                     |
|                  | Size, process side    | Clamp 2"                       |
|                  | Standard              | DIN 32676, ISO 2852            |
|                  | Pressure stage        | PN 40                          |
|                  | Product code/Art. no. | HYGADAPT-R.XC1                 |
| Seal             | Material EPDM         | -40 ... +80 °C/-40 ... +176 °F |
|                  | Configuration         | O-ring seal                    |
|                  | Size                  | 37.82 x 1.78 mm                |

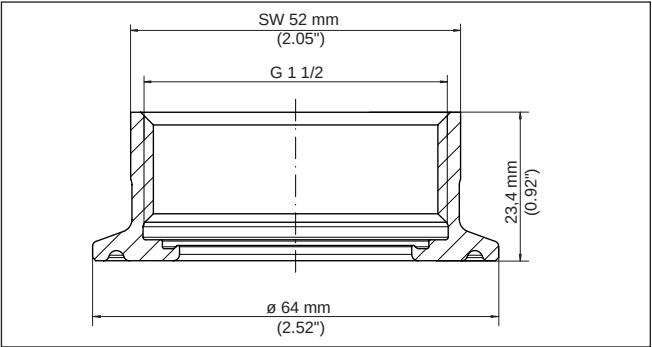


Fig. 123: Dimensions of hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 40

15.3 Slotted nut acc. to DIN 11851

G $\frac{1}{2}$  - Slotted nut DN 50

| Part             | Feature               | Characteristic                 |
|------------------|-----------------------|--------------------------------|
| Hygienic adapter | Size, sensor side     | G $\frac{1}{2}$                |
|                  | Standard              | DIN 3852-X                     |
|                  | Size, process side    | DN 50                          |
|                  | Standard              | DIN 11851                      |
|                  | Pressure stage        | PN 40                          |
|                  | Product code/Art. no. | HYGADAPT-R.XB1                 |
| Seal             | Material EPDM         | -40 ... +80 °C/-40 ... +176 °F |
|                  | Configuration         | O-ring seal                    |
|                  | Size                  | 37.82 x 1.78 mm                |

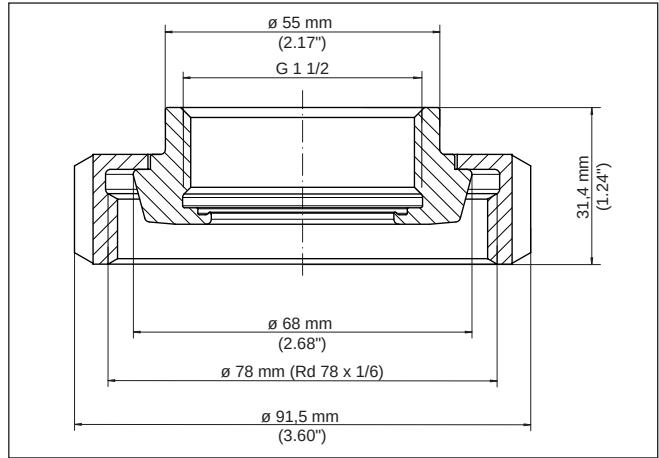


Fig. 124: Dimensions of hygienic adapter G $\frac{1}{2}$  (DIN 3852-X) on slotted nut DN 50 (DIN 11851) PN 40

## 16 Welding, mounting

### 16.1 Welding instructions



#### Information:

The following welding instructions are for information only. It is important that the welding regulations are always observed. The AD leaflets must also be noted when welding on pressure vessels.

#### Preparations

When welding stainless steel, utmost cleanliness is necessary. Rusty tools or screwed parts, e.g., are not allowed. Also make sure that no mild steel is processed in the vicinity.

Use sufficient inert gas for tack welding. Make sure that you only tack weld, not spot-weld. For tacking and welding, use pure argon protective gas.

#### Welding dummy

A suitable welding dummy must be used to avoid warping the welded socket.

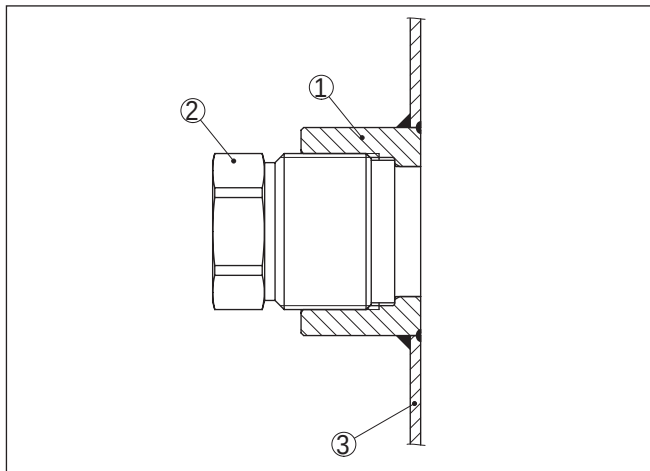


Fig. 125: Welding dummy

- 1 Welded socket
- 2 Dummy
- 3 Pipeline or vessel wall

#### Welding procedure

It is generally recommended to divide the weld joint into several segments.

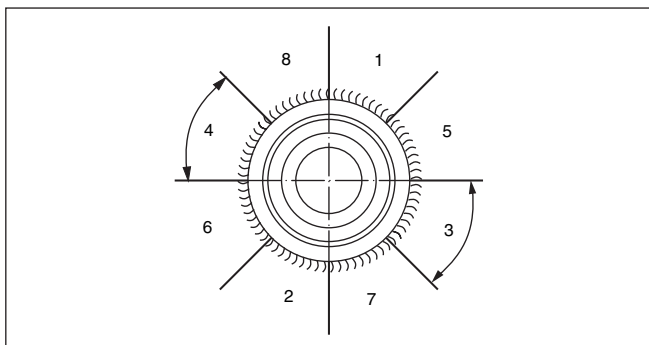


Fig. 126: Segmental welding

After welding a segment, go to the other side and weld the segment that lies exactly opposite. Interrupt the welding process after two segments and wait until the weld joint cools or carefully cool the weld joint yourself before you start welding again.

### Pressure bearing capacity

The pressure bearing capacity of the welded socket depends on the quality of the weld as well as the material of the welded socket. In the case of threaded sockets, the total thread length must be utilized for pressure loading.

## 16.2 Mounting instructions threaded and hygienic adapter

### Preparations

Use suitable spanners to screw the sensor into the adapter. The specifications are stated in the appropriate chapters of this manual or in the operating instructions manual of the respective sensor.

### Mounting

Place the parts, especially with hygienic adapters, on a suitable, clean surface (e.g. workbench) and screw them together with the respective specified torque.



#### Note:

Avoid damage to the surface of the process fitting and adapter. Any damage can particularly impair the hygienic properties.



#### Note:

The cone seals metal/metal or plastic/metal provide a secure sealing when tightened once.

Loosening and retightening reduces the quality of the contact surfaces. Leakage, product leakage and contamination can be the result.

Printing date:

# VEGA

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

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