

## Food & Beverage Catalogue

### Stainless Steel - Filter Housings

Sartorius Stedim Biotech F&B filter housings for sanitary beverage filtration applications

- Beer
- Wine & Spirits
- Mineral | Bottled Water
- Carbonated Soft Drinks
- Non-Carbonated Soft Drinks



# Introduction

Sartorius Stedim Biotech F&B filter housings were developed for sanitary beverage filtration applications, including:

- Beer
- Wine & spirits
- Mineral | Bottled water
- Carbonated Soft drinks
- Non-carbonated Soft drinks

Thanks to their optimized design, our F&B housings are exceptionally easy to clean for thorough results and can be in-line steam sterilized as a complete unit, incl. gaskets.

Our housings have been designed in accordance with the European Pressure Equipment Directive PED 2014/68/EU - rule EN13445.

The complete series of 810 and 813 housings are available in sizes ranging from 1 to 30 cartridges and heights from 10" to 40". The cartridge socket adapter is available in code 25 (code 7) and code 28 (810 liquid & 813 liquid).

Sartorius Stedim Biotech F&B housings can be equipped with a wide range of Inlet and Outlet connections such as DIN11851 and sanitary Clamp. Other connections are available upon request. Vent and drain options are also available in multiple designs and configurations.

Gaskets are offered in various material types depending on the application. As standard, we use FDA, USP Class VI, EC 1935/2004 article 3 - & Phthalate-free compliant Silicone & EPDM elastomers.

Certification is according to PED 2014/68/EU. Additional certificates like Ra roughness or material certificates (MTR's) are available upon request.

Only 316L grade stainless steel is used for all wetted surfaces to provide maximum durability and resistance to corrosion.

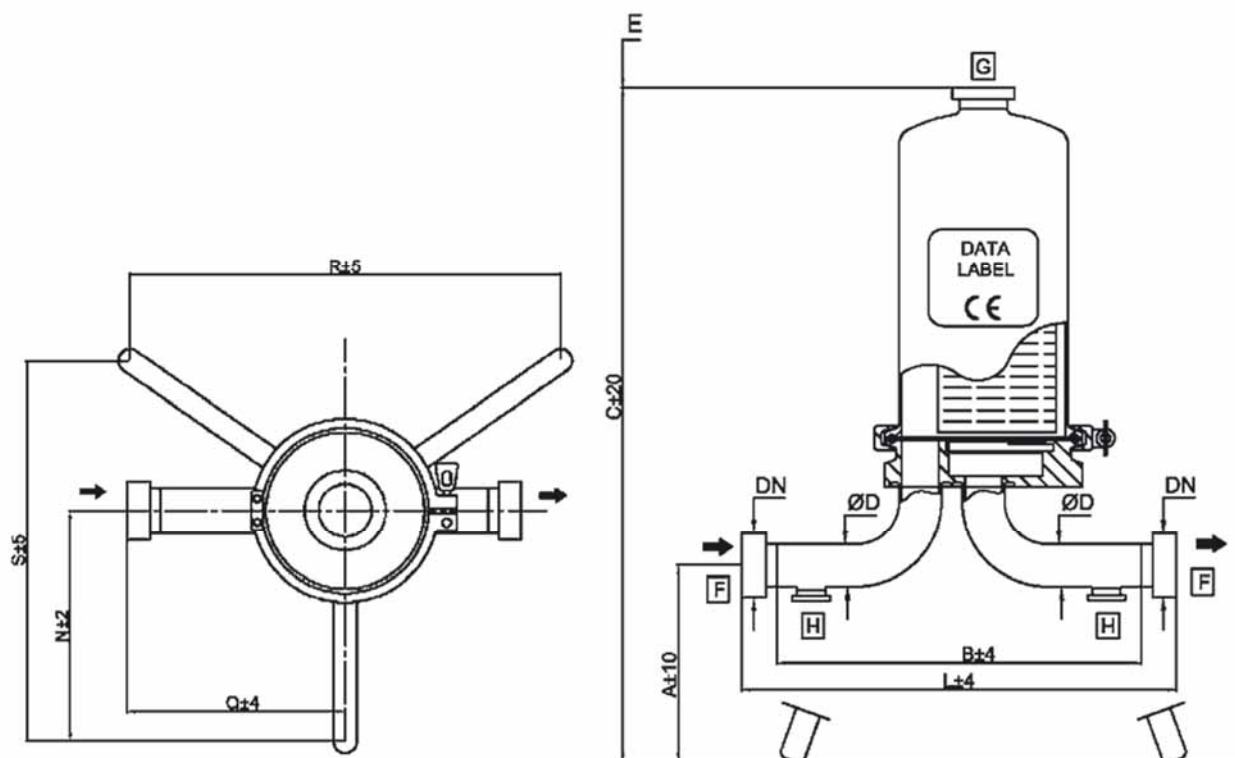
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## Type 810 - (10 bar Version)







### DATA LABEL EXAMPLE

|  <b>FILTER HOUSING</b>                                                                                                                                                               |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PART NUMBER                                                                                                                                                                                                                                                             |                |
| MODEL                                                                                                                                                                                                                                                                   |                |
| TYPE                                                                                                                                                                                                                                                                    |                |
| CARTRIDGE NO. x HIGH (inch)                                                                                                                                                                                                                                             |                |
| CATEGORY 2014/68/EU                                                                                                                                                                                                                                                     |                |
| VOLUME LITRES (V)                                                                                                                                                                                                                                                       |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                  |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                  |                |
| TEST PRESSURE(PT) bar                                                                                                                                                                                                                                                   |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                            | GR.2 - LIQ/GAS |
| LIMITED TO CLEAN IN PLACE (CIP)                                                                                                                                                                                                                                         |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                  |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                            | GR.1 - LIQ     |
| VESSEL MATERIAL                                                                                                                                                                                                                                                         |                |
| YEAR OF MANUFACTURE                                                                                                                                                                                                                                                     |                |
| VESSEL NUMBER                                                                                                                                                                                                                                                           |                |
|  <b>0948</b>   |                |
|                                                                                                   |                |

| TECHNICAL DATA                          |                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------|
| SERIES                                  | VHP                                                                       |
| NO. CARTRIDGES                          | 01                                                                        |
| ATEX REGULATION                         | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                             | EN 13445                                                                  |
| SERVICE CONDITIONS                      | Gr.2 - LIQ,GAS                                                            |
| PED FLUID GROUP                         |                                                                           |
| PRESSURE (PS) min-max bar (psi)         | -1 +10 bar ( -14.5 + 145 psi )                                            |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +40°C ( -4 +104 °F )                                                  |
| PRESSURE (PS) min-max bar (psi)         | -1 +4 bar ( -14.5 +58 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +150°C ( -4° +302°F )                                                 |
| LIMITED TO CLEAN IN PLACE (CIP)         |                                                                           |
| PED FLUID GROUP                         | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)         | +0 +3 bar ( +0 +43.5 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F)        | +10 +80°C ( +50° +176°F )                                                 |
| TEST PRESSURE (PT)                      | 20 bar ( 290 psi )                                                        |
| VESSEL MATERIAL                         | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL             | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL                   | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL                   | FINE BRUSHED                                                              |
| EXTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL ROUGHNESS                      | Ra<0.8 µm ( Ra<32 µin )                                                   |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 01 x 10"               | 339  | 326  | 207  | 790  | 300  | 3.0               |
| 01 x 20"               | 339  | 326  | 207  | 1040 | 550  | 4.8               |
| 01 x 30"               | 339  | 326  | 207  | 1290 | 800  | 6.8               |
| 01 x 40"               | 339  | 326  | 207  | 1540 | 1050 | 8.6               |

| Clamp                  |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | L   | Q   | A          | L   | Q   |
| 1.0" (25.4mm x 1.65mm) | 375           | 188 | 103 | 375        | 269 | 154 |

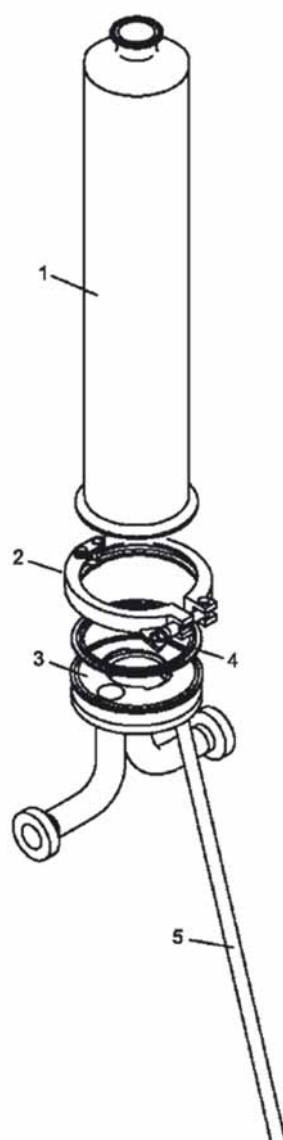
| DIN 11851 Male Part |               |     |     |            |     |     |
|---------------------|---------------|-----|-----|------------|-----|-----|
|                     | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |
| DN25                | 375           | 220 | 118 | 375        | 300 | 169 |

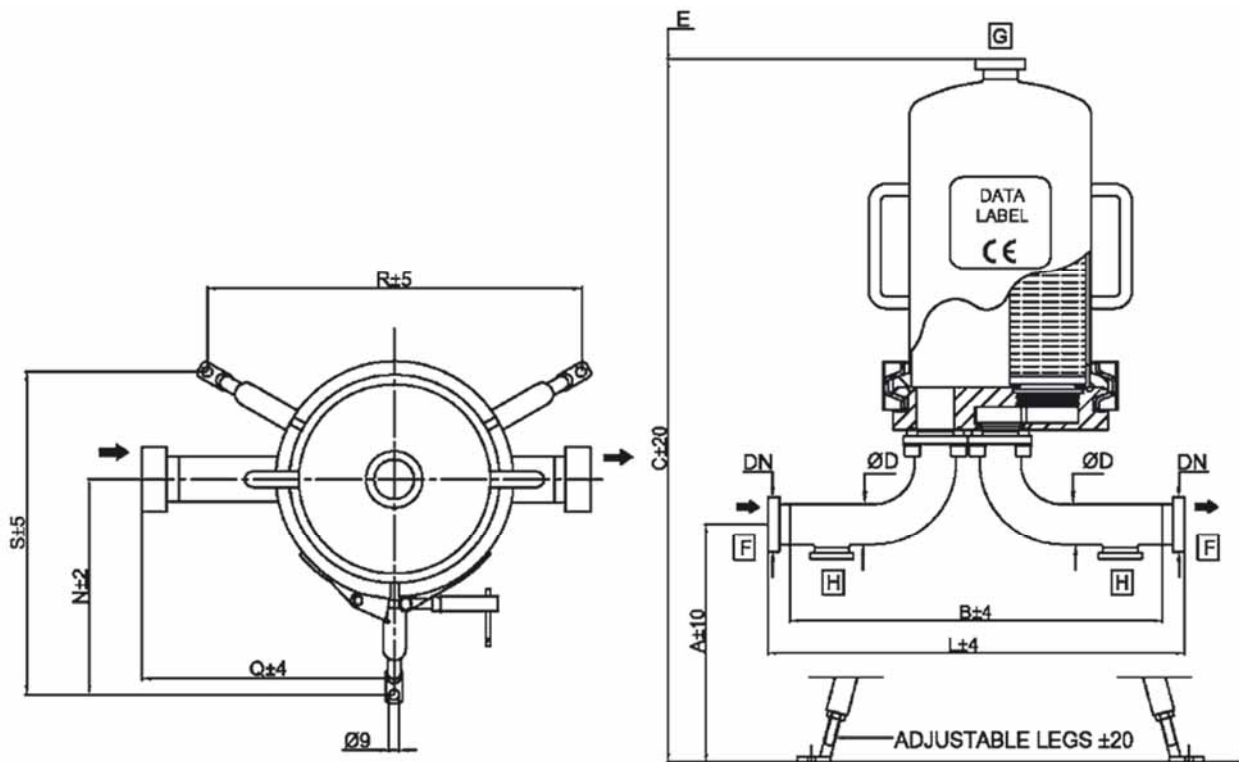
| Butt Weld ASME BPE     |               |     |    |            |     |     |
|------------------------|---------------|-----|----|------------|-----|-----|
|                        | Without Drain |     |    | With Drain |     |     |
| Dimension [mm]         | A             | B   | Q  | A          | B   | Q   |
| 1.0" (25.4mm x 1.65mm) | 375           | 163 | 90 | 375        | 244 | 141 |

| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 01 x 10"                  | 2.0              | 7.0                   | 65x27x17          | 8.0                      |
| 01 x 20"                  | 3.3              | 8.2                   | 87x27x17          | 9.5                      |
| 01 x 30"                  | 4.6              | 9.4                   | 112x27x17         | 11.0                     |
| 01 x 40"                  | 5.9              | 10.6                  | 137x27x17         | 13.0                     |

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.0" |
| 810011GXXAGG025L                    | 01                | 10"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | x                  |
| 810011HXXAGG025L                    | 01                | 10"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | x                  |
| 810011GXXEGG025L                    | 01                | 10"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | -                  |
| 810011HXXEGG025L                    | 01                | 10"         | DIN 11851 Male Part | DN 25            | EPDM     | X                 | -                  |
| 810011GXXATT010L                    | 01                | 10"         | TC                  | 1"               | Silicone | x                 | x                  |
| 810011HXXATT010L                    | 01                | 10"         | TC                  | 1"               | EPDM     | x                 | x                  |
| 810011GXXETT010L                    | 01                | 10"         | TC                  | 1"               | Silicone | x                 | -                  |
| 810011HXXETT010L                    | 01                | 10"         | TC                  | 1"               | EPDM     | x                 | -                  |
| 810011GXXASS010L                    | 01                | 10"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | x                  |
| 810011HXXASS010L                    | 01                | 10"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | x                  |
| 810011GXXESS010L                    | 01                | 10"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | -                  |
| 810011HXXESS010L                    | 01                | 10"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | -                  |
| 810012GXXAGG025L                    | 01                | 20"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | x                  |
| 810012HXXAGG025L                    | 01                | 20"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | x                  |
| 810012GXXEGG025L                    | 01                | 20"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | -                  |
| 810012HXXEGG025L                    | 01                | 20"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | -                  |
| 810012GXXATT010L                    | 01                | 20"         | TC                  | 1"               | Silicone | x                 | x                  |
| 810012HXXATT010L                    | 01                | 20"         | TC                  | 1"               | EPDM     | x                 | x                  |
| 810012GXXETT010L                    | 01                | 20"         | TC                  | 1"               | Silicone | x                 | -                  |
| 810012HXXETT010L                    | 01                | 20"         | TC                  | 1"               | EPDM     | x                 | -                  |
| 810012GXXASS010L                    | 01                | 20"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | x                  |
| 810012HXXASS010L                    | 01                | 20"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | x                  |
| 810012GXXESS010L                    | 01                | 20"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | -                  |
| 810012HXXESS010L                    | 01                | 20"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | -                  |
| 810013GXXAGG025L                    | 01                | 30"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | x                  |
| 810013HXXAGG025L                    | 01                | 30"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | x                  |
| 810013GXXEGG025L                    | 01                | 30"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | -                  |
| 810013HXXEGG025L                    | 01                | 30"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | -                  |
| 810013GXXATT010L                    | 01                | 30"         | TC                  | 1"               | Silicone | x                 | x                  |
| 810013HXXATT010L                    | 01                | 30"         | TC                  | 1"               | EPDM     | x                 | x                  |
| 810013GXXETT010L                    | 01                | 30"         | TC                  | 1"               | Silicone | x                 | -                  |
| 810013HXXETT010L                    | 01                | 30"         | TC                  | 1"               | EPDM     | x                 | -                  |
| 810013GXXASS010L                    | 01                | 30"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | x                  |
| 810013HXXASS010L                    | 01                | 30"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | x                  |
| 810013GXXESS010L                    | 01                | 30"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | -                  |
| 810013HXXESS010L                    | 01                | 30"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | -                  |
| 810014GXXAGG025L                    | 01                | 40"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | x                  |
| 810014HXXAGG025L                    | 01                | 40"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | x                  |
| 810014GXXEGG025L                    | 01                | 40"         | DIN 11851 Male Part | DN 25            | Silicone | x                 | -                  |
| 810014HXXEGG025L                    | 01                | 40"         | DIN 11851 Male Part | DN 25            | EPDM     | x                 | -                  |
| 810014GXXATT010L                    | 01                | 40"         | TC                  | 1"               | Silicone | x                 | x                  |
| 810014HXXATT010L                    | 01                | 40"         | TC                  | 1"               | EPDM     | x                 | x                  |
| 810014GXXETT010L                    | 01                | 40"         | TC                  | 1"               | Silicone | x                 | -                  |
| 810014HXXETT010L                    | 01                | 40"         | TC                  | 1"               | EPDM     | x                 | -                  |
| 810014GXXASS010L                    | 01                | 40"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | x                  |
| 810014HXXASS010L                    | 01                | 40"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | x                  |
| 810014GXXESS010L                    | 01                | 40"         | Welding Stubs       | 25.4 x 1.65      | Silicone | x                 | -                  |
| 810014HXXESS010L                    | 01                | 40"         | Welding Stubs       | 25.4 x 1.65      | EPDM     | x                 | -                  |

| Spare Parts |                          |           |            |      |
|-------------|--------------------------|-----------|------------|------|
| Pos.        | Description              | Material  | Part No.   | Q.ty |
| 1           | Housing Bowl             | AISI 316L | -          | 1    |
| 2           | Clamp 4"                 | AISI 304  | 8ZSLA-0002 | 1    |
| 3a          | Clamp                    | AISI 316L | -          | 1    |
| 3           | Cartridges Plate + Bends | AISI 316L | -          | 1    |
| 4           | Gasket Clamp 4"          | Silicone  | 8ZDSC-0001 | 1    |
|             | Gasket Clamp 4"          | EPDM      | 8ZDEC-0001 | 1    |
| 5           | Leg                      | AISI 304  | -          | 3    |





## DATA LABEL EXAMPLE

|  <b>FILTER HOUSING</b>                                                                                                                                                               |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PART NUMBER                                                                                                                                                                                                                                                             |                |
| MODEL                                                                                                                                                                                                                                                                   |                |
| TYPE                                                                                                                                                                                                                                                                    |                |
| CARTRIDGE NO. x HIGH (inch)                                                                                                                                                                                                                                             |                |
| CATEGORY 2014/68/EU                                                                                                                                                                                                                                                     |                |
| VOLUME LITRES (V)                                                                                                                                                                                                                                                       |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                  |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                  |                |
| TEST PRESSURE(PT) bar                                                                                                                                                                                                                                                   |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                            | GR.2 - LIQ/GAS |
| LIMITED TO CLEAN IN PLACE (CIP)                                                                                                                                                                                                                                         |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                  |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                            | GR.1 - LIQ     |
| VESSEL MATERIAL                                                                                                                                                                                                                                                         |                |
| YEAR OF MANUFACTURE                                                                                                                                                                                                                                                     |                |
| VESSEL NUMBER                                                                                                                                                                                                                                                           |                |
|  <b>0948</b>   |                |
|                                                                                                                                                                                      |                |

## TECHNICAL DATA

|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| SERIES                               | VHP                                                                         |
| NO. CARTRIDGES                       | 03                                                                          |
| ATEX REGULATION                      | II -/2 G Ex h IIC T3....T6 -/Gb X<br>II -/2 D Ex h IIC 150°C....85°C -/Db X |
| DESIGN CODE                          | EN 13445                                                                    |
| SERVICE CONDITIONS                   |                                                                             |
| PED FLUID GROUP                      | Gr.2 - LIQ,GAS                                                              |
| PRESSURE (PS) min-max bar (psi)      | -1 +10 bar ( -14.5 + 145 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F)     | -20 +40°C ( -4 +104 °F )                                                    |
| PRESSURE (PS) min-max bar (psi)      | -1 +4 bar ( -14.5 +58 psi )                                                 |
| TEMPERATURE (TS) min-max °C (°F)     | -20 +150°C ( -4° +302°F )                                                   |
| LIMITED TO CLEAN IN PLACE (CIP)      |                                                                             |
| PED FLUID GROUP                      | Gr.1 - LIQ                                                                  |
| PRESSURE (PS) min-max bar (psi)      | +0 +3 bar ( +0 +43.5 psi )                                                  |
| TEMPERATURE (TS) min-max °C (°F)     | +10 +80°C ( +50° +176°F )                                                   |
| TEST PRESSURE (PT)                   | 20 bar ( 290 psi )                                                          |
| VESSEL MATERIAL                      | 316L / 1.4404                                                               |
| HOUSING AND GASKET MATERIAL          | EU 1935/2004 COMPLIANT                                                      |
| EXTERNAL SURFACE BOWL                | MIRROR POLISHED                                                             |
| INTERNAL SURFACE BOWL                | FINE BRUSHED                                                                |
| EXTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL ROUGHNESS                   | Ra<0.8 µm ( Ra<32 µin )                                                     |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| O3 x 10"               | 357  | 310  | 206  | 816  | 290  | 7.3               |
| O3 x 20"               | 357  | 310  | 206  | 1065 | 540  | 12.6              |
| O3 x 30"               | 357  | 310  | 206  | 1314 | 790  | 17.8              |
| O3 x 40"               | 357  | 310  | 206  | 1564 | 1040 | 23.1              |

| Clamp                  |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | L   | Q   | A          | L   | Q   |
| 1.5" (38.1mm x 1.65mm) | 345           | 310 | 147 | 345        | 385 | 223 |

| DIN 11851 Male Part |               |     |     |            |     |     |
|---------------------|---------------|-----|-----|------------|-----|-----|
|                     | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |
| DN40                | 345           | 351 | 168 | 345        | 426 | 243 |

| Butt Weld ASME BPE     |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | B   | Q   | A          | B   | Q   |
| 1.5" (38.1mm x 1.65mm) | 345           | 285 | 135 | 345        | 360 | 210 |

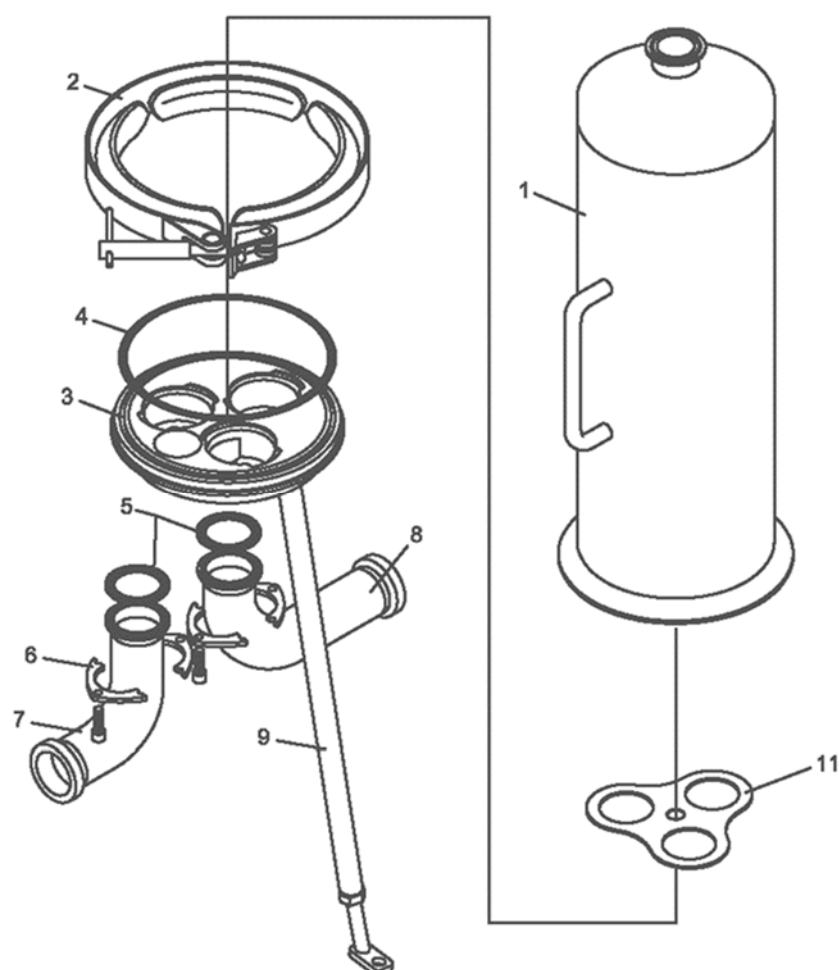
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| O3 x 10"                  | 4.0              | 17.4                  | 80x30x37          | 23.0                     |
| O3 x 20"                  | 6.0              | 19.4                  | 104x30x37         | 25.0                     |
| O3 x 30"                  | 8.0              | 21.4                  | 130x30x37         | 27.0                     |
| O3 x 40"                  | 10.0             | 23.4                  | 155x30x37         | 29.0                     |

## Please Note

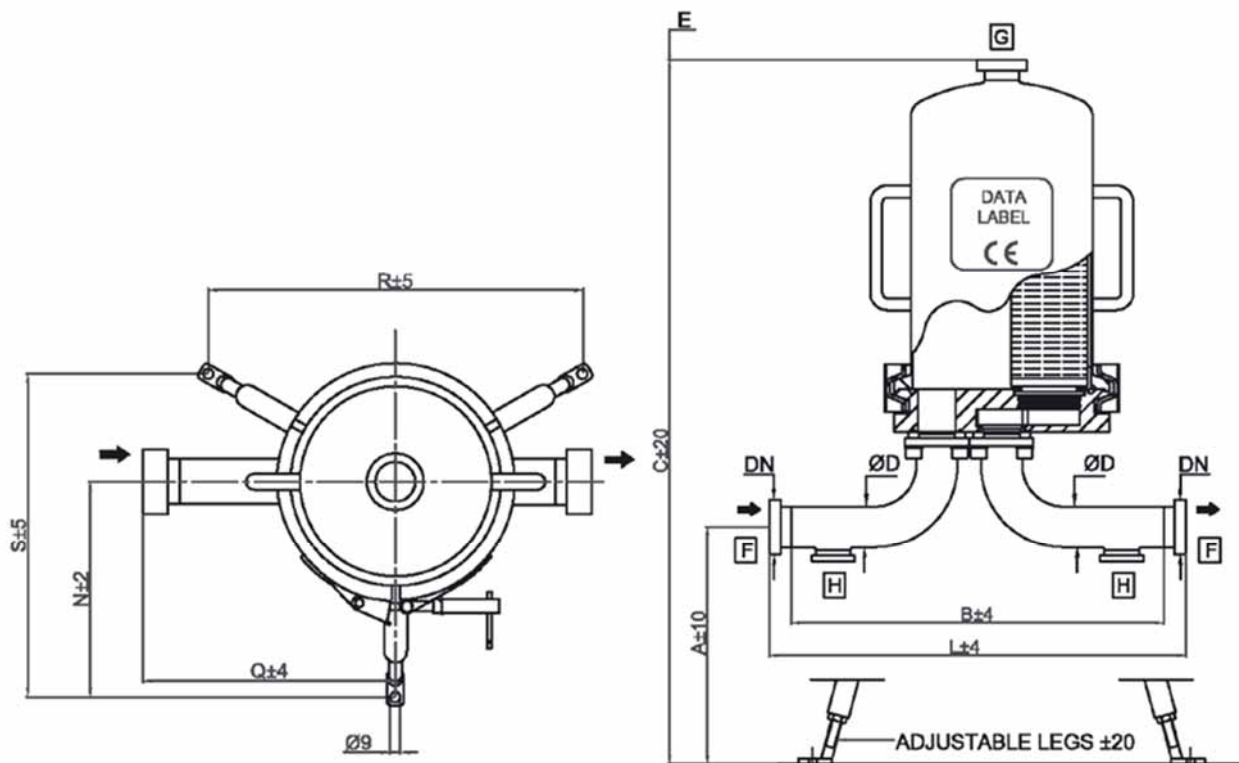
In filter housings with a flange connection at the in- and outlet e.g. DIN-EN1092-1, ANSI, etc. the bends will be welded directly to the baseplate, instead of the standard flange connection described in the detailed

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" |
| 810032GXXAGG040L                    | 03                | 20"         | DIN 11851 Male Part | DN 40            | Silicone | x                 | x                  |
| 810032HXXAGG040L                    | 03                | 20"         | DIN 11851 Male Part | DN 40            | EPDM     | x                 | x                  |
| 810032GXXEGG040L                    | 03                | 20"         | DIN 11851 Male Part | DN 40            | Silicone | x                 | -                  |
| 810032HXXEGG040L                    | 03                | 20"         | DIN 11851 Male Part | DN 40            | EPDM     | x                 | -                  |
| 810032GXXATT015L                    | 03                | 20"         | TC                  | 1.5"             | Silicone | x                 | x                  |
| 810032HXXATT015L                    | 03                | 20"         | TC                  | 1.5"             | EPDM     | x                 | x                  |
| 810032GXXETT015L                    | 03                | 20"         | TC                  | 1.5"             | Silicone | x                 | -                  |
| 810032HXXETT015L                    | 03                | 20"         | TC                  | 1.5"             | EPDM     | x                 | -                  |
| 810032GXXASS015L                    | 03                | 20"         | Welding Stubs       | 38.1 x 1.65      | Silicone | x                 | x                  |
| 810032HXXASS015L                    | 03                | 20"         | Welding Stubs       | 38.1 x 1.65      | EPDM     | x                 | x                  |
| 810032GXXESS015L                    | 03                | 20"         | Welding Stubs       | 38.1 x 1.65      | Silicone | x                 | -                  |
| 810032HXXESS015L                    | 03                | 20"         | Welding Stubs       | 38.1 x 1.65      | EPDM     | x                 | -                  |
| 810033GXXAGG040L                    | 03                | 30"         | DIN 11851 Male Part | DN 40            | Silicone | x                 | x                  |
| 810033HXXAGG040L                    | 03                | 30"         | DIN 11851 Male Part | DN 40            | EPDM     | x                 | x                  |
| 810033GXXEGG040L                    | 03                | 30"         | DIN 11851 Male Part | DN 40            | Silicone | x                 | -                  |
| 810033HXXEGG040L                    | 03                | 30"         | DIN 11851 Male Part | DN 40            | EPDM     | x                 | -                  |
| 810033GXXATT015L                    | 03                | 30"         | TC                  | 1.5"             | Silicone | x                 | x                  |
| 810033HXXATT015L                    | 03                | 30"         | TC                  | 1.5"             | EPDM     | x                 | x                  |
| 810033GXXETT015L                    | 03                | 30"         | TC                  | 1.5"             | Silicone | x                 | -                  |
| 810033HXXETT015L                    | 03                | 30"         | TC                  | 1.5"             | EPDM     | x                 | -                  |
| 810033GXXASS015L                    | 03                | 30"         | Welding Stubs       | 38.1 x 1.65      | Silicone | x                 | x                  |
| 810033HXXASS015L                    | 03                | 30"         | Welding Stubs       | 38.1 x 1.65      | EPDM     | x                 | x                  |
| 810033GXXESS015L                    | 03                | 30"         | Welding Stubs       | 38.1 x 1.65      | Silicone | x                 | -                  |
| 810033HXXESS015L                    | 03                | 30"         | Welding Stubs       | 38.1 x 1.65      | EPDM     | x                 | -                  |
| 810034GXXAGG040L                    | 03                | 40"         | DIN 11851 Male Part | DN 40            | Silicone | x                 | x                  |
| 810034HXXAGG040L                    | 03                | 40"         | DIN 11851 Male Part | DN 40            | EPDM     | x                 | x                  |
| 810034GXXEGG040L                    | 03                | 40"         | DIN 11851 Male Part | DN 40            | Silicone | x                 | -                  |
| 810034HXXEGG040L                    | 03                | 40"         | DIN 11851 Male Part | DN 40            | EPDM     | x                 | -                  |
| 810034GXXATT015L                    | 03                | 40"         | TC                  | 1.5"             | Silicone | x                 | x                  |
| 810034HXXATT015L                    | 03                | 40"         | TC                  | 1.5"             | EPDM     | x                 | x                  |
| 810034GXXETT015L                    | 03                | 40"         | TC                  | 1.5"             | Silicone | x                 | -                  |
| 810034HXXETT015L                    | 03                | 40"         | TC                  | 1.5"             | EPDM     | x                 | -                  |
| 810034GXXASS015L                    | 03                | 40"         | Welding Stubs       | 38.1 x 1.65      | Silicone | x                 | x                  |
| 810034HXXASS015L                    | 03                | 40"         | Welding Stubs       | 38.1 x 1.65      | EPDM     | x                 | x                  |
| 810034GXXESS015L                    | 03                | 40"         | Welding Stubs       | 38.1 x 1.65      | Silicone | x                 | -                  |
| 810034HXXESS015L                    | 03                | 40"         | Welding Stubs       | 38.1 x 1.65      | EPDM     | x                 | -                  |

| Spare Parts |                         |           |            |      |
|-------------|-------------------------|-----------|------------|------|
| Pos.        | Description             | Material  | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L | -          | 1    |
| 2           | V-Band                  | AISI 304  | 8ZSLA-0003 | 1    |
| 3           | Cartridge Plate         | AISI 316L | -          | 1    |
| 4           | O-Ring d=5.35 ID=158.11 | Silicone  | 8ZDSC-0002 | 1    |
| 5           | Gasket Clamp 1.5"       | PTFE      | 8ZDPC-0003 | 2    |
| 6           | Bend Flange             | AISI 304  | -          | 4    |
| 7           | Inlet Bend              | AISI 316L | -          | 1    |
| 8           | Outlet Bend             | AISI 316L | -          | 1    |
| 9           | Complete Leg            | AISI 304  | -          | 3    |
| 11          | Protection Plate        | AISI 316L | -          | 1    |







## DATA LABEL EXAMPLE



### FILTER HOUSING

PART NUMBER

MODEL

TYPE

CARTRIDGE NO. x HIGH (inch)

CATEGORY 2014/68/EU

VOLUME LITRES (V)

PRESSURE(PS) min-max at TS= ... °C bar

PRESSURE(PS) min-max at TS= ... °C bar

TEST PRESSURE(PT) bar

PED FLUID GROUP (2014/68/EU) GR.2 - LIQ/GAS

LIMITED TO CLEAN IN PLACE (CIP)

PRESSURE(PS) min-max at TS= ... °C bar

PED FLUID GROUP (2014/68/EU) GR.1 - LIQ

VESSEL MATERIAL

YEAR OF MANUFACTURE

VESSEL NUMBER

CE 0948



## TECHNICAL DATA

|                                         |                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------|
| SERIES                                  | VHP                                                                       |
| NO. CARTRIDGES                          | 05                                                                        |
| ATEX REGULATION                         | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                             | EN 13445                                                                  |
| SERVICE CONDITIONS                      | Gr.2 - LIQ,GAS                                                            |
| PED FLUID GROUP                         |                                                                           |
| PRESSURE (PS) min-max bar (psi)         | -1 +10 bar ( -14.5 + 145 psi )                                            |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +40°C ( -4 +104 °F )                                                  |
| PRESSURE (PS) min-max bar (psi)         | -1 +4 bar ( -14.5 +58 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +150°C ( -4° +302°F )                                                 |
| LIMITED TO CLEAN IN PLACE (CIP)         |                                                                           |
| PED FLUID GROUP                         | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)         | +0 +3 bar ( +0 +43.5 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F)        | +10 +80°C ( +50° +176°F )                                                 |
| TEST PRESSURE (PT)                      | 20 bar ( 290 psi )                                                        |
| VESSEL MATERIAL                         | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL             | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL                   | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL                   | FINE BRUSHED                                                              |
| EXTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL ROUGHNESS                      | Ra<0.8 µm ( Ra<32 µin )                                                   |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 05 x 10"               | 400  | 347  | 231  | 825  | 290  | 11                |
| 05 x 20"               | 400  | 347  | 231  | 1075 | 540  | 20                |
| 05 x 30"               | 400  | 347  | 231  | 1325 | 790  | 29.1              |
| 05 x 40"               | 400  | 347  | 231  | 1575 | 1040 | 38.2              |

| Clamp                  |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | L   | Q   | A          | L   | Q   |
| 2.0" (50.8mm x 1.65mm) | 315           | 378 | 196 | 315        | 445 | 263 |

| DIN 11851 Male Part |               |     |     |            |     |     |
|---------------------|---------------|-----|-----|------------|-----|-----|
|                     | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |
| DN50                | 315           | 423 | 218 | 315        | 490 | 285 |

| Butt Weld ASME BPE     |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | B   | Q   | A          | B   | Q   |
| 2.0" (50.8mm x 1.65mm) | 315           | 353 | 183 | 315        | 420 | 250 |

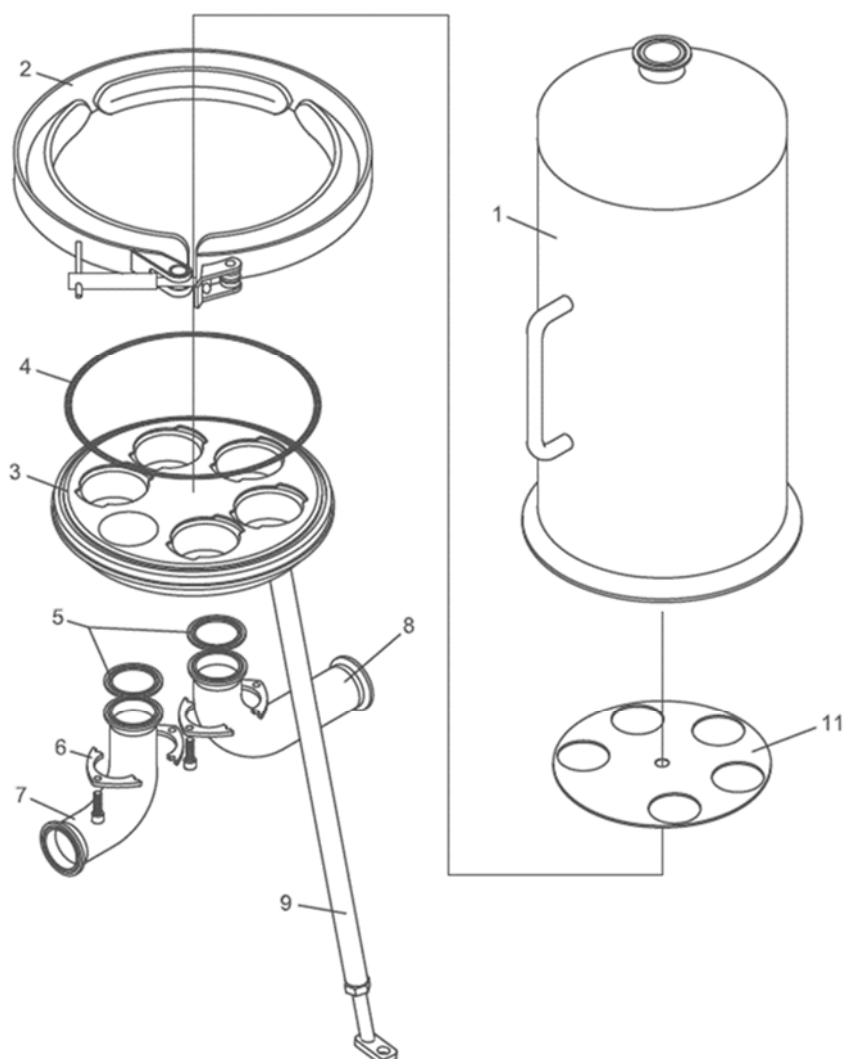
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 05 x 10"                  | 5.3              | 11.0                  | 72x35x37          | 24.0                     |
| 05 x 20"                  | 7.5              | 20.0                  | 97x35x37          | 26.0                     |
| 05 x 30"                  | 10.2             | 22.0                  | 122x35x37         | 28.0                     |
| 05 x 40"                  | 12.9             | 24.0                  | 147x35x37         | 30.0                     |

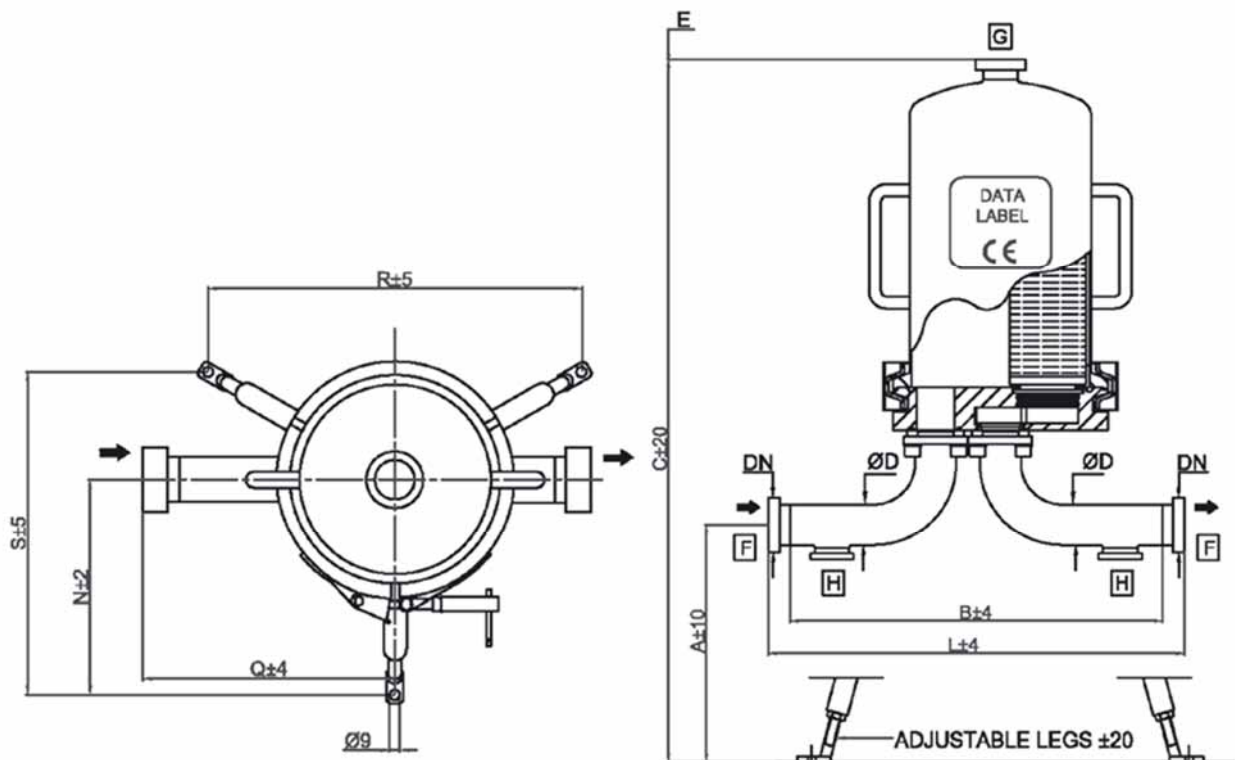
#### Please Note

In filter housings with a flange connection at the in- and outlet e.g. DIN-EN1092-1, ANSI, etc. the bends will be welded directly to the baseplate, instead of the standard flange connection described in the detailed

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" |
| 810052GXXAGG050L                    | 05                | 20"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | x                  |
| 810052HXXAGG050L                    | 05                | 20"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | x                  |
| 810052GXXEGG050L                    | 05                | 20"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | -                  |
| 810052HXXEGG050L                    | 05                | 20"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | -                  |
| 810052GXXATT020L                    | 05                | 20"         | TC                  | 2"               | Silicone | x                 | x                  |
| 810052HXXATT020L                    | 05                | 20"         | TC                  | 2"               | EPDM     | x                 | x                  |
| 810052GXXETT020L                    | 05                | 20"         | TC                  | 2"               | Silicone | x                 | -                  |
| 810052HXXETT020L                    | 05                | 20"         | TC                  | 2"               | EPDM     | x                 | -                  |
| 810052GXXASS020L                    | 05                | 20"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | x                  |
| 810052HXXASS020L                    | 05                | 20"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | x                  |
| 810052GXXESS020L                    | 05                | 20"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | -                  |
| 810052HXXESS020L                    | 05                | 20"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | -                  |
| 810053GXXAGG050L                    | 05                | 30"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | x                  |
| 810053HXXAGG050L                    | 05                | 30"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | x                  |
| 810053GXXEGG050L                    | 05                | 30"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | -                  |
| 810053HXXEGG050L                    | 05                | 30"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | -                  |
| 810053GXXATT020L                    | 05                | 30"         | TC                  | 2"               | Silicone | x                 | x                  |
| 810053HXXATT020L                    | 05                | 30"         | TC                  | 2"               | EPDM     | x                 | x                  |
| 810053GXXETT020L                    | 05                | 30"         | TC                  | 2"               | Silicone | x                 | -                  |
| 810053HXXETT020L                    | 05                | 30"         | TC                  | 2"               | EPDM     | x                 | -                  |
| 810053GXXASS020L                    | 05                | 30"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | x                  |
| 810053HXXASS020L                    | 05                | 30"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | x                  |
| 810053GXXESS020L                    | 05                | 30"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | -                  |
| 810053HXXESS020L                    | 05                | 30"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | -                  |
| 810054GXXAGG050L                    | 05                | 40"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | x                  |
| 810054HXXAGG050L                    | 05                | 40"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | x                  |
| 810054GXXEGG050L                    | 05                | 40"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | -                  |
| 810054HXXEGG050L                    | 05                | 40"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | -                  |
| 810054GXXATT020L                    | 05                | 40"         | TC                  | 2"               | Silicone | x                 | x                  |
| 810054HXXATT020L                    | 05                | 40"         | TC                  | 2"               | EPDM     | x                 | x                  |
| 810054GXXETT020L                    | 05                | 40"         | TC                  | 2"               | Silicone | x                 | -                  |
| 810054HXXETT020L                    | 05                | 40"         | TC                  | 2"               | EPDM     | x                 | -                  |
| 810054GXXASS020L                    | 05                | 40"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | x                  |
| 810054HXXASS020L                    | 05                | 40"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | x                  |
| 810054GXXESS020L                    | 05                | 40"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | -                  |
| 810054HXXESS020L                    | 05                | 40"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | -                  |

| Spare Parts |                         |           |            |      |
|-------------|-------------------------|-----------|------------|------|
| Pos.        | Description             | Material  | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L | -          | 1    |
| 2           | V-Band                  | AISI 304  | 8ZSLA-0004 | 1    |
| 3           | Cartridge Plate         | AISI 316L | -          | 1    |
| 4           | O-Ring d=5.35 ID=208.91 | Silicone  | 8ZDSC-0004 | 1    |
| 5           | Gasket Clamp 2"         | PTFE      | 8ZDPC-0005 | 2    |
| 6           | Bend Flange             | AISI 304  | -          | 4    |
| 7           | Inlet Bend              | AISI 316L | -          | 1    |
| 8           | Outlet Bend             | AISI 316L | -          | 1    |
| 9           | Complete Leg            | AISI 304  | -          | 3    |
| 11          | Protection Plate        | AISI 316L | -          | 1    |





## DATA LABEL EXAMPLE



### FILTER HOUSING

PART NUMBER

MODEL

TYPE

CARTRIDGE NO. x HIGH (inch)

CATEGORY 2014/68/EU

VOLUME LITRES (V)

PRESSURE(PS) min-max at TS= ... °C bar

PRESSURE(PS) min-max at TS= ... °C bar

TEST PRESSURE(PT) bar

PED FLUID GROUP (2014/68/EU)

GR.2 - LIQ/GAS

LIMITED TO CLEAN IN PLACE (CIP)

PRESSURE(PS) min-max at TS= ... °C bar

PED FLUID GROUP (2014/68/EU)

GR.1 - LIQ

VESSEL MATERIAL

YEAR OF MANUFACTURE

VESSEL NUMBER

CE 0948



### TECHNICAL DATA

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| SERIES                           | VHP                                                                          |
| NO. CARTRIDGES                   | 08                                                                           |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3....T6 -/Gb X<br>II -/2 D Ex h IIIC 150°C....85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                     |
| SERVICE CONDITIONS               | Gr.2 - LIQ,GAS                                                               |
| PED FLUID GROUP                  |                                                                              |
| PRESSURE (PS) min-max bar (psi)  | -1 +10 bar ( -14.5 + 145 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F) | -20 +40°C ( -4 +104 °F )                                                     |
| PRESSURE (PS) min-max bar (psi)  | -1 +4 bar ( -14.5 +58 psi )                                                  |
| TEMPERATURE (TS) min-max °C (°F) | -20 +150°C ( -4° +302°F )                                                    |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                              |
| PED FLUID GROUP                  | Gr.1 - LIQ                                                                   |
| PRESSURE (PS) min-max bar (psi)  | +0 +3 bar ( +0 +43.5 psi )                                                   |
| TEMPERATURE (TS) min-max °C (°F) | +10 +80°C ( +50° +176°F )                                                    |
| TEST PRESSURE (PT)               | 20 bar ( 290 psi )                                                           |
| VESSEL MATERIAL                  | 316L / 1.4404                                                                |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                       |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                              |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                                 |
| EXTERNAL SURFACE                 |                                                                              |
| BASEPLATE AND BENDS              | MECHANICAL POLISHED                                                          |
| INTERNAL SURFACE                 |                                                                              |
| BASEPLATE AND BENDS              | MECHANICAL POLISHED                                                          |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )                                                      |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 08 x 10"               | 448  | 388  | 259  | 846  | 290  | 21.3              |
| 08 x 20"               | 448  | 388  | 259  | 1096 | 540  | 35.5              |
| 08 x 30"               | 448  | 388  | 259  | 1346 | 790  | 48.7              |
| 08 x 40"               | 448  | 388  | 259  | 1596 | 1040 | 63.9              |

| Clamp                  |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | L   | Q   | A          | L   | Q   |
| 2.0" (50.8mm x 1.65mm) | 315           | 404 | 222 | 315        | 471 | 289 |

| DIN 11851 Male Part |               |     |     |            |     |     |
|---------------------|---------------|-----|-----|------------|-----|-----|
|                     | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |
| DN50                | 315           | 449 | 244 | 315        | 516 | 311 |

| Butt Weld ASME BPE     |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | B   | Q   | A          | B   | Q   |
| 2.0" (50.8mm x 1.65mm) | 315           | 379 | 209 | 315        | 446 | 273 |

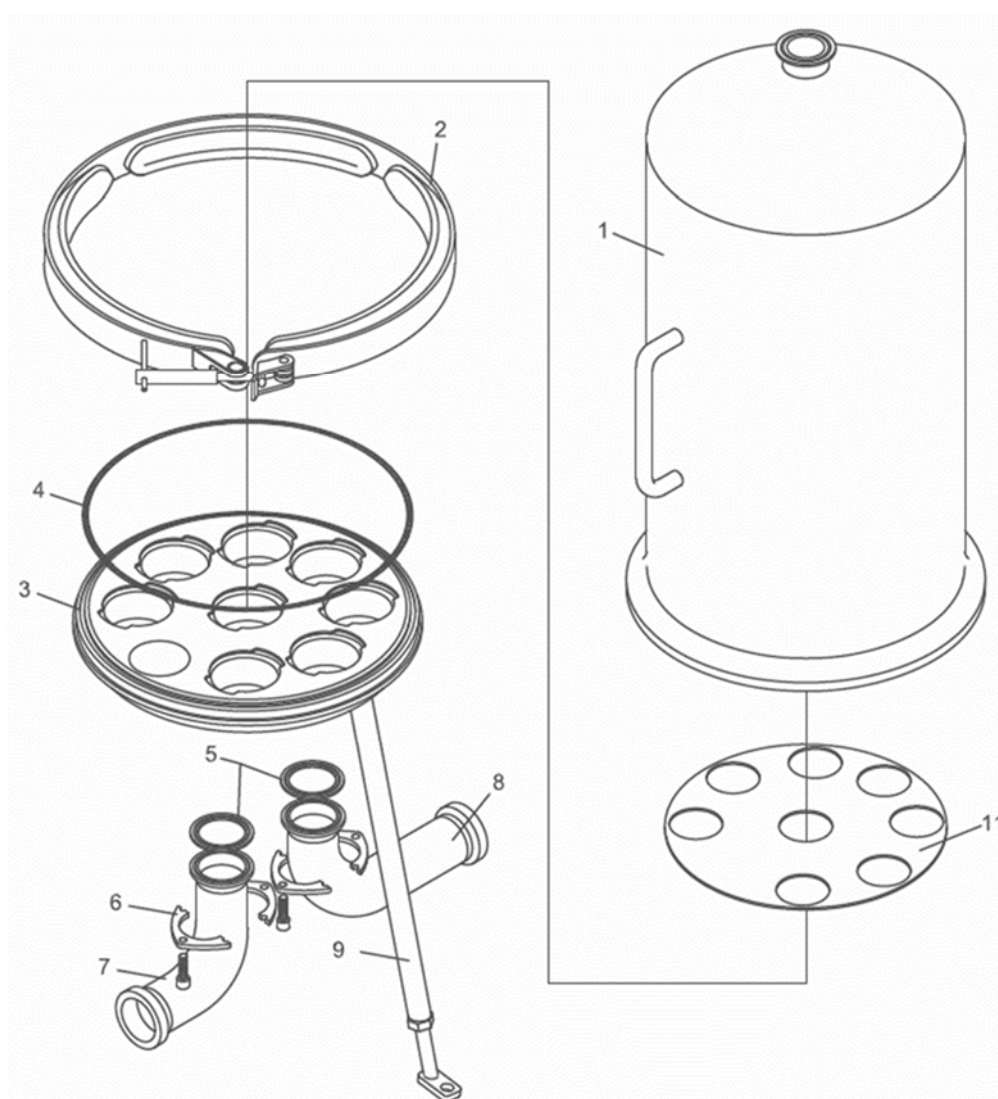
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 08 x 10"                  | 7.0              | 27.0                  | 75x40x42          | 30.0                     |
| 08 x 20"                  | 10.0             | 30.0                  | 100x40x42         | 34.0                     |
| 08 x 30"                  | 13.0             | 3.0                   | 125x40x42         | 38.0                     |
| 08 x 40"                  | 16.0             | 36.0                  | 150x40x42         | 42.0                     |

#### Please Note

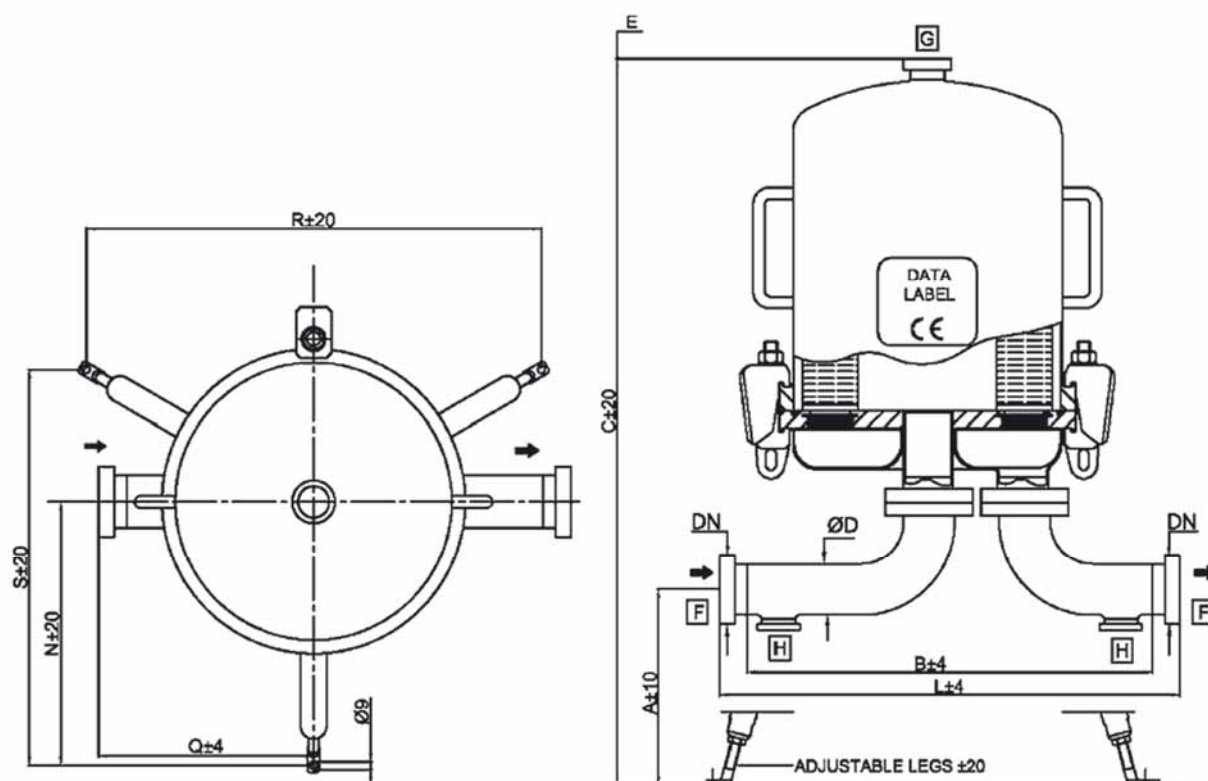
In filter housings with a flange connection at the in- and outlet e.g. DIN-EN1092-1, ANSI, etc. the bends will be welded directly to the baseplate, instead of the standard flange connection described in the detailed

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" |
| 810082GXXAGG050L                    | 08                | 20"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | x                  |
| 810082HXXAGG080L                    | 08                | 20"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | x                  |
| 810082GXXEGG050L                    | 08                | 20"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | -                  |
| 810082HXXEGG050L                    | 08                | 20"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | -                  |
| 810082GXXATT020L                    | 08                | 20"         | TC                  | 2"               | Silicone | x                 | x                  |
| 810082HXXATT020L                    | 08                | 20"         | TC                  | 2"               | EPDM     | x                 | x                  |
| 810082GXXETT020L                    | 08                | 20"         | TC                  | 2"               | Silicone | x                 | -                  |
| 810082HXXETT020L                    | 08                | 20"         | TC                  | 2"               | EPDM     | x                 | -                  |
| 810082GXXASS020L                    | 08                | 20"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | x                  |
| 810082HXXASS020L                    | 08                | 20"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | x                  |
| 810082GXXESS020L                    | 08                | 20"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | -                  |
| 810082HXXESS020L                    | 08                | 20"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | -                  |
| 810083GXXAGG050L                    | 08                | 30"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | x                  |
| 810083HXXAGG050L                    | 08                | 30"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | x                  |
| 810083GXXEGG050L                    | 08                | 30"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | -                  |
| 810083HXXEGG050L                    | 08                | 30"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | -                  |
| 810083GXXATT020L                    | 08                | 30"         | TC                  | 2"               | Silicone | x                 | x                  |
| 810083HXXATT020L                    | 08                | 30"         | TC                  | 2"               | EPDM     | x                 | x                  |
| 810083GXXETT020L                    | 08                | 30"         | TC                  | 2"               | Silicone | x                 | -                  |
| 810083HXXETT020L                    | 08                | 30"         | TC                  | 2"               | EPDM     | x                 | -                  |
| 810083GXXASS020L                    | 08                | 30"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | x                  |
| 810083HXXASS020L                    | 08                | 30"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | x                  |
| 810083GXXESS020L                    | 08                | 30"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | -                  |
| 810083HXXESS020L                    | 08                | 30"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | -                  |
| 810084GXXAGG050L                    | 08                | 40"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | x                  |
| 810084HXXAGG050L                    | 08                | 40"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | x                  |
| 810084GXXEGG050L                    | 08                | 40"         | DIN 11851 Male Part | DN 50            | Silicone | x                 | -                  |
| 810084HXXEGG050L                    | 08                | 40"         | DIN 11851 Male Part | DN 50            | EPDM     | x                 | -                  |
| 810084GXXATT020L                    | 08                | 40"         | TC                  | 2"               | Silicone | x                 | x                  |
| 810084HXXATT020L                    | 08                | 40"         | TC                  | 2"               | EPDM     | x                 | x                  |
| 810084GXXETT020L                    | 08                | 40"         | TC                  | 2"               | Silicone | x                 | -                  |
| 810084HXXETT020L                    | 08                | 40"         | TC                  | 2"               | EPDM     | x                 | -                  |
| 810084GXXASS020L                    | 08                | 40"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | x                  |
| 810084HXXASS020L                    | 08                | 40"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | x                  |
| 810084GXXESS020L                    | 08                | 40"         | Welding Stubs       | 50.8 x 1.65      | Silicone | x                 | -                  |
| 810084HXXESS020L                    | 08                | 40"         | Welding Stubs       | 50.8 x 1.65      | EPDM     | x                 | -                  |

| Spare Parts |                         |           |            |      |
|-------------|-------------------------|-----------|------------|------|
| Pos.        | Description             | Material  | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L | -          | 1    |
| 2           | V-Band                  | AISI 304  | 8ZSLA-0005 | 1    |
| 3           | Cartridge Plate         | AISI 316L | -          | 1    |
| 4           | O-Ring d=5.35 ID=266.06 | Silicone  | 8ZDSC-0006 | 1    |
| 5           | Gasket Clamp            | PTFE      | -          | 2    |
| 6           | Bend Flange             | AISI 304  | -          | 4    |
| 7           | Inlet Bend              | AISI 316L | -          | 1    |
| 8           | Outlet Bend             | AISI 316L | -          | 1    |
| 9           | Complete Leg            | AISI 304  | -          | 3    |
| 11          | Protection Plate        | AISI 316L | -          | 1    |







## DATA LABEL EXAMPLE



### FILTER HOUSING

PART NUMBER

MODEL

TYPE

CARTRIDGE NO. x HIGH (inch)

CATEGORY 2014/68/EU

VOLUME LITRES (V)

PRESSURE(PS) min-max at TS= ... °C bar

PRESSURE(PS) min-max at TS= ... °C bar

TEST PRESSURE(PT) bar

PED FLUID GROUP (2014/68/EU) GR.2 - LIQ/GAS

LIMITED TO CLEAN IN PLACE (CIP)

PRESSURE(PS) min-max at TS= ... °C bar

PED FLUID GROUP (2014/68/EU) GR.1 - LIQ

VESSEL MATERIAL

YEAR OF MANUFACTURE

VESSEL NUMBER



### TECHNICAL DATA

|                                         |                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------|
| SERIES                                  | VHP                                                                         |
| NO. CARTRIDGES                          | 12                                                                          |
| ATEX REGULATION                         | II -/2 G Ex h IIC T3....T6 -/Gb X<br>II -/2 D Ex h IIC 150°C....85°C -/Db X |
| DESIGN CODE                             | EN 13445                                                                    |
| SERVICE CONDITIONS                      | Gr.2 - LIQ,GAS                                                              |
| PED FLUID GROUP                         |                                                                             |
| PRESSURE (PS) min-max bar (psi)         | -1 +10 bar ( -14.5 + 145 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +40°C ( -4 +104 °F )                                                    |
| PRESSURE (PS) min-max bar (psi)         | -1 +4 bar ( -14.5 +58 psi )                                                 |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +150°C ( -4° +302°F )                                                   |
| LIMITED TO CLEAN IN PLACE (CIP)         |                                                                             |
| PED FLUID GROUP                         | Gr.1 - LIQ                                                                  |
| PRESSURE (PS) min-max bar (psi)         | +0 +3 bar ( +0 +43.5 psi )                                                  |
| TEMPERATURE (TS) min-max °C (°F)        | +10 +80°C ( +50° +176°F )                                                   |
| TEST PRESSURE (PT)                      | 20 bar ( 290 psi )                                                          |
| VESSEL MATERIAL                         | 316L / 1.4404                                                               |
| HOUSING AND GASKET MATERIAL             | EU 1935/2004 COMPLIANT                                                      |
| EXTERNAL SURFACE BOWL                   | MIRROR POLISHED                                                             |
| INTERNAL SURFACE BOWL                   | FINE BRUSHED                                                                |
| EXTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL ROUGHNESS                      | Ra<0.8 µm ( Ra<32 µin )                                                     |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 12 x 10"               | 425  | 410  | 279  | 930  | 290  | 41                |
| 12 x 20"               | 425  | 410  | 279  | 1180 | 540  | 66                |
| 12 x 30"               | 425  | 410  | 279  | 1430 | 790  | 88                |
| 12 x 40"               | 425  | 410  | 279  | 1680 | 1040 | 112               |

| Clamp                  |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | L   | Q   | A          | L   | Q   |
| 2.5" (63.5mm x 1.65mm) | 326           | 493 | 225 | 326        | 573 | 225 |

| DIN 11851 Male Part |               |     |     |            |     |     |
|---------------------|---------------|-----|-----|------------|-----|-----|
|                     | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |
| DN65                | 326           | 547 | 252 | 326        | 627 | 252 |

| Butt Weld ASME BPE     |               |     |     |            |     |     |
|------------------------|---------------|-----|-----|------------|-----|-----|
|                        | Without Drain |     |     | With Drain |     |     |
| Dimension [mm]         | A             | B   | Q   | A          | B   | Q   |
| 2.5" (63.5mm x 1.65mm) | 326           | 467 | 212 | 326        | 547 | 212 |

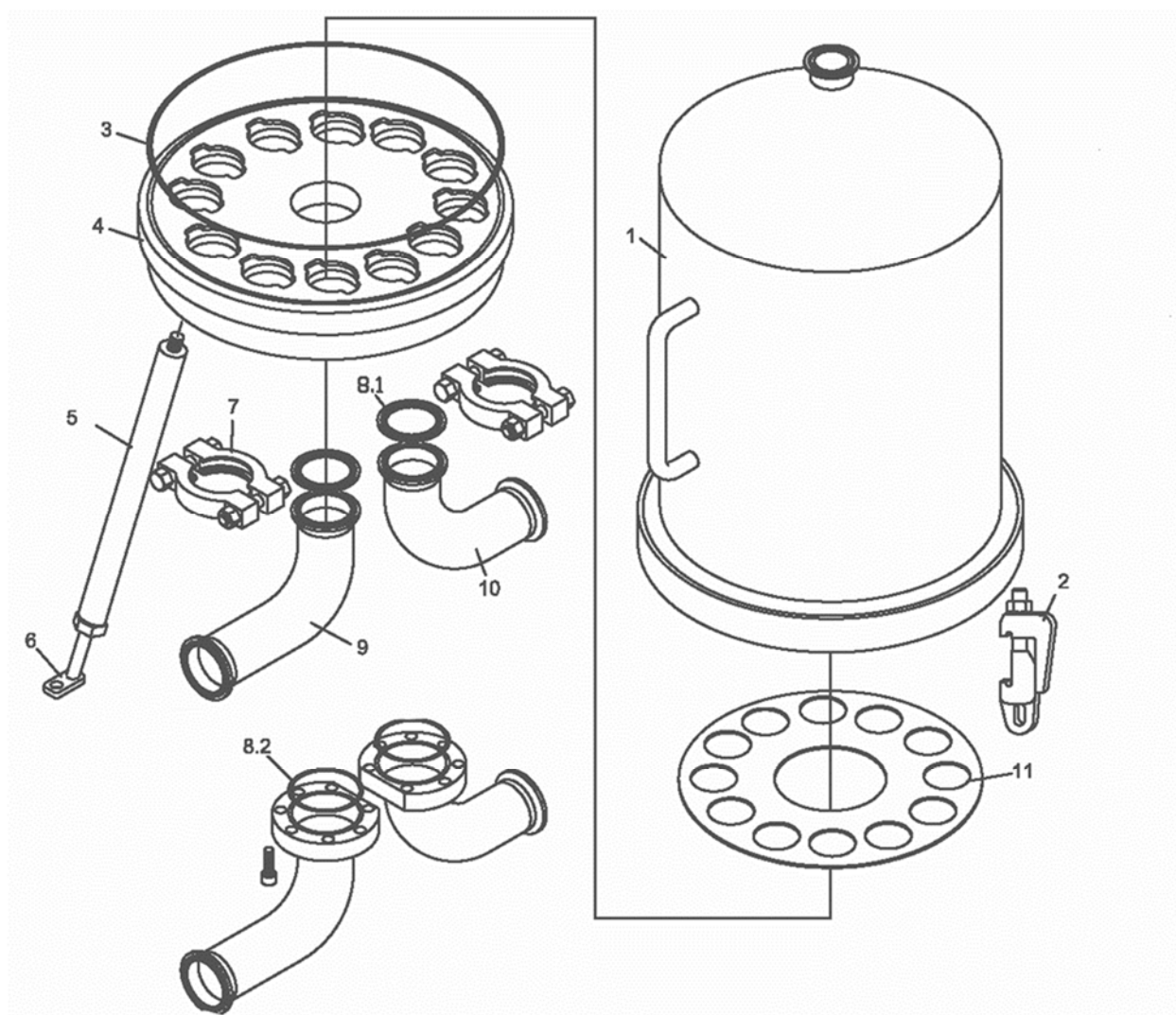
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 12 x 10"                  | 10.0             | 58.0                  | 75x53x54          | 63.0                     |
| 12 x 20"                  | 14.5             | 62.0                  | 100x53x54         | 67.0                     |
| 12 x 30"                  | 19.0             | 66.0                  | 125x53x54         | 71.0                     |
| 12 x 40"                  | 23.5             | 70.0                  | 150x53x54         | 76.0                     |

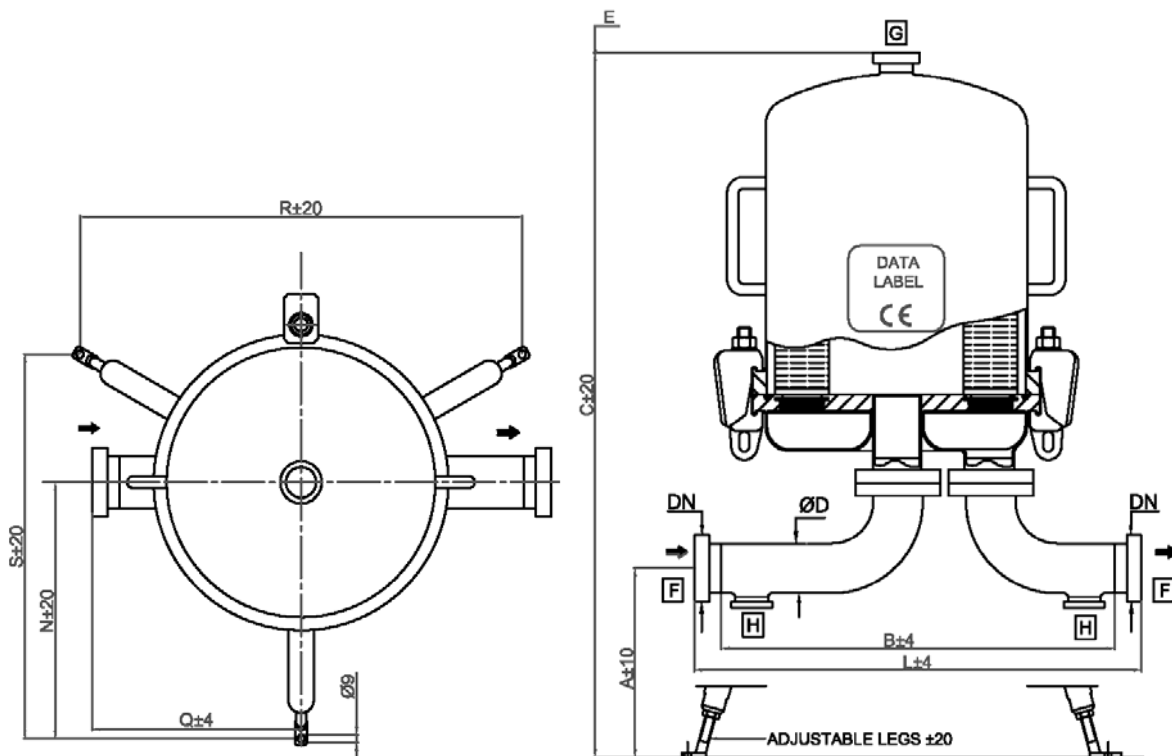
| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" |
| 810123GXXAGG065L                    | 12                | 30"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | x                  |
| 810123HXXAGG065L                    | 12                | 30"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | x                  |
| 810123GXXEGG065L                    | 12                | 30"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | -                  |
| 810123HXXEGG065L                    | 12                | 30"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | -                  |
| 810123GXXATT025L                    | 12                | 30"         | TC                  | 2.5"             | Silicone | x                 | x                  |
| 810123HXXATT025L                    | 12                | 30"         | TC                  | 2.5"             | EPDM     | x                 | x                  |
| 810123GXXETT025L                    | 12                | 30"         | TC                  | 2.5"             | Silicone | x                 | -                  |
| 810123HXXETT025L                    | 12                | 30"         | TC                  | 2.5"             | EPDM     | x                 | -                  |
| 810123GXXASS025L                    | 12                | 30"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | x                  |
| 810123HXXASS025L                    | 12                | 30"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | x                  |
| 810123GXXESS025L                    | 12                | 30"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | -                  |
| 810123HXXESS025L                    | 12                | 30"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | -                  |
| 810124GXXAGG065L                    | 12                | 40"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | x                  |
| 810124HXXAGG065L                    | 12                | 40"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | x                  |
| 810124GXXEGG065L                    | 12                | 40"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | -                  |
| 810124HXXEGG065L                    | 12                | 40"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | -                  |
| 810124GXXATT025L                    | 12                | 40"         | TC                  | 2.5"             | Silicone | x                 | x                  |
| 810124HXXATT025L                    | 12                | 40"         | TC                  | 2.5"             | EPDM     | x                 | x                  |
| 810124GXXETT025L                    | 12                | 40"         | TC                  | 2.5"             | Silicone | x                 | -                  |
| 810124HXXETT025L                    | 12                | 40"         | TC                  | 2.5"             | EPDM     | x                 | -                  |
| 810124GXXASS025L                    | 12                | 40"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | x                  |
| 810124HXXASS025L                    | 12                | 40"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | x                  |
| 810124GXXESS025L                    | 12                | 40"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | -                  |
| 810124HXXESS025L                    | 12                | 40"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | -                  |

Filter Series 810 - 12-Round Liquid Housing  
Housing Style - T-Type - Series VHP - DSH Ver. 11

Page 4 | 4

| Spare Parts |                         |            |            |      |
|-------------|-------------------------|------------|------------|------|
| Pos.        | Description             | Material   | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L  | -          | 1    |
| 2           | Bolt Clamp M16          | AISI 316Ti | 8ZSL--0009 |      |
| 3           | O-Ring d=7.00 ID=342.30 | Silicone   | 8ZDSC-0007 | 1    |
| 4           | Cartridge Plate         | AISI 316L  | -          | 1    |
| 5           | Leg                     | AISI 304   | -          | 3    |
| 6           | Foot                    | AISI 304   | -          | 3    |
| 7           | Clamp 3"                | AISI 304   | -          | 2    |
| 8.1         | Gasket Clamp 3"         | PTFE       | 8ZDPC-0008 | 2    |
| 8.2         | O-Ring d=5.34 ID=100.00 | Silicone   | -          | 2    |
| 9           | Inlet Bend              | AISI 316L  | -          | 1    |
| 10          | Outlet Bend             | AISI 316L  | -          | 1    |
| 11          | Protection Plate        | AISI 316L  | -          | 1    |





## DATA LABEL EXAMPLE

|  FILTER HOUSING                                                                                                                                                               |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PART NUMBER                                                                                                                                                                                                                                                      |                |
| MODEL                                                                                                                                                                                                                                                            |                |
| TYPE                                                                                                                                                                                                                                                             |                |
| CARTRIDGE NO. x HIGH (inch)                                                                                                                                                                                                                                      |                |
| CATEGORY 2014/68/EU                                                                                                                                                                                                                                              |                |
| VOLUME LITRES (V)                                                                                                                                                                                                                                                |                |
| PRESSURE(PS) min-max at TS= ...°C bar                                                                                                                                                                                                                            |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                           |                |
| TEST PRESSURE(PT) bar                                                                                                                                                                                                                                            |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                     | GR.2 - LIQ/GAS |
| LIMITED TO CLEAN IN PLACE (CIP)                                                                                                                                                                                                                                  |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                           |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                     | GR.1 - LIQ     |
| VESSEL MATERIAL                                                                                                                                                                                                                                                  |                |
| YEAR OF MANUFACTURE                                                                                                                                                                                                                                              |                |
| VESSEL NUMBER                                                                                                                                                                                                                                                    |                |
|  0948   |                |
|                                                                                                                                                                               |                |

## TECHNICAL DATA

|                                         |                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------|
| SERIES                                  | VHP                                                                       |
| NO. CARTRIDGES                          | 18                                                                        |
| ATEX REGULATION                         | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                             | EN 13445                                                                  |
| SERVICE CONDITIONS                      |                                                                           |
| PED FLUID GROUP                         | Gr.2 - LIQ,GAS                                                            |
| PRESSURE (PS) min-max bar (psi)         | -1 +10 bar ( -14.5 + 145 psi )                                            |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +40°C ( -4 +104 °F )                                                  |
| PRESSURE (PS) min-max bar (psi)         | -1 +4 bar ( -14.5 +58 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +150°C ( -4° +302°F )                                                 |
| LIMITED TO CLEAN IN PLACE (CIP)         |                                                                           |
| PED FLUID GROUP                         | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)         | +0 +3 bar ( +0 +43.5 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F)        | +10 +80°C ( +50° +176°F )                                                 |
| TEST PRESSURE (PT)                      | 20 bar ( 290 psi )                                                        |
| VESSEL MATERIAL                         | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL             | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL                   | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL                   | FINE BRUSHED                                                              |
| EXTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL ROUGHNESS                      | Ra<0.8 µm ( Ra<32 µin )                                                   |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 18 x 10"               | 505  | 480  | 304  | 950  | 290  | 54                |
| 18 x 20"               | 505  | 480  | 304  | 1200 | 540  | 85                |
| 18 x 30"               | 505  | 480  | 304  | 1450 | 790  | 115               |
| 18 x 40"               | 505  | 480  | 304  | 1700 | 1040 | 146               |

| Clamp                                |               |     |     |            |     |     |  |
|--------------------------------------|---------------|-----|-----|------------|-----|-----|--|
|                                      | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]                       | A             | L   | Q   | A          | L   | Q   |  |
| 2.5" (63.5mm x 1.65mm)<br>[Standard] | 325           | 509 | 225 | 325        | 589 | 225 |  |
| 3.0" (76.2mm x 1.65mm)               | 297           | 565 | 253 | 297        | 645 | 253 |  |

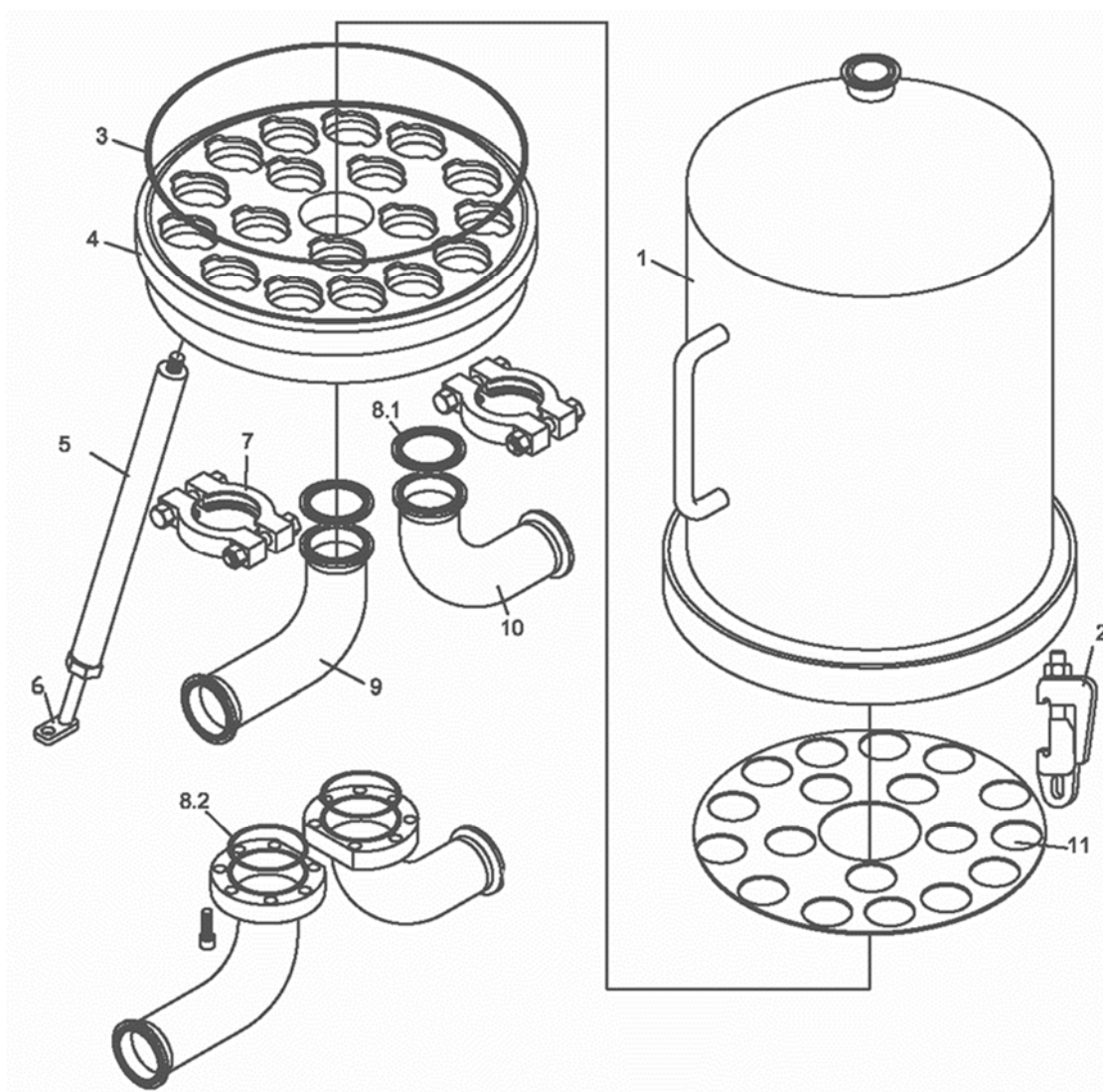
| DIN 11851 Male Part |               |     |     |            |     |     |  |
|---------------------|---------------|-----|-----|------------|-----|-----|--|
|                     | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |  |
| DN65 [Standard]     | 325           | 564 | 252 | 325        | 644 | 252 |  |
| DN80                | 297           | 620 | 276 | 316        | 700 | 276 |  |

| Butt Weld ASME BPE                   |               |     |     |            |     |     |  |
|--------------------------------------|---------------|-----|-----|------------|-----|-----|--|
|                                      | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]                       | A             | B   | Q   | A          | B   | Q   |  |
| 2.5" (63.5mm x 1.65mm)<br>[Standard] | 325           | 482 | 212 | 325        | 564 | 212 |  |
| 3.0" (76.2mm x 1.65mm)               | 297           | 540 | 240 | 297        | 620 | 240 |  |

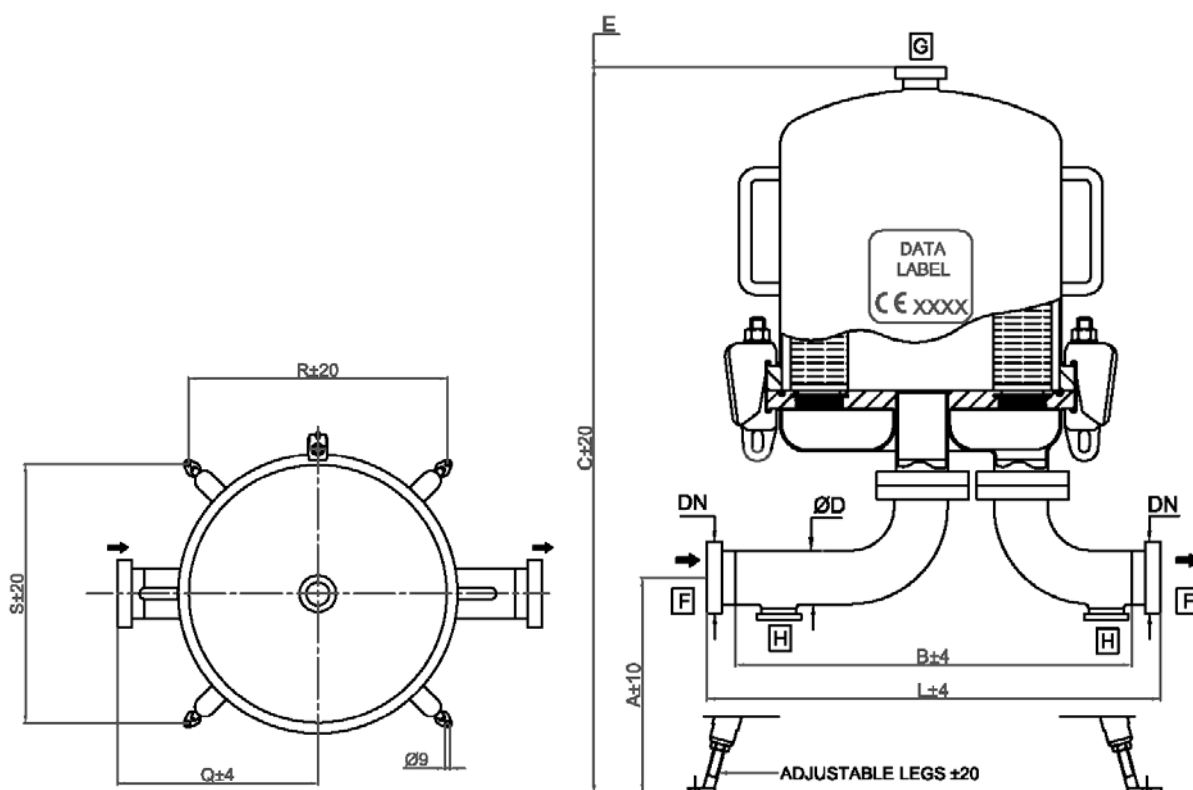
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 18 x 10"                  | 12.0             | 59.0                  | 78x58x59          | 64.0                     |
| 18 x 20"                  | 17.0             | 63.0                  | 103x58x59         | 68.0                     |
| 18 x 30"                  | 22.0             | 68.0                  | 128x58x59         | 74.0                     |
| 18 x 40"                  | 27.0             | 74.0                  | 153x58x59         | 80.0                     |

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" | Standard Dimension |
| 810183GXXAGG065L                    | 18                | 30"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | x                  | x                  |
| 810183GXXAGG080L                    | 18                | 30"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | x                  |                    |
| 810183HXXAGG065L                    | 18                | 30"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | x                  | x                  |
| 810183HXXAGG080L                    | 18                | 30"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | x                  |                    |
| 810183GXXEGG065L                    | 18                | 30"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | -                  | x                  |
| 810183GXXEGG080L                    | 18                | 30"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | -                  |                    |
| 810183HXXEGG065L                    | 18                | 30"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | -                  | x                  |
| 810183HXXEGG080L                    | 18                | 30"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | -                  |                    |
| 810183GXXATT025L                    | 18                | 30"         | TC                  | 2.5"             | Silicone | x                 | x                  | x                  |
| 810183GXXATT030L                    | 18                | 30"         | TC                  | 3.0"             | Silicone | x                 | x                  |                    |
| 810183HXXATT025L                    | 18                | 30"         | TC                  | 2.5"             | EPDM     | x                 | x                  | x                  |
| 810183HXXATT030L                    | 18                | 30"         | TC                  | 3.0"             | EPDM     | x                 | x                  |                    |
| 810183GXXETT025L                    | 18                | 30"         | TC                  | 2.5"             | Silicone | x                 | -                  | x                  |
| 810183GXXETT030L                    | 18                | 30"         | TC                  | 3.0"             | Silicone | x                 | -                  |                    |
| 810183HXXETT025L                    | 18                | 30"         | TC                  | 2.5"             | EPDM     | x                 | -                  | x                  |
| 810183HXXETT030L                    | 18                | 30"         | TC                  | 3.0"             | EPDM     | x                 | -                  |                    |
| 810183GXXASS025L                    | 18                | 30"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | x                  | x                  |
| 810183GXXASS030L                    | 18                | 30"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | x                  |                    |
| 810183HXXASS025L                    | 18                | 30"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | x                  | x                  |
| 810183HXXASS030L                    | 18                | 30"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | x                  |                    |
| 810183GXXESS025L                    | 18                | 30"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | -                  | x                  |
| 810183GXXESS030L                    | 18                | 30"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | -                  |                    |
| 810183HXXESS025L                    | 18                | 30"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | -                  | x                  |
| 810183HXXESS030L                    | 18                | 30"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | -                  |                    |
| 810184GXXAGG065L                    | 18                | 40"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | x                  | x                  |
| 810184GXXAGG080L                    | 18                | 40"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | x                  |                    |
| 810184HXXAGG065L                    | 18                | 40"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | x                  | x                  |
| 810184HXXAGG080L                    | 18                | 40"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | x                  |                    |
| 810184GXXEGG065L                    | 18                | 40"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | -                  | x                  |
| 810184GXXEGG080L                    | 18                | 40"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | -                  |                    |
| 810184HXXEGG065L                    | 18                | 40"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | -                  | x                  |
| 810184HXXEGG080L                    | 18                | 40"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | -                  |                    |
| 810184GXXATT025L                    | 18                | 40"         | TC                  | 2.5"             | Silicone | x                 | x                  | x                  |
| 810184GXXATT030L                    | 18                | 40"         | TC                  | 3.0"             | Silicone | x                 | x                  |                    |
| 810184HXXATT025L                    | 18                | 40"         | TC                  | 2.5"             | EPDM     | x                 | x                  | x                  |
| 810184HXXATT030L                    | 18                | 40"         | TC                  | 3.0"             | EPDM     | x                 | x                  |                    |
| 810184GXXETT025L                    | 18                | 40"         | TC                  | 2.5"             | Silicone | x                 | -                  | x                  |
| 810184GXXETT030L                    | 18                | 40"         | TC                  | 3.0"             | Silicone | x                 | -                  |                    |
| 810184HXXETT025L                    | 18                | 40"         | TC                  | 2.5"             | EPDM     | x                 | -                  | x                  |
| 810184HXXETT030L                    | 18                | 40"         | TC                  | 3.0"             | EPDM     | x                 | -                  |                    |
| 810184GXXASS025L                    | 18                | 40"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | x                  | x                  |
| 810184GXXASS030L                    | 18                | 40"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | x                  |                    |
| 810184HXXASS025L                    | 18                | 40"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | x                  | x                  |
| 810184HXXASS030L                    | 18                | 40"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | x                  |                    |
| 810184GXXESS025L                    | 18                | 40"         | Welding Stubs       | 63.5 x 1.65      | Silicone | x                 | -                  | x                  |
| 810184GXXESS030L                    | 18                | 40"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | -                  |                    |
| 810184HXXESS025L                    | 18                | 40"         | Welding Stubs       | 63.5 x 1.65      | EPDM     | x                 | -                  | x                  |
| 810184HXXESS030L                    | 18                | 40"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | -                  |                    |

| Spare Parts |                         |            |            |      |
|-------------|-------------------------|------------|------------|------|
| Pos.        | Description             | Material   | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L  | -          | 1    |
| 2           | Bolt Clamp M16          | AISI 316Ti | 8ZSL--0009 |      |
| 3           | O-Ring d=7.00 ID=393.10 | Silicone   | 8ZDSC-0009 | 1    |
| 4           | Cartridge Plate         | AISI 316L  |            | 1    |
| 5           | Leg                     | AISI 304   | -          | 3    |
| 6           | Foot                    | AISI 304   | -          | 3    |
| 7           | Clamp 3"                | AISI 304   | -          | 2    |
| 8.1         | Gasket Clamp 3"         | PTFE       | 8ZDPC-0008 | 2    |
| 8.2         | O-Ring d=5.34 ID=110.50 | Silicone   | 8ZDSC-0036 | 2    |
| 9           | Inlet Bend              | AISI 316L  | -          | 1    |
| 10          | Outlet Bend             | AISI 316L  | -          | 1    |
| 11          | Protection Plate        | AISI 316L  | -          | 1    |







## DATA LABEL EXAMPLE



### FILTER HOUSING

PART NUMBER

MODEL

TYPE

CARTRIDGE NO. x HIGH (inch)

CATEGORY 2014/68/EU

VOLUME LITRES (V)

PRESSURE(PS) min-max at TS= ... °C bar

PRESSURE(PS) min-max at TS= ... °C bar

TEST PRESSURE(PT) bar

PED FLUID GROUP (2014/68/EU)

GR.2 - LIQ/GAS

LIMITED TO CLEAN IN PLACE (CIP)

PRESSURE(PS) min-max at TS= ... °C bar

PED FLUID GROUP (2014/68/EU)

GR.1 - LIQ

VESSEL MATERIAL

YEAR OF MANUFACTURE

VESSEL NUMBER

CE 0948



### TECHNICAL DATA

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| SERIES                           | VHP                                                                       |
| NO. CARTRIDGES                   | 24                                                                        |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                  |
| SERVICE CONDITIONS               |                                                                           |
| PED FLUID GROUP                  | Gr.2 - LIQ,GAS                                                            |
| PRESSURE (PS) min-max bar (psi)  | -1 +10 bar ( -14.5 + 145 psi )                                            |
| TEMPERATURE (TS) min-max °C (°F) | -20 +40°C ( -4 +104 °F )                                                  |
| PRESSURE (PS) min-max bar (psi)  | -1 +4 bar ( -14.5 +58 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F) | -20 +150°C ( -4° +302°F )                                                 |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                           |
| PED FLUID GROUP                  | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)  | +0 +3 bar ( +0 +43.5 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F) | +10 +80°C ( +50° +176°F )                                                 |
| TEST PRESSURE (PT)               | 20 bar ( 290 psi )                                                        |
| VESSEL MATERIAL                  | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                              |
| EXTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )                                                   |

| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 24 x 10"               | 465  | 455  | -    | 970  | 290  | 73                |
| 24 x 20"               | 465  | 455  | -    | 1220 | 540  | 112               |
| 24 x 30"               | 465  | 455  | -    | 1470 | 790  | 151               |
| 24 x 40"               | 465  | 455  | -    | 1720 | 1040 | 190               |

| Clamp                                |               |     |     |            |     |     |  |
|--------------------------------------|---------------|-----|-----|------------|-----|-----|--|
|                                      | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]                       | A             | L   | Q   | A          | L   | Q   |  |
| 2.5" (63.5mm x 1.65mm)<br>[Standard] | 318           | 563 | 264 | 318        | 643 | 264 |  |
| 3.0" (76.2mm x 1.65mm)               | 292           | 578 | 252 | 292        | 660 | 252 |  |
| 4.0" (101.6mm x 2.11mm)              | 300           | 566 | 245 | 300        | 647 | 245 |  |

| DIN 11851 Male Part |               |     |     |            |     |     |  |
|---------------------|---------------|-----|-----|------------|-----|-----|--|
|                     | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |  |
| DN65 [Standard]     | 318           | 618 | 291 | 318        | 698 | 291 |  |
| DN80                | 292           | 634 | 295 | 331        | 715 | 295 |  |
| DN100               | 300           | 638 | 281 | 300        | 718 | 281 |  |

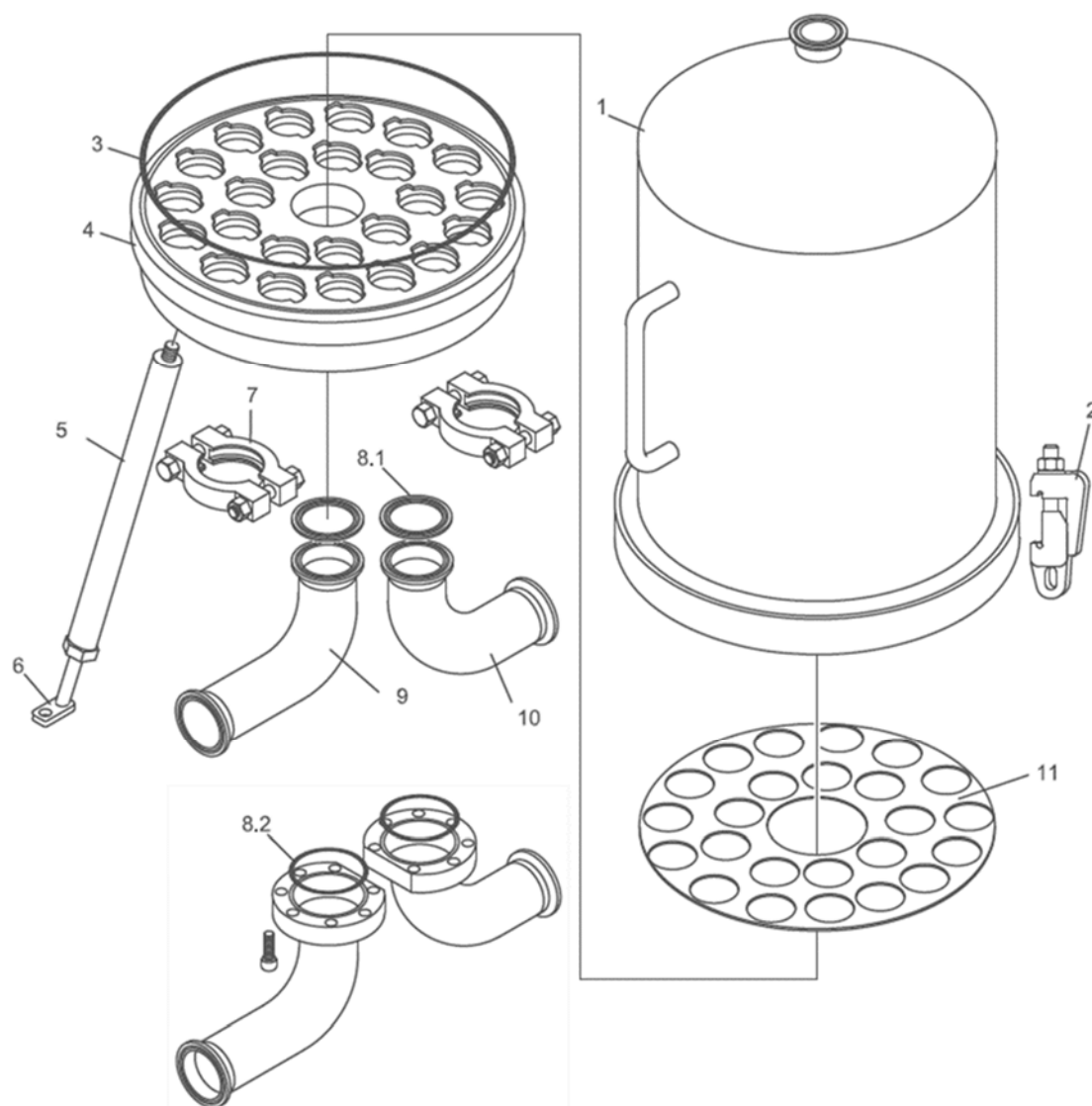
| Butt Weld ASME BPE                   |               |     |     |            |     |     |  |
|--------------------------------------|---------------|-----|-----|------------|-----|-----|--|
|                                      | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]                       | A             | B   | Q   | A          | B   | Q   |  |
| 2.5" (63.5mm x 1.65mm)<br>[Standard] | 318           | 539 | 252 | 318        | 518 | 252 |  |
| 3.0" (76.2mm x 1.65mm)               | 292           | 554 | 239 | 292        | 547 | 239 |  |
| DN4" (101.6mm x 2.11mm)              | 300           | 534 | 229 | 300        | 603 | 229 |  |

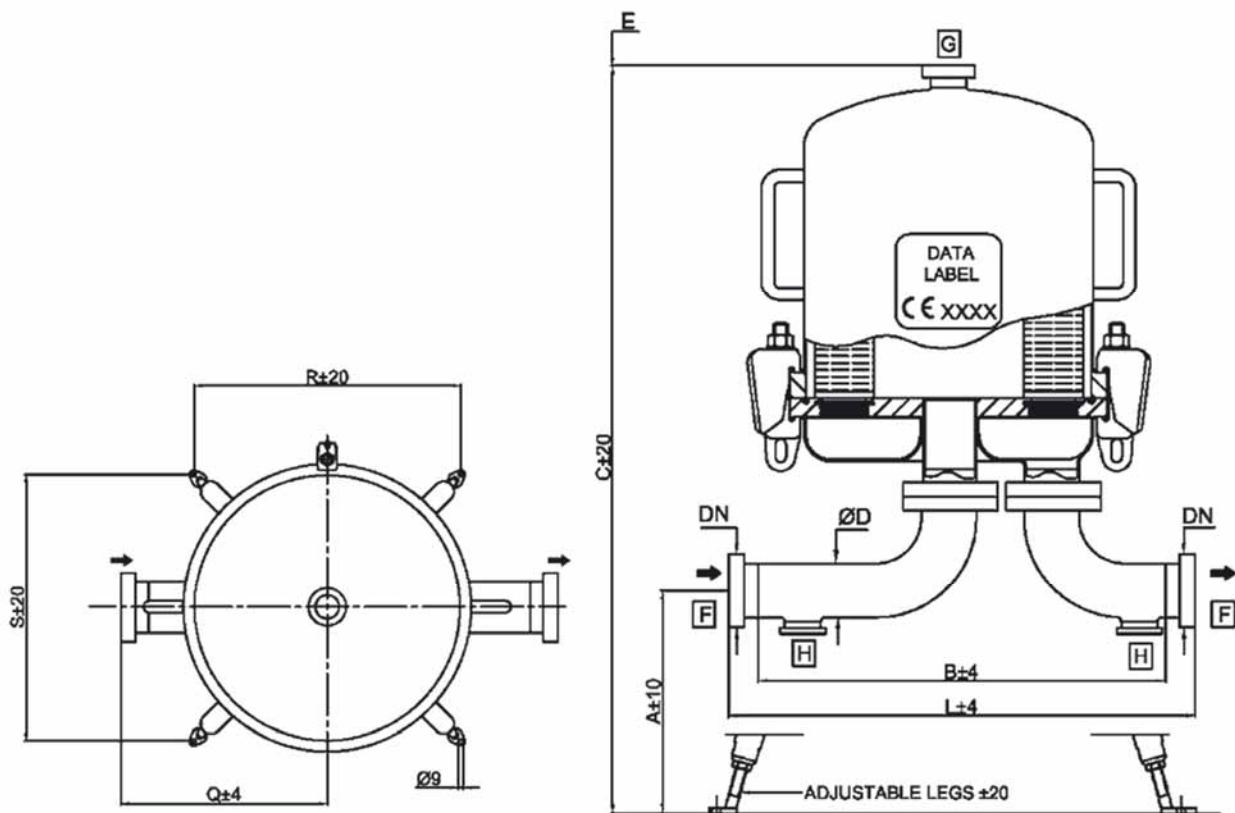
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 24 x 10"                  | 18.0             | 88.0                  | 80x63x64          | 95.0                     |
| 24 x 20"                  | 27.0             | 97.0                  | 105x63x64         | 105.0                    |
| 24 x 30"                  | 35.0             | 105.0                 | 130x63x64         | 113.0                    |
| 24 x 40"                  | 44.0             | 114.0                 | 155x63x64         | 122.0                    |

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" | Standard Dimension |
| 810243GXXAGG065L                    | 24                | 30"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | x                  | x                  |
| 810243GXXAGG080L                    | 24                | 30"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | x                  |                    |
| 810243GXXAGG100L                    | 24                | 30"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | x                  |                    |
| 810243HXXAGG065L                    | 24                | 30"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | x                  | x                  |
| 810243HXXAGG080L                    | 24                | 30"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | x                  |                    |
| 810243HXXAGG100L                    | 24                | 30"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | x                  |                    |
| 810243GXXEGG065L                    | 24                | 30"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | -                  | x                  |
| 810243GXXEGG080L                    | 24                | 30"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | -                  |                    |
| 810243GXXEGG100L                    | 24                | 30"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | -                  |                    |
| 810243HXXEGG065L                    | 24                | 30"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | -                  | x                  |
| 810243HXXEGG080L                    | 24                | 30"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | -                  |                    |
| 810243HXXEGG100L                    | 24                | 30"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | -                  |                    |
| 810243GXXATT025L                    | 24                | 30"         | TC                  | 2,5"             | Silicone | x                 | x                  | x                  |
| 810243GXXATT030L                    | 24                | 30"         | TC                  | 3"               | Silicone | x                 | x                  |                    |
| 810243GXXATT040L                    | 24                | 30"         | TC                  | 4"               | Silicone | x                 | x                  |                    |
| 810243HXXATT025L                    | 24                | 30"         | TC                  | 2,5"             | EPDM     | x                 | x                  | x                  |
| 810243HXXATT030L                    | 24                | 30"         | TC                  | 3"               | EPDM     | x                 | x                  |                    |
| 810243HXXATT040L                    | 24                | 30"         | TC                  | 4"               | EPDM     | x                 | x                  |                    |
| 810243GXXETT025L                    | 24                | 30"         | TC                  | 2,5"             | Silicone | x                 | -                  | x                  |
| 810243GXXETT030L                    | 24                | 30"         | TC                  | 3"               | Silicone | x                 | -                  |                    |
| 810243GXXETT040L                    | 24                | 30"         | TC                  | 4"               | Silicone | x                 | -                  |                    |
| 810243HXXETT025L                    | 24                | 30"         | TC                  | 2,5"             | EPDM     | x                 | -                  | x                  |
| 810243HXXETT030L                    | 24                | 30"         | TC                  | 3"               | EPDM     | x                 | -                  |                    |
| 810243HXXETT040L                    | 24                | 30"         | TC                  | 4"               | EPDM     | x                 | -                  |                    |
| 810243GXXASS025L                    | 24                | 30"         | Welding Stubs       | 63,5 x 1.65      | Silicone | x                 | x                  | x                  |
| 810243GXXASS030L                    | 24                | 30"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | x                  |                    |
| 810243GXXASS040L                    | 24                | 30"         | Welding Stubs       | 101.6 x 2.11     | Silicone | x                 | x                  |                    |
| 810243HXXASS025L                    | 24                | 30"         | Welding Stubs       | 63,5 x 1.65      | EPDM     | x                 | x                  | x                  |
| 810243HXXASS030L                    | 24                | 30"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | x                  |                    |
| 810243HXXASS040L                    | 24                | 30"         | Welding Stubs       | 101.6 x 2.11     | EPDM     | x                 | x                  |                    |
| 810243GXXESS025L                    | 24                | 30"         | Welding Stubs       | 63,5 x 1.65      | Silicone | x                 | -                  | x                  |
| 810243GXXESS030L                    | 24                | 30"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | -                  |                    |
| 810243GXXESS040L                    | 24                | 30"         | Welding Stubs       | 101.6 x 2.11     | Silicone | x                 | -                  |                    |
| 810243HXXESS025L                    | 24                | 30"         | Welding Stubs       | 63,5 x 1.65      | EPDM     | x                 | -                  | x                  |
| 810243HXXESS030L                    | 24                | 30"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | -                  |                    |
| 810243HXXESS040L                    | 24                | 30"         | Welding Stubs       | 101.6 x 2.11     | EPDM     | x                 | -                  |                    |

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" | Standard Dimension |
| 810244GXXAGG065L                    | 24                | 40"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | x                  | x                  |
| 810244GXXAGG080L                    | 24                | 40"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | x                  |                    |
| 810244GXXAGG100L                    | 24                | 40"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | x                  |                    |
| 810244HXXAGG065L                    | 24                | 40"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | x                  | x                  |
| 810244HXXAGG080L                    | 24                | 40"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | x                  |                    |
| 810244HXXAGG100L                    | 24                | 40"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | x                  |                    |
| 810244GXXEGG065L                    | 24                | 40"         | DIN 11851 Male Part | DN 65            | Silicone | x                 | -                  | x                  |
| 810244GXXEGG080L                    | 24                | 40"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | -                  |                    |
| 810244GXXEGG100L                    | 24                | 40"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | -                  |                    |
| 810244HXXEGG065L                    | 24                | 40"         | DIN 11851 Male Part | DN 65            | EPDM     | x                 | -                  | x                  |
| 810244HXXEGG080L                    | 24                | 40"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | -                  |                    |
| 810244HXXEGG100L                    | 24                | 40"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | -                  |                    |
| 810244GXXATT025L                    | 24                | 40"         | TC                  | 2,5"             | Silicone | x                 | x                  | x                  |
| 810244GXXATT030L                    | 24                | 40"         | TC                  | 3"               | Silicone | x                 | x                  |                    |
| 810244GXXATT040L                    | 24                | 40"         | TC                  | 4"               | Silicone | x                 | x                  |                    |
| 810244HXXATT025L                    | 24                | 40"         | TC                  | 2,5"             | EPDM     | x                 | x                  | x                  |
| 810244HXXATT030L                    | 24                | 40"         | TC                  | 3"               | EPDM     | x                 | x                  |                    |
| 810244HXXATT040L                    | 24                | 40"         | TC                  | 4"               | EPDM     | x                 | x                  |                    |
| 810244GXXETT025L                    | 24                | 40"         | TC                  | 2,5"             | Silicone | x                 | -                  | x                  |
| 810244GXXETT030L                    | 24                | 40"         | TC                  | 3"               | Silicone | x                 | -                  |                    |
| 810244GXXETT040L                    | 24                | 40"         | TC                  | 4"               | Silicone | x                 | -                  |                    |
| 810244HXXETT025L                    | 24                | 40"         | TC                  | 2,5"             | EPDM     | x                 | -                  | x                  |
| 810244HXXETT030L                    | 24                | 40"         | TC                  | 3"               | EPDM     | x                 | -                  |                    |
| 810244HXXETT040L                    | 24                | 40"         | TC                  | 4"               | EPDM     | x                 | -                  |                    |
| 810244GXXASS025L                    | 24                | 40"         | Welding Stubs       | 63,5 x 1.65      | Silicone | x                 | x                  | x                  |
| 810244GXXASS030L                    | 24                | 40"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | x                  |                    |
| 810244GXXASS040L                    | 24                | 40"         | Welding Stubs       | 101.6 x 2.11     | Silicone | x                 | x                  |                    |
| 810244HXXASS025L                    | 24                | 40"         | Welding Stubs       | 63,5 x 1.65      | EPDM     | x                 | x                  | x                  |
| 810244HXXASS030L                    | 24                | 40"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | x                  |                    |
| 810244HXXASS040L                    | 24                | 40"         | Welding Stubs       | 101.6 x 2.11     | EPDM     | x                 | x                  |                    |
| 810244GXXESS025L                    | 24                | 40"         | Welding Stubs       | 63,5 x 1.65      | Silicone | x                 | -                  | x                  |
| 810244GXXESS030L                    | 24                | 40"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | -                  |                    |
| 810244GXXESS040L                    | 24                | 40"         | Welding Stubs       | 101.6 x 2.11     | Silicone | x                 | -                  |                    |
| 810244HXXESS025L                    | 24                | 40"         | Welding Stubs       | 63,5 x 1.65      | EPDM     | x                 | -                  | x                  |
| 810244HXXESS030L                    | 24                | 40"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | -                  |                    |
| 810244HXXESS040L                    | 24                | 40"         | Welding Stubs       | 101.6 x 2.11     | EPDM     | x                 | -                  |                    |

| Spare Parts |                         |            |            |      |
|-------------|-------------------------|------------|------------|------|
| Pos.        | Description             | Material   | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L  | -          | 1    |
| 2           | Bolt Clamp M16          | AISI 316Ti | 8ZSL--0009 |      |
| 3           | O-Ring d=7.00 ID=443.40 | Silicone   | 8ZDSC-0010 | 1    |
| 4           | Cartridge Plate         | AISI 316L  |            | 1    |
| 5           | Leg                     | AISI 304   | -          | 4    |
| 6           | Foot                    | AISI 304   | -          | 4    |
| 7           | Clamp 4"                | AISI 304   | -          | 2    |
| 8.1         | Gasket Clamp 4"         | PTFE       | 8ZDPC-0001 | 2    |
| 8.2         | O-Ring d=5.34 ID=136.50 | Silicone   | 8ZDSC-0011 | 2    |
| 9           | Inlet Bend              | AISI 316L  | -          | 1    |
| 10          | Outlet Bend             | AISI 316L  | -          | 1    |
| 11          | Protection Plate        | AISI 316L  | -          | 1    |





## DATA LABEL EXAMPLE

|  <b>FILTER HOUSING</b>                                                                                                                                                              |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PART NUMBER                                                                                                                                                                                                                                                            |                |
| MODEL                                                                                                                                                                                                                                                                  |                |
| TYPE                                                                                                                                                                                                                                                                   |                |
| CARTRIDGE NO. x HIGH (inch)                                                                                                                                                                                                                                            |                |
| CATEGORY 2014/68/EU                                                                                                                                                                                                                                                    |                |
| VOLUME LITRES (V)                                                                                                                                                                                                                                                      |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                 |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                 |                |
| TEST PRESSURE(PT) bar                                                                                                                                                                                                                                                  |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                           | GR.2 - LIQ/GAS |
| LIMITED TO CLEAN IN PLACE (CIP)                                                                                                                                                                                                                                        |                |
| PRESSURE(PS) min-max at TS= ... °C bar                                                                                                                                                                                                                                 |                |
| PED FLUID GROUP (2014/68/EU)                                                                                                                                                                                                                                           | GR.1 - LIQ     |
| VESSEL MATERIAL                                                                                                                                                                                                                                                        |                |
| YEAR OF MANUFACTURE                                                                                                                                                                                                                                                    |                |
| VESSEL NUMBER                                                                                                                                                                                                                                                          |                |
|  <b>0948</b>   |                |
|                                                                                                   |                |

| TECHNICAL DATA                   |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| SERIES                           | VHP                                                                        |
| NO. CARTRIDGES                   | 30                                                                         |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C....85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                   |
| SERVICE CONDITIONS               |                                                                            |
| PED FLUID GROUP                  | Gr.2 - LIQ,GAS                                                             |
| PRESSURE (PS) min-max bar (psi)  | -1 +10 bar ( -14.5 + 145 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F) | -20 +40°C ( -4 +104 °F )                                                   |
| PRESSURE (PS) min-max bar (psi)  | -1 +4 bar ( -14.5 +58 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F) | -20 +150°C ( -4° +302°F )                                                  |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                            |
| PED FLUID GROUP                  | Gr.1 - LIQ                                                                 |
| PRESSURE (PS) min-max bar (psi)  | +0 +3 bar ( +0 +43.5 psi )                                                 |
| TEMPERATURE (TS) min-max °C (°F) | +10 +80°C ( +50° +176°F )                                                  |
| TEST PRESSURE (PT)               | 20 bar ( 290 psi )                                                         |
| VESSEL MATERIAL                  | 316L / 1.4404                                                              |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                     |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                            |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                               |
| EXTERNAL SURFACE                 | MECHANICAL POLISHED                                                        |
| BASEPLATE AND BENDS              |                                                                            |
| INTERNAL SURFACE                 | MECHANICAL POLISHED                                                        |
| BASEPLATE AND BENDS              |                                                                            |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )                                                    |

Filter Series 810 - 30-Round Liquid Housing  
Housing Style - T-Type - Series VHP - DSH Ver. 11

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| Dimensional Data       |      |      |      |      |      |                   |
|------------------------|------|------|------|------|------|-------------------|
| Cartridge x Height (N) | R mm | S mm | N mm | C mm | E mm | Volume liters (V) |
| 30 x 10"               | 550  | 550  | -    | 1000 | 290  | 118               |
| 30 x 20"               | 550  | 550  | -    | 1250 | 540  | 176               |
| 30 x 30"               | 550  | 550  | -    | 1500 | 790  | 235               |
| 30 x 40"               | 550  | 550  | -    | 1750 | 1040 | 293               |

| Clamp                                |               |     |     |            |     |     |  |
|--------------------------------------|---------------|-----|-----|------------|-----|-----|--|
|                                      | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]                       | A             | L   | Q   | A          | L   | Q   |  |
| 3.0" (76.2mm x 1.65mm)<br>[Standard] | 292           | 685 | 323 | 292        | 765 | 323 |  |
| 4.0" (101.6mm x 2.11mm)              | 300           | 662 | 306 | 300        | 742 | 306 |  |

| DIN 11851 Male Part |               |     |     |            |     |     |  |
|---------------------|---------------|-----|-----|------------|-----|-----|--|
|                     | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]      | A             | L   | Q   | A          | L   | Q   |  |
| DN80 [Standard]     | 292           | 740 | 356 | 331        | 820 | 356 |  |
| DN100               | 300           | 734 | 342 | 300        | 814 | 342 |  |

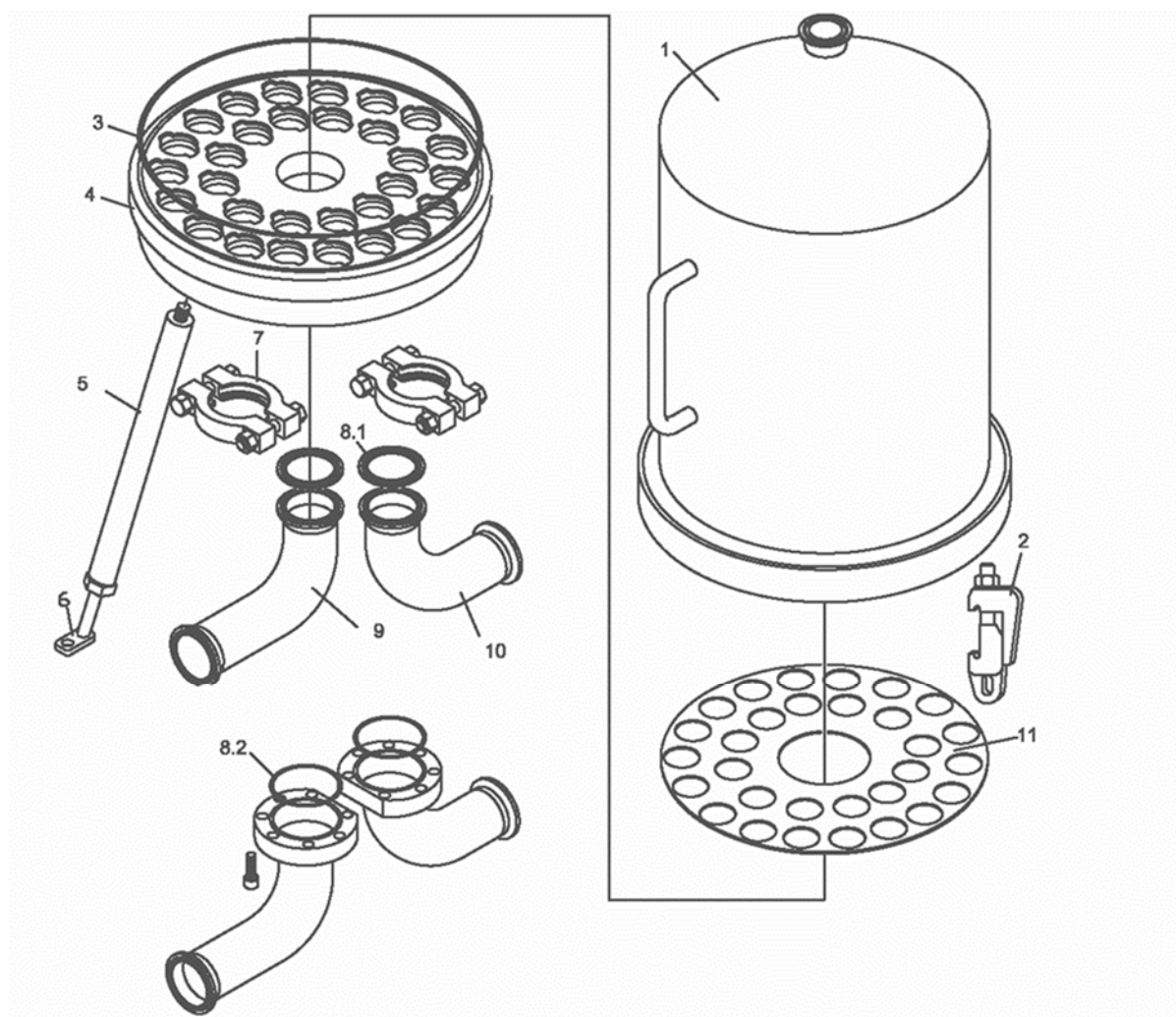
| Butt Weld ASME BPE                   |               |     |     |            |     |     |  |
|--------------------------------------|---------------|-----|-----|------------|-----|-----|--|
|                                      | Without Drain |     |     | With Drain |     |     |  |
| Dimension [mm]                       | A             | B   | Q   | A          | B   | Q   |  |
| 3.0" (76.2mm x 1.65mm)<br>[Standard] | 292           | 660 | 310 | 292        | 740 | 310 |  |
| DN 4.0" (101.6mm x 2.11mm)           | 300           | 630 | 290 | 300        | 710 | 290 |  |

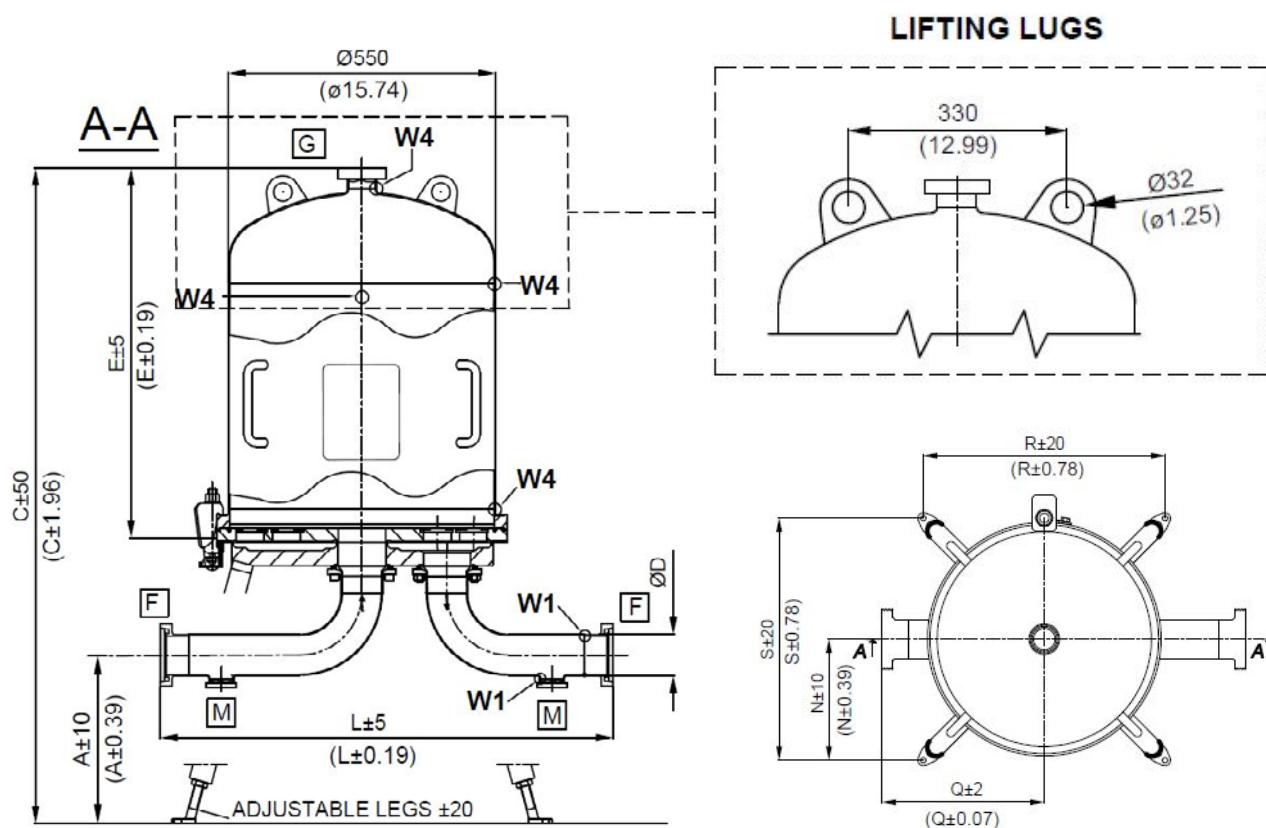
| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 30 x 10"                  | 28.0             | 93.0                  | 80x100x78         | 112.0                    |
| 30 x 20"                  | 38.0             | 101.0                 | 105x100x78        | 121.0                    |
| 30 x 30"                  | 48.0             | 109.0                 | 130x100x78        | 131.0                    |
| 30 x 40"                  | 58.0             | 117.0                 | 155x100x78        | 140.0                    |

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |                    |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" | Standard Dimension |
| 810303GXXAGG080L                    | 30                | 30"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | x                  | x                  |
| 810303GXXAGG100L                    | 30                | 30"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | x                  |                    |
| 810303HXXAGG080L                    | 30                | 30"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | x                  | x                  |
| 810303HXXAGG100L                    | 30                | 30"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | x                  |                    |
| 810303GXXEGG080L                    | 30                | 30"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | -                  | x                  |
| 810303GXXEGG100L                    | 30                | 30"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | -                  |                    |
| 810303HXXEGG080L                    | 30                | 30"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | -                  | x                  |
| 810303HXXEGG100L                    | 30                | 30"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | -                  |                    |
| 810303GXXATTO30L                    | 30                | 30"         | TC                  | 3.0"             | Silicone | x                 | x                  | x                  |
| 810303GXXATTO40L                    | 30                | 30"         | TC                  | 4.0"             | Silicone | x                 | x                  |                    |
| 810303HXXATTO30L                    | 30                | 30"         | TC                  | 3.0"             | EPDM     | x                 | x                  | x                  |
| 810303HXXATTO40L                    | 30                | 30"         | TC                  | 4.0"             | EPDM     | x                 | x                  |                    |
| 810303GXXETTO30L                    | 30                | 30"         | TC                  | 3.0"             | Silicone | x                 | -                  | x                  |
| 810303GXXETTO40L                    | 30                | 30"         | TC                  | 4.0"             | Silicone | x                 | -                  |                    |
| 810303HXXETTO30L                    | 30                | 30"         | TC                  | 3.0"             | EPDM     | x                 | -                  | x                  |
| 810303HXXETTO40L                    | 30                | 30"         | TC                  | 4.0"             | EPDM     | x                 | -                  |                    |
| 810303GXXASS030L                    | 30                | 30"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | x                  | x                  |
| 810303GXXASS040L                    | 30                | 30"         | Welding Stubs       | 101.6 x 1.65     | Silicone | x                 | x                  |                    |
| 810303HXXASS030L                    | 30                | 30"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | x                  | x                  |
| 810303HXXASS040L                    | 30                | 30"         | Welding Stubs       | 101.6 x 1.65     | EPDM     | x                 | x                  |                    |
| 810303GXXESS030L                    | 30                | 30"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | -                  | x                  |
| 810303GXXESS040L                    | 30                | 30"         | Welding Stubs       | 101.6 x 1.65     | Silicone | x                 | -                  |                    |
| 810303HXXESS030L                    | 30                | 30"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | -                  | x                  |
| 810303HXXESS040L                    | 30                | 30"         | Welding Stubs       | 101.6 x 1.65     | EPDM     | x                 | -                  |                    |
| 810304GXXAGG080L                    | 30                | 40"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | x                  | x                  |
| 810304GXXAGG100L                    | 30                | 40"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | x                  |                    |
| 810304HXXAGG080L                    | 30                | 40"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | x                  | x                  |
| 810304HXXAGG100L                    | 30                | 40"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | x                  |                    |
| 810304GXXEGG080L                    | 30                | 40"         | DIN 11851 Male Part | DN 80            | Silicone | x                 | -                  | x                  |
| 810304GXXEGG100L                    | 30                | 40"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | -                  |                    |
| 810304HXXEGG080L                    | 30                | 40"         | DIN 11851 Male Part | DN 80            | EPDM     | x                 | -                  | x                  |
| 810304HXXEGG100L                    | 30                | 40"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | -                  |                    |
| 810304GXXATTO30L                    | 30                | 40"         | TC                  | 3.0"             | Silicone | x                 | x                  | x                  |
| 810304GXXATTO40L                    | 30                | 40"         | TC                  | 4.0"             | Silicone | x                 | x                  |                    |
| 810304HXXATTO30L                    | 30                | 40"         | TC                  | 3.0"             | EPDM     | x                 | x                  | x                  |
| 810304HXXATTO40L                    | 30                | 40"         | TC                  | 4.0"             | EPDM     | x                 | x                  |                    |
| 810304GXXETTO30L                    | 30                | 40"         | TC                  | 3.0"             | Silicone | x                 | -                  | x                  |
| 810304GXXETTO40L                    | 30                | 40"         | TC                  | 4.0"             | Silicone | x                 | -                  |                    |
| 810304HXXETTO30L                    | 30                | 40"         | TC                  | 3.0"             | EPDM     | x                 | -                  | x                  |
| 810304HXXETTO40L                    | 30                | 40"         | TC                  | 4.0"             | EPDM     | x                 | -                  |                    |
| 810304GXXASS030L                    | 30                | 40"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | x                  | x                  |
| 810304GXXASS040L                    | 30                | 40"         | Welding Stubs       | 101.6 x 1.65     | Silicone | x                 | x                  |                    |
| 810304HXXASS030L                    | 30                | 40"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | x                  | x                  |
| 810304HXXASS040L                    | 30                | 40"         | Welding Stubs       | 101.6 x 1.65     | EPDM     | x                 | x                  |                    |
| 810304GXXESS030L                    | 30                | 40"         | Welding Stubs       | 76.2 x 1.65      | Silicone | x                 | -                  | x                  |
| 810304GXXESS040L                    | 30                | 40"         | Welding Stubs       | 101.6 x 1.65     | Silicone | x                 | -                  |                    |
| 810304HXXESS030L                    | 30                | 40"         | Welding Stubs       | 76.2 x 1.65      | EPDM     | x                 | -                  | x                  |
| 810304HXXESS040L                    | 30                | 40"         | Welding Stubs       | 101.6 x 1.65     | EPDM     | x                 | -                  |                    |



| Spare Parts |                         |            |            |      |
|-------------|-------------------------|------------|------------|------|
| Pos.        | Description             | Material   | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L  | -          | 1    |
| 2           | Bolt Clamp M16          | AISI 316Ti | 8ZSL--0009 |      |
| 3           | O-Ring d=7.00 ID=532.30 | Silicone   | 8ZDSC-0012 | 1    |
| 4           | Cartridge Plate         | AISI 316L  | -          | 1    |
| 5           | Leg                     | AISI 304   | -          | 4    |
| 6           | Foot                    | AISI 304   | -          | 4    |
| 7           | Clamp 4"                | AISI 304   | -          | 2    |
| 8.1         | Gasket Clamp 4"         | PTFE       | 8ZDPC-0001 | 2    |
| 8.2         | O-Ring d=5.34 ID=164.46 | Silicone   | 8ZDSC-0013 | 2    |
| 9           | Inlet Bend              | AISI 316L  | -          | 1    |
| 10          | Outlet Bend             | AISI 316L  | -          | 1    |
| 11          | Protection Plate        | AISI 316L  | -          | 1    |





## DATA LABEL EXAMPLE



### FILTER HOUSING

PART NUMBER

MODEL

TYPE

CARTRIDGE NO. x HIGH (inch)

CATEGORY 2014/68/EU

VOLUME LITRES (V)

PRESSURE(PS) min-max at TS= ... °C bar

PRESSURE(PS) min-max at TS= ... °C bar

TEST PRESSURE(PT) bar

PED FLUID GROUP (2014/68/EU)

GR.2 - LIQ/GAS

LIMITED TO CLEAN IN PLACE (CIP)

PRESSURE(PS) min-max at TS= ... °C bar

PED FLUID GROUP (2014/68/EU)

GR.1 - LIQ

VESSEL MATERIAL

YEAR OF MANUFACTURE

VESSEL NUMBER

CE 0948

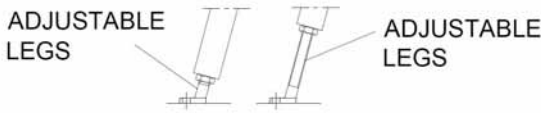


### TECHNICAL DATA

|                                         |                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------|
| SERIES                                  | VHP                                                                         |
| N° CARTRIDGES                           | 226 CODE 7                                                                  |
| ATEX REGULATION                         | II -/2 G Ex h IIC T3....T6 -/Gb X<br>II -/2 D Ex h IIC 150°C....85°C -/Db X |
| DESIGN CODE                             | EN 13445                                                                    |
| SERVICE CONDITIONS                      |                                                                             |
| PED FLUID GROUP                         | Gr.2 - LIQ,GAS                                                              |
| PRESSURE (PS) min-max bar (psi)         | -1 +10 bar ( -14.5 + 145 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +40°C ( -4 +104 °F )                                                    |
| PRESSURE (PS) min-max bar (psi)         | -1 +4 bar ( -14.5 +58 psi )                                                 |
| TEMPERATURE (TS) min-max °C (°F)        | -20 +150°C ( -4° +302°F )                                                   |
| LIMITED TO CLEAN IN PLACE (CIP)         |                                                                             |
| PED FLUID GROUP                         | Gr.1 - LIQ                                                                  |
| PRESSURE (PS) min-max bar (psi)         | +0 +3 bar ( +0 +43.5 psi )                                                  |
| TEMPERATURE (TS) min-max °C (°F)        | +10 +80°C ( +50° +176°F )                                                   |
| TEST PRESSURE (PT)                      | 20 bar ( 290 psi )                                                          |
| VESSEL MATERIAL                         | 316L / 1.4404                                                               |
| HOUSING AND GASKET MATERIAL             | EU 1935/2004 COMPLIANT                                                      |
| EXTERNAL SURFACE BOWL                   | MIRROR POLISHED                                                             |
| INTERNAL SURFACE BOWL                   | FINE BRUSHED                                                                |
| EXTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL ROUGHNESS                      | Ra<0.8 µm ( Ra<32 µin )                                                     |

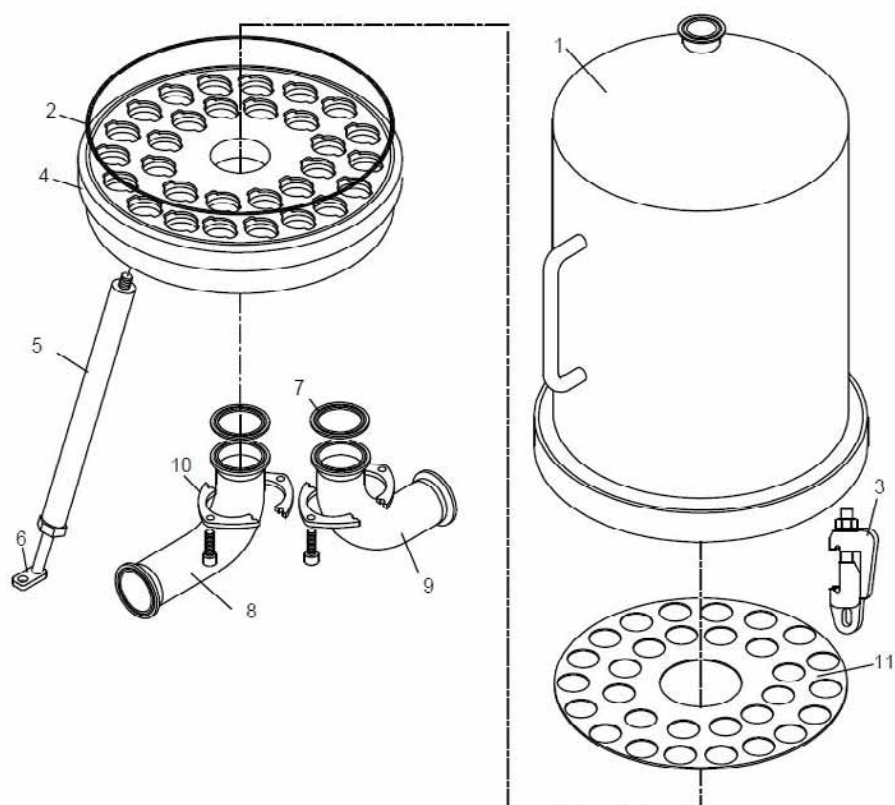
| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                   |                    |                   |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------|--------------------|-------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent TC 1.5" | With Drain TC 1.5" | Standard Diameter |
| 810363GXXEGG100L                    | 36                | 30"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | -                  |                   |
| 810363GXXAGG100L                    | 36                | 30"         | DIN 11851 Male Part | DN 100           | Silicone | x                 | x                  | x                 |
| 810363HXXEGG100L                    | 36                | 30"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | -                  |                   |
| 810363HXXAGG100L                    | 36                | 30"         | DIN 11851 Male Part | DN 100           | EPDM     | x                 | x                  |                   |

| DIN 11851 Male Part |            |     |     |
|---------------------|------------|-----|-----|
|                     | With Drain |     |     |
| Dimension [mm]      | A          | L   | Q   |
| DN100               | 310-330    | 790 | 395 |

| Dimensional Data Legs                                                                                                                                                                                                      |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|
| H                                                                                                                                                                                                                          | N   | R   | S   |
| 450 - 530                                                                                                                                                                                                                  | 265 | 530 | 530 |
|  <p>ALL DIMENSIONS ARE REFERRED TO THE TWO LIMIT POSITIONS:<br/>LOWEST LEVEL (AS SHIPPED IN THE PACKAGING)<br/>COMPLETED LIFTED LEG</p> |     |     |     |

| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 36 x 30"                  | 51.0             | 112.0                 | 145x75x72         | 134.0                    |
| 36 x 40"                  | 59.0             | 118.0                 | 170x75x72         | 141.0                    |

| Spare Parts |                         |                    |            |      |
|-------------|-------------------------|--------------------|------------|------|
| Pos.        | Description             | Material           | Part No.   | Q.ty |
| 1           | Housing Bowl            | AISI 316L          | -          | 1    |
| 2           | O-Ring d=7.00 ID=532.30 | Silicone           | 8ZDSC-0012 | 1    |
| 3           | Bolt Clamp M20          | SAF2205 + AISI 304 | 8ZSL--0015 | 1    |
| 4           | BASE PLATE              | AISI 316L          | -          | 1    |
| 5           | Leg                     | AISI 304           | -          | 1    |
| 6           | Foot                    | AISI 304           | -          | 4    |
| 7           | Gasket Clamp 4"         | PTFE               | 8ZDPC-0001 | 2    |
| 8           | Inlet Bend              | AISI 316L          | -          | 1    |
| 9           | Outlet Bend             | AISI 316L          | -          | 1    |
| 10          | Protection Plate        | AISI 316L          | -          | 1    |



|  <b>FILTER HOUSING</b>                                                                 |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| PART NUMBER                                                                                                                                                             |               |
| MODEL                                                                                                                                                                   |               |
| TYPE                                                                                                                                                                    |               |
| CARTRIDGE NO. x HIGH (inch)                                                                                                                                             |               |
| CATEGORY 2014/68/EU                                                                                                                                                     |               |
| VOLUME LITRES (V)                                                                                                                                                       |               |
| PRESSURE(PS) min-max at TS=-20+150°C bar -1 + 10                                                                                                                        |               |
| TEST PRESSURE(PT) bar                                                                                                                                                   |               |
| DESIGN TEMPERATURE (TS) min-max -20+150°C                                                                                                                               |               |
| FLUID GROUP (Art.13 - 2014/68/EU)                                                                                                                                       |               |
| VESSEL MATERIAL                                                                                                                                                         | 316L / 1.4404 |
| YEAR OF MANUFACTURE                                                                                                                                                     |               |
| VESSEL NUMBER                                                                                                                                                           |               |
| ATEX CLASSIFICATION                                                                                                                                                     | II 2 GD IIC   |
| ATEX CERTIFICATION                                                                                                                                                      | 04.01 EX.02-X |
|   |               |

| Technical Data      |                                                    |
|---------------------|----------------------------------------------------|
| No. Cartridge       | 01                                                 |
| Cartridge Socket    | 226 CODE 7                                         |
| ATEX REGULATION     | Group 2 - Cat 2 GAS&DUST<br>FLUID GR IIC zone 1&21 |
| DESIGN CODE         | DIN EN 13445                                       |
| Certification       | PED 2014/68/EU                                     |
| DESIGN PRESSURE     | +10bar                                             |
| DESIGN TEMPERATURE  | -20°C...+150°C                                     |
| Vessel Material     | 316L   1.4404                                      |
| FLUIDGroup          | 2 (not dangerous)                                  |
| PHYSICAL STATE      | LIQUID   GAS                                       |
| INTERNAL FINISH     | Mechanical Polishing                               |
| INTERNAL ROUGHNESS  | RA <0.8 MICRON                                     |
| EXTERNAL FINISH     | Mechanical Polishing                               |
| INLET CONNECTION A  | Clamp ASME 1.5" (38.1mm x 1.65xx)                  |
| OUTLET CONNECTION B | Clamp ASME 1.5" (38.1mm x 1.65xx)                  |
| Drain Connection C  | Clamp ASME 0.5" (12.7mm x 1.65xx)                  |

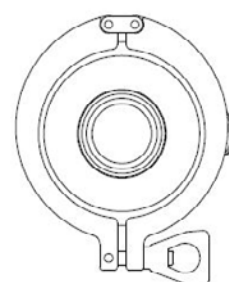
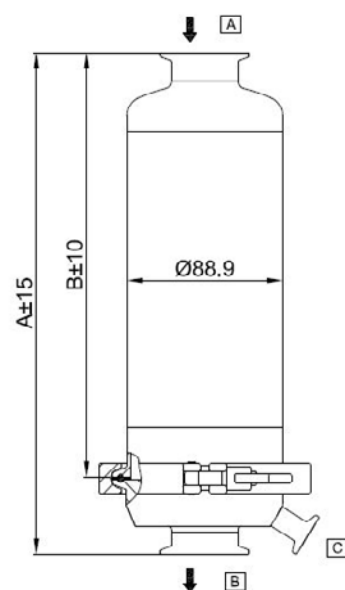


| Order Code Aand Technical Equipment |                   |             |                           |                  |          |                    |
|-------------------------------------|-------------------|-------------|---------------------------|------------------|----------|--------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection Inlet & Outlet | Nominal Diameter | Gasket   | With Drain TC 0.5" |
| 810010U25STT015L                    | 01                | 05"         | TC                        | 1.5"             | Silicone | x                  |
| 810011U25STT015L                    | 01                | 10"         | TC                        | 1.5"             | Silicone | x                  |
| 810012U25STT015L                    | 01                | 20"         | TC                        | 1.5"             | Silicone | x                  |
| 810013U25STT015L                    | 01                | 30"         | TC                        | 1.5"             | Silicone | x                  |
| 810010T25STT015L                    | 01                | 05"         | TC                        | 1.5"             | EPDM     | x                  |
| 810011T25STT015L                    | 01                | 10"         | TC                        | 1.5"             | EPDM     | x                  |
| 810012T25STT015L                    | 01                | 20"         | TC                        | 1.5"             | EPDM     | x                  |
| 810013T25STT015L                    | 01                | 30"         | TC                        | 1.5"             | EPDM     | x                  |
|                                     |                   |             |                           |                  |          |                    |

| Dimensional Data       |      |      |
|------------------------|------|------|
| Cartridge x Height (N) | A mm | B mm |
| 01 x 05"               | 272  | 227  |
| 01 x 10"               | 375  | 333  |
| 01 x 20"               | 625  | 581  |
| 01 x 30"               | 875  | 831  |

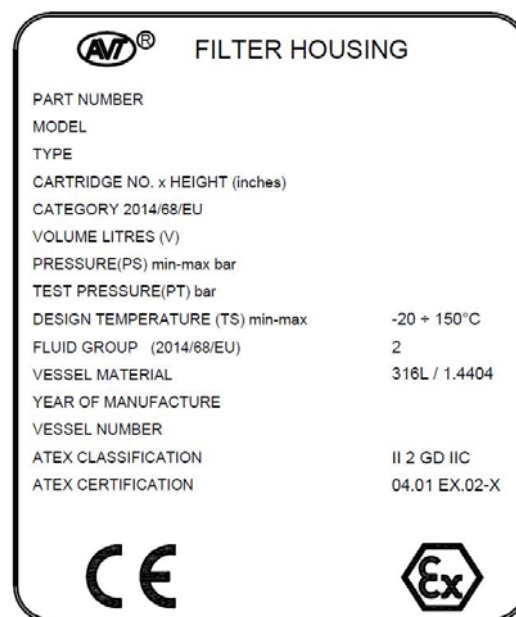
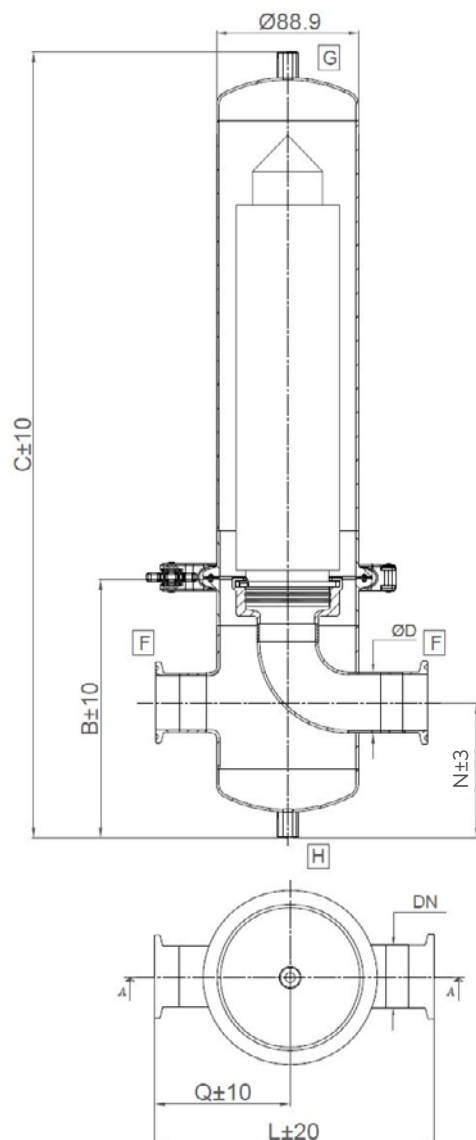
| Spare Parts |          |            |      |
|-------------|----------|------------|------|
| Description | Material | Part No.   | Q.ty |
| Clamp 4"    | AISI 304 | 8ZSLA-0002 | 1    |
| Gasket 4"   | Silicone | 8ZDSC-0001 | 1    |
| Gasket 4"   | EPDM     | 8ZDEC-0001 | 1    |

| Packaging Size And Weight |                  |                       |                   |                          |
|---------------------------|------------------|-----------------------|-------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packing Size [cm] | Total Weight Packed [kg] |
| 01x05"                    | 0.7              | 2.6                   | 44.x13x15         | 3.6                      |
| 01x10"                    | 1.1              | 3.0                   | 69x13x15          | 4.0                      |
| 01x20"                    | 1.9              | 4.0                   | 94x13x15          | 5.0                      |
| 01x30"                    | 2.7              | 5.0                   | 115x25x15         | 6.0                      |
| 01x40"                    | 3.5              | 6.0                   | 115x25x15         | 7.0                      |



Type 810 - Gas  
1-Round Housings  
(10 bar Version)





| Technical Data           |                                                            |
|--------------------------|------------------------------------------------------------|
| Filter Housing Name      | KMC                                                        |
| Cartridge Numer          | 01                                                         |
| Cartridge Socket         | 226 Code 7                                                 |
| Certification 2014/68/EU | Art. 4.3 (No CE Mark)<br>Cat 1 - Only for KMC013 & KMC0014 |
| Design Pressure (PS)     | -1 ... +10bar                                              |
| Design Temperature (TS)  | -20°C ...+150°C                                            |
| Test Pressure (PT)       | 14.5 bar                                                   |
| Vessel Material          | AISI 316L W.N. 1.4404                                      |
| Internal Finish          | Mechanical Polishing                                       |
| Internal Roughness       | Ra ≤ 0.8 Micron - Guaranteed Only On Downstream            |
| External Finishing       | Mechanical Polishing                                       |



| Dimensional Data       |                                           |                                          |                                    |                           |
|------------------------|-------------------------------------------|------------------------------------------|------------------------------------|---------------------------|
| Cartridge x Height (N) | C [mm] with Vent & Drain BSPF 1 4" female | C [mm] with Vent TC 1.5" & Drain TC 0.5" | B [mm] with Drain BSPF 1 4" female | B [mm] with Drain TC 0.5" |
| 01 x 5"                | 381                                       | 381                                      | 178                                | 168                       |
| 01 x 10"               | 501                                       | 501                                      | 178                                | 168                       |
| 01 x 20"               | 751                                       | 751                                      | 178                                | 168                       |
| 01 x 30"               | 1001                                      | 1001                                     | 178                                | 168                       |
| 01 x 40"               | 1251                                      | 1251                                     | 178                                | 168                       |

| Clamp                  |        |        |        |
|------------------------|--------|--------|--------|
| Dimension              | L [mm] | Q [mm] | N [mm] |
| 1.5" (38.1mm x 1.65mm) | 139    | 61     | 99     |

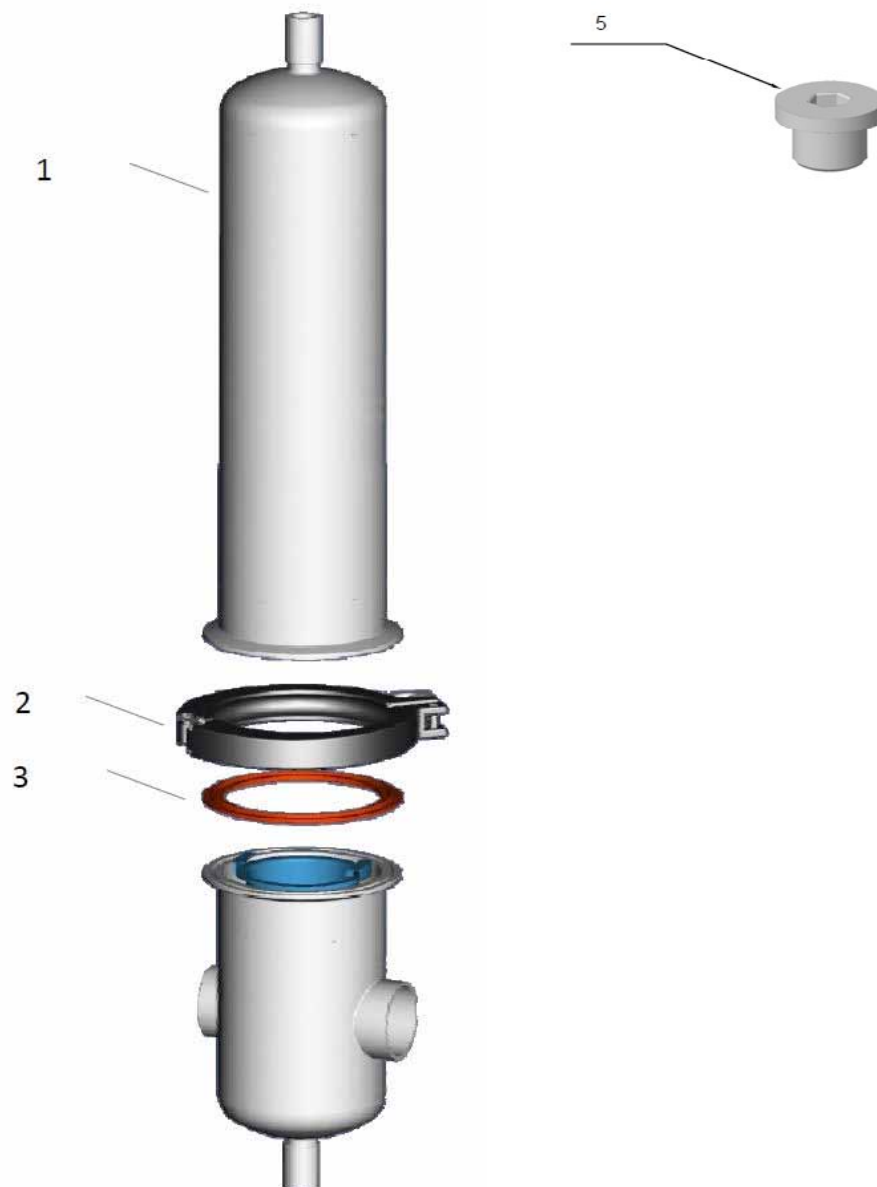
| DIN 11851 Male Part |        |        |        |
|---------------------|--------|--------|--------|
| Dimension           | L [mm] | Q [mm] | N [mm] |
| DN40                | 188    | 81     | 99     |

| Butt Weld ASME BPE     |        |        |        |
|------------------------|--------|--------|--------|
| Dimension              | L [mm] | Q [mm] | N [mm] |
| 1.5" (38.1mm x 1.65mm) | 267    | 128    | 99     |

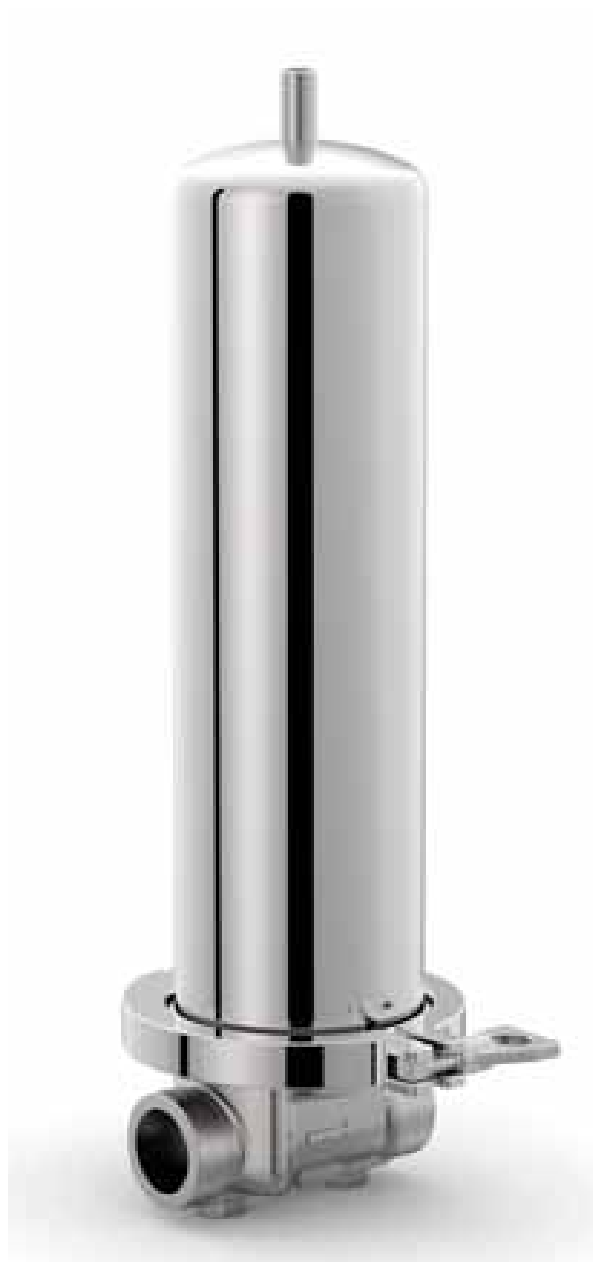
| Packaging Size And Weight |                  |                       |                          |
|---------------------------|------------------|-----------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Total Weight Packed [kg] |
| 01 x 5"                   | 0.7              | 2.6                   | 3.6                      |
| 01 x 10"                  | 1.1              | 3.0                   | 4.0                      |
| 01 x 20"                  | 1.9              | 4.0                   | 5.0                      |
| 01 x 30"                  | 2.7              | 5.0                   | 6.0                      |
| 01 x 40"                  | 3.5              | 6.0                   | 7.0                      |

| Order Code Aand Technical Equipment |                   |             |                     |                  |          |                                                                   |                                   |
|-------------------------------------|-------------------|-------------|---------------------|------------------|----------|-------------------------------------------------------------------|-----------------------------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection          | Nominal Diameter | Gasket   | With Vent & Drain BSPF 1/4" female + PLUGS and PTFE gaskets [G H] | With Vent TC 1.5" & Drain TC 0.5" |
| 810010O25GTT015L                    | 01                | 5"          | TC                  | 1.5"             | Silicone | x                                                                 |                                   |
| 810010N25GTT015L                    | 01                | 5"          | TC                  | 1.5"             | EPDM     | x                                                                 |                                   |
| 810010O25GSS015L                    | 01                | 5"          | Welding Stubs       | 1.5"             | Silicone | x                                                                 |                                   |
| 810010N25GSS015L                    | 01                | 5"          | Welding Stubs       | 1.5"             | EPDM     | x                                                                 |                                   |
| 810010O25GGG015L                    | 01                | 5"          | DIN 11851 Male Part | DN 40            | Silicone | x                                                                 |                                   |
| 810010N25GGG015L                    | 01                | 5"          | DIN 11851 Male Part | DN 40            | EPDM     | x                                                                 |                                   |
| 810011O25GTT015L                    | 01                | 10"         | TC                  | 1.5"             | Silicone | x                                                                 |                                   |
| 810011N25GTT015L                    | 01                | 10"         | TC                  | 1.5"             | EPDM     | x                                                                 |                                   |
| 810011O25GSS015L                    | 01                | 10"         | Welding Stubs       | 1.5"             | Silicone | x                                                                 |                                   |
| 810011N25GSS015L                    | 01                | 10"         | Welding Stubs       | 1.5"             | EPDM     | x                                                                 |                                   |
| 810011O25GGG015L                    | 01                | 10"         | DIN 11851 Male Part | DN 40            | Silicone | x                                                                 |                                   |
| 810011N25GGG015L                    | 01                | 10"         | DIN 11851 Male Part | DN 40            | EPDM     | x                                                                 |                                   |
| 810012O25GTT015L                    | 01                | 20"         | TC                  | 1.5"             | Silicone | x                                                                 |                                   |
| 810012N25GTT015L                    | 01                | 20"         | TC                  | 1.5"             | EPDM     | x                                                                 |                                   |
| 810012O25GSS015L                    | 01                | 20"         | Welding Stubs       | 1.5"             | Silicone | x                                                                 |                                   |
| 810012N25GSS015L                    | 01                | 20"         | Welding Stubs       | 1.5"             | EPDM     | x                                                                 |                                   |
| 810012O25GGG015L                    | 01                | 20"         | DIN 11851 Male Part | DN 40            | Silicone | x                                                                 |                                   |
| 810012N25GGG015L                    | 01                | 20"         | DIN 11851 Male Part | DN 40            | EPDM     | x                                                                 |                                   |
| 810013O25GTT015L                    | 01                | 30"         | TC                  | 1.5"             | Silicone | x                                                                 |                                   |
| 810013N25GTT015L                    | 01                | 30"         | TC                  | 1.5"             | EPDM     | x                                                                 |                                   |
| 810013O25GSS015L                    | 01                | 30"         | Welding Stubs       | 1.5"             | Silicone | x                                                                 |                                   |
| 810013N25GSS015L                    | 01                | 30"         | Welding Stubs       | 1.5"             | EPDM     | x                                                                 |                                   |
| 810013O25GGG015L                    | 01                | 30"         | DIN 11851 Male Part | DN 40            | Silicone | x                                                                 |                                   |
| 810013N25GGG015L                    | 01                | 30"         | DIN 11851 Male Part | DN 40            | EPDM     | x                                                                 |                                   |
| 810014O25GTT015L                    | 01                | 40"         | TC                  | 1.5"             | Silicone | x                                                                 |                                   |
| 810014N25GTT015L                    | 01                | 40"         | TC                  | 1.5"             | EPDM     | x                                                                 |                                   |
| 810014O25GSS015L                    | 01                | 40"         | Welding Stubs       | 1.5"             | Silicone | x                                                                 |                                   |
| 810014N25GSS015L                    | 01                | 40"         | Welding Stubs       | 1.5"             | EPDM     | x                                                                 |                                   |
| 810014O25GGG015L                    | 01                | 40"         | DIN 11851 Male Part | DN 40            | Silicone | x                                                                 |                                   |
| 810014N25GGG015L                    | 01                | 40"         | DIN 11851 Male Part | DN 40            | EPDM     | x                                                                 |                                   |
| 810010O25ITT015L                    | 01                | 5"          | TC                  | 1.5"             | Silicone |                                                                   | x                                 |
| 810010N25ITT015L                    | 01                | 5"          | TC                  | 1.5"             | EPDM     |                                                                   | x                                 |
| 810011O25ITT015L                    | 01                | 10"         | TC                  | 1.5"             | Silicone |                                                                   | x                                 |
| 810011N25ITT015L                    | 01                | 10"         | TC                  | 1.5"             | EPDM     |                                                                   | x                                 |
| 810012O25ITT015L                    | 01                | 20"         | TC                  | 1.5"             | Silicone |                                                                   | x                                 |
| 810012N25ITT015L                    | 01                | 20"         | TC                  | 1.5"             | EPDM     |                                                                   | x                                 |
| 810013O25ITT015L                    | 01                | 30"         | TC                  | 1.5"             | Silicone |                                                                   | x                                 |
| 810013N25ITT015L                    | 01                | 30"         | TC                  | 1.5"             | EPDM     |                                                                   | x                                 |
| 810014O25ITT015L                    | 01                | 40"         | TC                  | 1.5"             | Silicone |                                                                   | x                                 |
| 810014N25ITT015L                    | 01                | 40"         | TC                  | 1.5"             | EPDM     |                                                                   | x                                 |

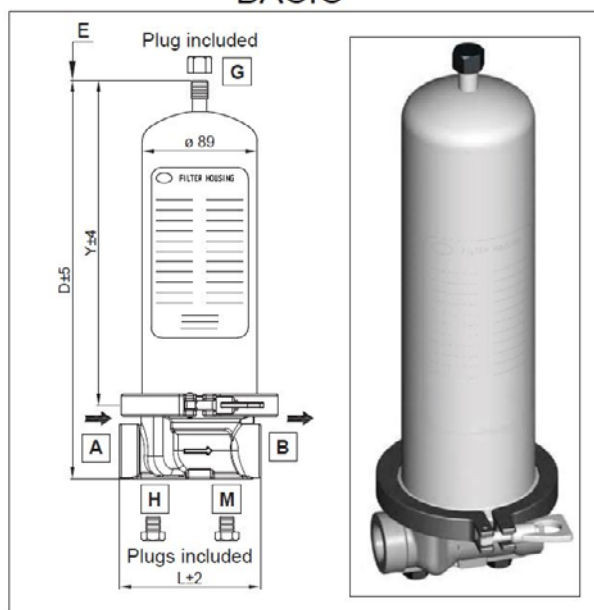
| Spare Parts |                                     |                  |            |      |
|-------------|-------------------------------------|------------------|------------|------|
| Pos.        | Description                         | Material         | Part No.   | Q.ty |
| 1           | Housing Bowl                        | AISI 316L        | -          | 1    |
| 2           | Clamp 3.5"                          | AISI 304         | 8ZSLA-0014 | 1    |
| 3           | Gasket Clamp 3.5"                   | Silicone         | 8ZDSC-0033 | 1    |
|             | Gasket Clamp 3.5"                   | EPDM             | 8ZDEC-0033 | 1    |
| 5           | BSP 1 4" male plug with PTFE Gasket | AISI 316L + PTFE | 8ZVL--0030 | 1    |



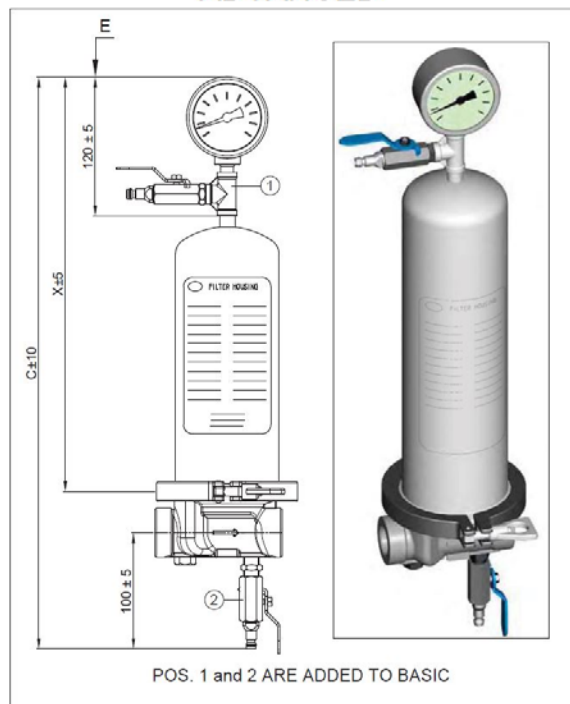
Type 808 - Industrial  
1-Round - Liquid Housing  
(8 bar Version)



## BASIC



## ADVANCED



POS. 1 and 2 ARE ADDED TO BASIC

## Technical Data

|                          |                        |
|--------------------------|------------------------|
| No. Cartridge            | 01                     |
| Cartridge Socket         | 25 (Code 7)   21 (DOE) |
| Certification            | PED 2014 68 EU         |
| Fluid Group              | Group 1 & 2            |
| Design Pressure 0°C-40°C | 8.0 bar                |
| Design Pressure 150°C    | 6.2 bar                |
| Test Pressure (PT)       | 10.5 bar               |
| Vessel Material          | 316L   1.4404          |
| Gasket                   | Silicone               |
| Internal Finishing       | Pickled                |
| Internal Finishing       | Mechanical Polishing   |
| Drain Connection H + M   | BSP 1 4" Female        |
| Vent Connection G        | BSP 1 4" Male          |



## FILTER HOUSING

PART NUMBER

MODEL

TYPE

CARTRIDGE NO. x HIGH (inch)

CATEGORY 2014/68/EU

ART. 4.3

VOLUME LITRES (V)

PRESSURE(PS) min-max at TS=-20÷40°C bar

(\*)

PRESSURE(PS) min-max at TS=150°C bar

(\*)

TEST PRESSURE(PT) bar

DESIGN TEMPERATURE (TS) min-max

-20÷150°C

FLUID GROUP (Art.13 - 2014/68/EU)

1 AND 2

VESSEL MATERIAL

316L / 1.4404

YEAR OF MANUFACTURE

VESSEL NUMBER

ATEX CLASSIFICATION

II 2 GD IIC

ATEX CERTIFICATION

04.01 EX.02-X

\* THE INDICATED PRESSURES ARE FOR NOT DANGEROUS LIQUIDS (GROUP 2). FOR THE USE WITH OTHER FLUIDS SEE THE USER MANUAL.



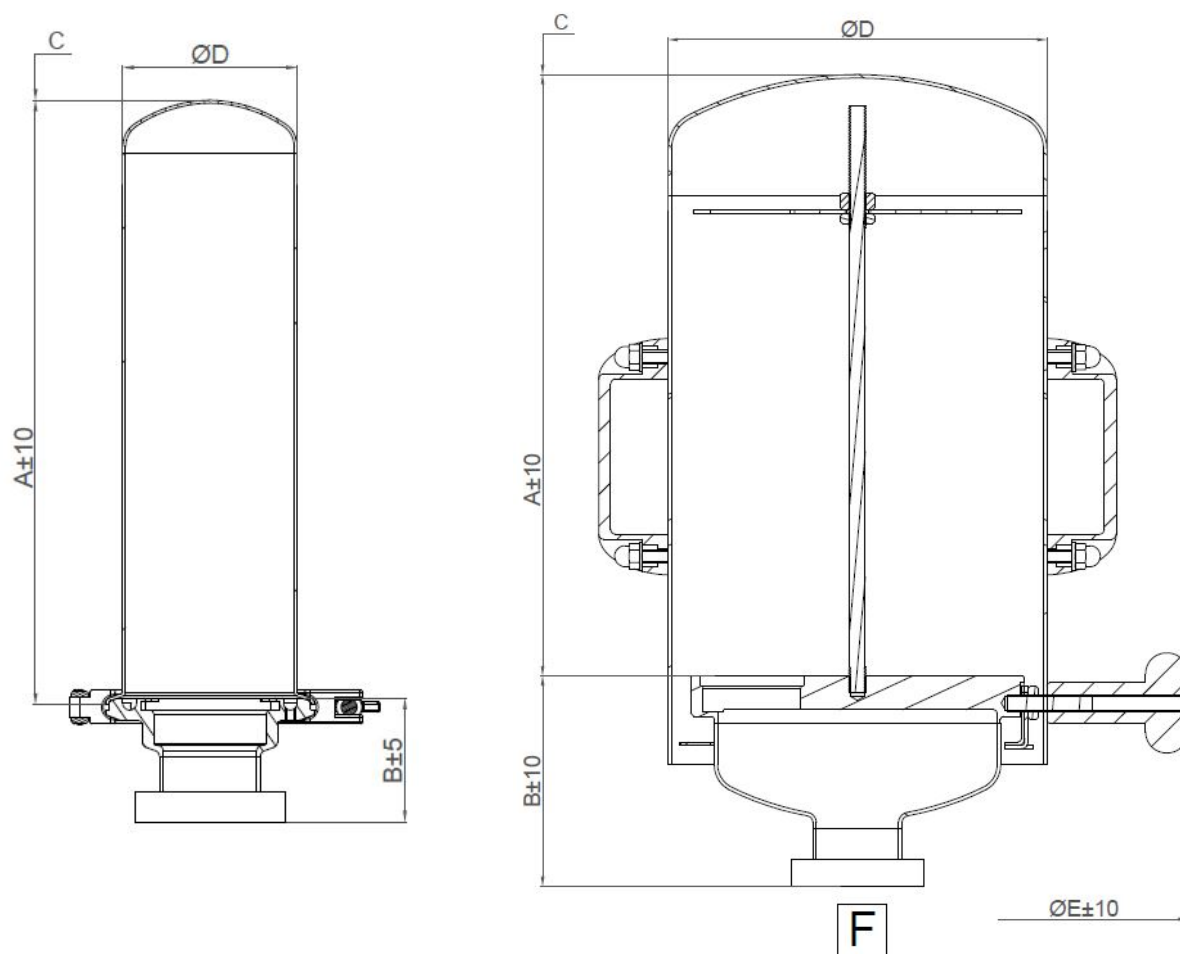
| Dimensional Data          |           |           |           |           |           |                  |                     |                          |
|---------------------------|-----------|-----------|-----------|-----------|-----------|------------------|---------------------|--------------------------|
| CARTRIDGE x HEIGHT<br>(Y) | C<br>[mm] | D<br>[mm] | E<br>[mm] | X<br>[mm] | Y<br>[mm] | Volume(V)<br>[L] | Bowl<br>Weight [kg] | Total Net<br>Weight [kg] |
| 01 x 10"                  | 572       | 382       | 300       | 440       | 320       | 1.9              | 1.1                 | 4                        |
| 01 x 20"                  | 827       | 637       | 554       | 695       | 575       | 3.4              | 1.9                 | 4.8                      |
| 01 x 30"                  | 1082      | 892       | 808       | 950       | 830       | 4.8              | 2.7                 | 5.6                      |
| 01 x 40"                  | 1337      | 1147      | 1062      | 1205      | 1085      | 6.3              | 3.5                 | 6.4                      |

| Order Code Aand Technical Equipment |                      |                |             |          |                              |                       |          |
|-------------------------------------|----------------------|----------------|-------------|----------|------------------------------|-----------------------|----------|
| Order-no.                           | No. of<br>Cartridges | Bowl<br>Height | Adapter     | Version  | Connection<br>Inlet & Outlet | Distance<br>L<br>[mm] | Gasket   |
| 808011E25LII034L                    | 01                   | 10"            | 25 (Code 7) | Advanced | BSP 3/4" Female              | 126                   | Silicone |
| 808012E25LII034L                    | 01                   | 20"            | 25 (Code 7) | Advanced | BSP 3/4" Female              | 126                   | Silicone |
| 808013E25LII034L                    | 01                   | 30"            | 25 (Code 7) | Advanced | BSP 3/4" Female              | 126                   | Silicone |
| 808011E25LII010L                    | 01                   | 10"            | 25 (Code 7) | Advanced | BSP 1" Female                | 110                   | Silicone |
| 808012E25LII010L                    | 01                   | 20"            | 25 (Code 7) | Advanced | BSP 1" Female                | 110                   | Silicone |
| 808013E25LII010L                    | 01                   | 30"            | 25 (Code 7) | Advanced | BSP 1" Female                | 110                   | Silicone |
| 808011E21LII034L                    | 01                   | 10"            | 21 (DOE)    | Advanced | BSP 3/4" Female              | 114                   | Silicone |
| 808012E21LII034L                    | 01                   | 20"            | 21 (DOE)    | Advanced | BSP 3/4" Female              | 114                   | Silicone |
| 808013E21LII034L                    | 01                   | 30"            | 21 (DOE)    | Advanced | BSP 3/4" Female              | 114                   | Silicone |
| 808011E21LII010L                    | 01                   | 10"            | 21 (DOE)    | Advanced | BSP 1" Female                | 98                    | Silicone |
| 808012E21LII010L                    | 01                   | 20"            | 21 (DOE)    | Advanced | BSP 1" Female                | 98                    | Silicone |
| 808013E21LII010L                    | 01                   | 30"            | 21 (DOE)    | Advanced | BSP 1" Female                | 98                    | Silicone |

| Spare Parts                                                                         |                         |          |            |      |
|-------------------------------------------------------------------------------------|-------------------------|----------|------------|------|
|                                                                                     | Description             | Material | Part No.   | Q.ty |
|                                                                                     | O-Ring 91,44mm x 5,34mm | Silicone | 8ZDSC-0026 | 1    |
|  | Wall Bracket            | AISI 304 | 8ZGB--0001 | 1    |

## Type 800 - Vent Housings (Pressureless)



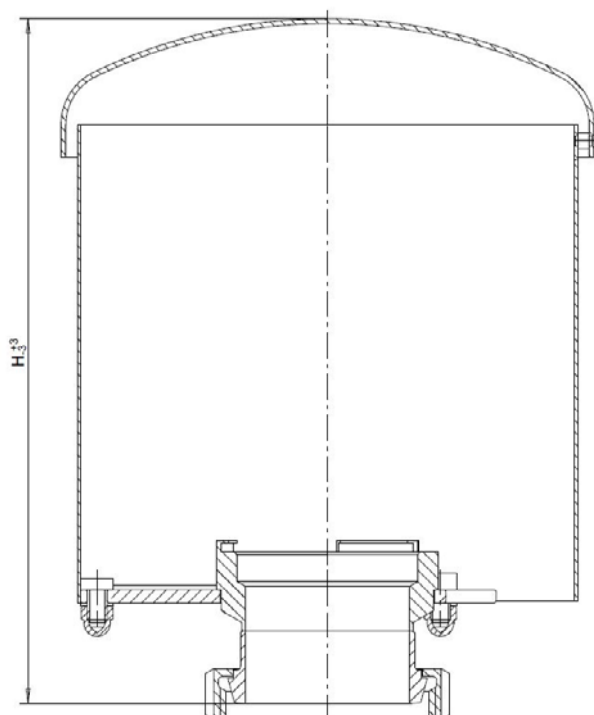


| Technical Data       |                       |
|----------------------|-----------------------|
| Filter Housing Name  | VSN                   |
| Cartridge Socket     | 226 Code 7            |
| Fluid Physical State | Gas                   |
| Vessel Material      | AISI 316L W.N. 1.4404 |
| Internal Finish      | Mechanical Polishing  |
| External Finishing   | Mechanical Polishing  |



| Dimensional Data       |        |                      |                    |                                                                    |        |        |          |
|------------------------|--------|----------------------|--------------------|--------------------------------------------------------------------|--------|--------|----------|
| Cartridge x Height (N) | A [mm] | B [mm]               |                    | C [mm]                                                             | D [mm] | E [mm] | HAND-LES |
|                        |        | Clamp<br>ASME<br>BPE | DIN 11851<br>LINER |                                                                    |        |        |          |
|                        |        |                      |                    | (height needed<br>for removing the<br>bell over the<br>cartridges) |        |        |          |
| 01 x 10"               | 315    | 43                   | 59                 | 300                                                                | 88.9   | 130    | NO       |
| 01 x 20"               | 565    | 43                   | 59                 | 550                                                                | 88.9   | 130    | NO       |
| 01 x 30"               | 815    | 43                   | 59                 | 800                                                                | 88.9   | 130    | NO       |
|                        |        |                      |                    |                                                                    |        |        |          |
| 03 x 10"               | 351    | 97                   | 126                | 300                                                                | 219    | 400    | NO       |
| 03 x 20"               | 601    | 97                   | 126                | 550                                                                | 219    | 400    | YES      |
| 03 x 30"               | 851    | 97                   | 126                | 800                                                                | 219    | 400    | YES      |
|                        |        |                      |                    |                                                                    |        |        |          |
| 05 x 10"               | 345    | 106                  | 133                | 300                                                                | 219    | 400    | NO       |
| 05 x 20"               | 595    | 106                  | 133                | 550                                                                | 219    | 400    | YES      |
| 05 x 30"               | 845    | 106                  | 133                | 800                                                                | 219    | 400    | YES      |
|                        |        |                      |                    |                                                                    |        |        |          |
| 08 x 10"               | 349    | 120                  | 147                | 300                                                                | 273    | 440    | NO       |
| 08 x 20"               | 599    | 120                  | 147                | 550                                                                | 273    | 440    | YES      |
| 08 x 30"               | 849    | 120                  | 147                | 800                                                                | 273    | 440    | YES      |

| Order Code Aand Technical Equipment |                   |             |                                            |                 |
|-------------------------------------|-------------------|-------------|--------------------------------------------|-----------------|
| Order-no.                           | No. of Cartridges | Bowl Height | Connection Type<br>Nominal Diameter   Size |                 |
|                                     |                   |             | Clamp ASME BPE                             | DIN 11851 Liner |
| 800011R25JTT020L                    | 01                | 10"         | 2" (50.8mm x 1.65mm)                       |                 |
| 800012R25JTT020L                    | 01                | 20"         | 2" (50.8mm x 1.65mm)                       |                 |
| 800013R25JTT020L                    | 01                | 30"         | 2" (50.8mm x 1.65mm)                       |                 |
| 800031R25JTT030L                    | 03                | 10"         | 3" (76.2mm x 1.65mm)                       |                 |
| 800032R25JTT030L                    | 03                | 20"         | 3" (76.2mm x 1.65mm)                       |                 |
| 800033R25JTT030L                    | 03                | 30"         | 3" (76.2mm x 1.65mm)                       |                 |
| 800051R25JTT040L                    | 05                | 10"         | 4" (101.2mm x 2.11mm)                      |                 |
| 800052R25JTT040L                    | 05                | 20"         | 4" (101.2mm x 2.11mm)                      |                 |
| 800053R25JTT040L                    | 05                | 30"         | 4" (101.2mm x 2.11mm)                      |                 |
| 800081R25JTT040L                    | 08                | 10"         | 4" (101.2mm x 2.11mm)                      |                 |
| 800082R25JTT040L                    | 08                | 20"         | 4" (101.2mm x 2.11mm)                      |                 |
| 800083R25JTT040L                    | 08                | 30"         | 4" (101.2mm x 2.11mm)                      |                 |
| 800011R25JKK050L                    | 01                | 10"         |                                            | DN 50           |
| 800012R25JKK050L                    | 01                | 20"         |                                            | DN 50           |
| 800013R25JKK050L                    | 01                | 30"         |                                            | DN 50           |
| 800031R25JKK080L                    | 03                | 10"         |                                            | DN 80           |
| 800032R25JKK080L                    | 03                | 20"         |                                            | DN 80           |
| 800033R25JKK080L                    | 03                | 30"         |                                            | DN 80           |
| 800051R25JKK100L                    | 05                | 10"         |                                            | DN 100          |
| 800052R25JKK100L                    | 05                | 20"         |                                            | DN 100          |
| 800053R25JKK100L                    | 05                | 30"         |                                            | DN 100          |
| 800081R25JKK100L                    | 08                | 10"         |                                            | DN 100          |
| 800082R25JKK100L                    | 08                | 20"         |                                            | DN 100          |
| 800083R25JKK100L                    | 08                | 30"         |                                            | DN 100          |
| Other Sizes On Request              |                   |             |                                            |                 |



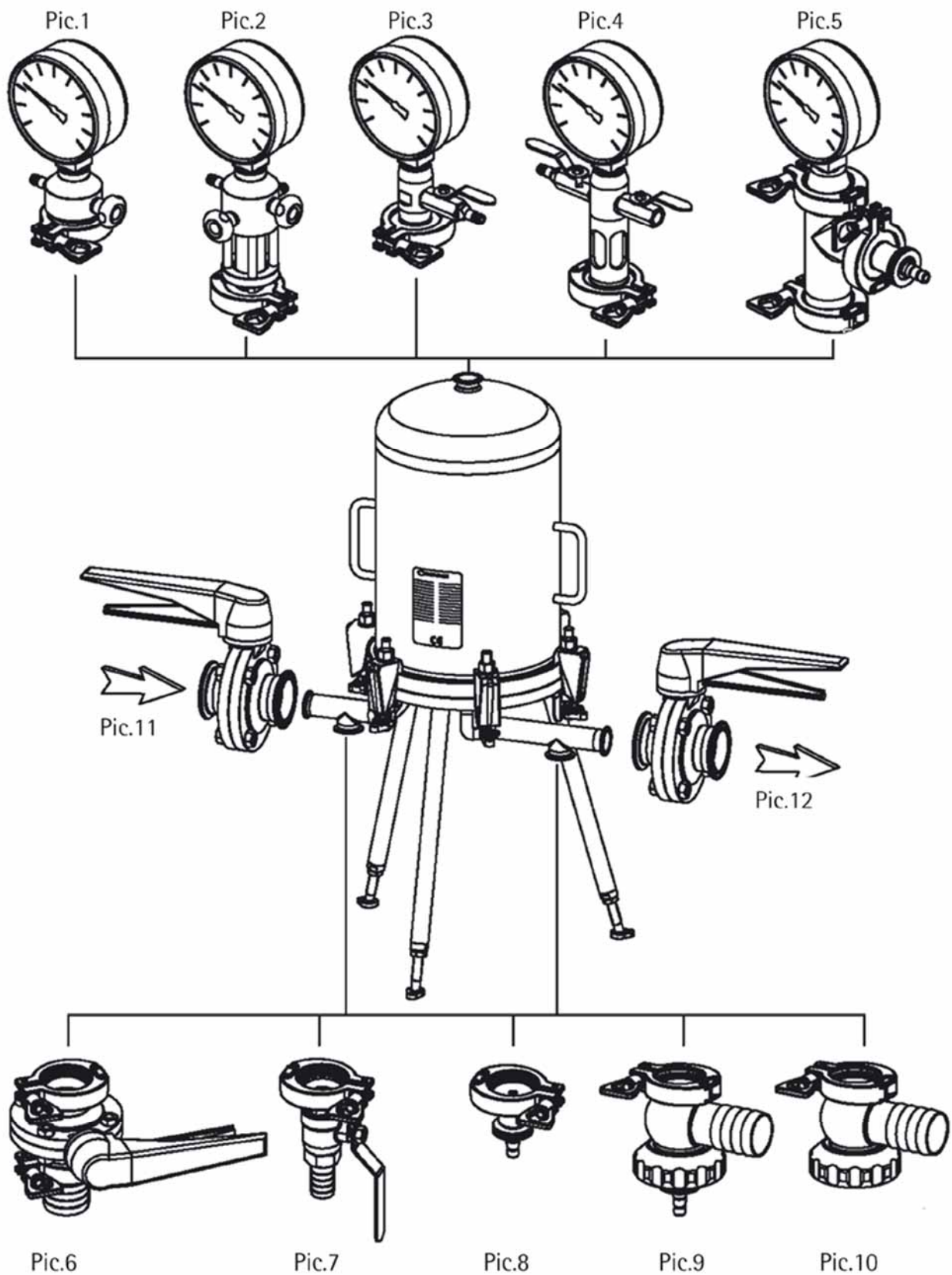
| Technical Data    |                |
|-------------------|----------------|
| Material          | 316L           |
| Internal Surface  | Ra 0.8µm EP    |
| External Surface  | RA 1.6µm EP    |
| Sartorius Adapter | 40             |
| Qty. cartridge    | 1              |
| Height            | 10", 20" & 30" |
| Connector         | DIN 11851      |

Parts not in contact with the Medium are made by Stainless Steel 304. Jumbo vent housings are delivered with Certificates of the materials.

| Order Code And Technical Equipment |                   |             |                 |
|------------------------------------|-------------------|-------------|-----------------|
| Order-no.                          | No. of Cartridges | Bowl Height | Connection Type |
|                                    |                   |             | DIN 11851 Liner |
| 355011V40-K100B                    | 01                | 10"         | DN 100 (104x2)  |
| 355012V40-K100B                    | 01                | 20"         | DN 100 (104x2)  |
| 355013V40-K100B                    | 01                | 30"         | DN 100 (104x2)  |

# Accessories





Order code – see next page

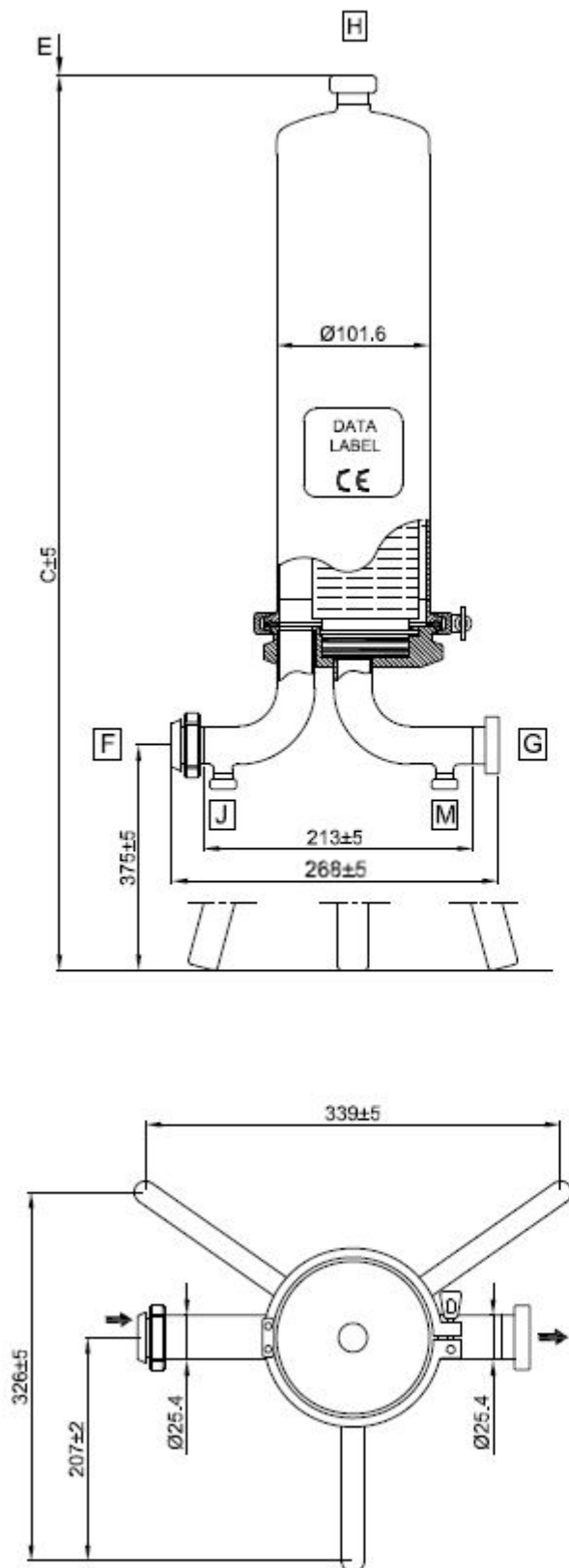
| PICTURE | Description                                                 | ORDER-No.  |
|---------|-------------------------------------------------------------|------------|
| 1       | Gauge + Sanitary Valve 0-10 bar Clamp 50,5mm                | 8ZML--0004 |
| 1       | Gauge + Valve RBE03 0-10 bar Clamp 50,5mm                   | 8ZML--0038 |
| 2       | Vent + Sight Glass + Sanitary Valve 0-10 bar Clamp 50,5mm   | 8ZML--0006 |
| 3       | Gauge + Ball Valve Clamp 50,5mm                             | 8ZML--0002 |
| 3       | Gauge + Valve RBE03 Clamp 50,5mm                            | 8ZML--0037 |
| 4       | 2 Ball Valves + Sight Glass                                 | 8ZVL--0014 |
| 5       | Vent & Valve Clamp & Diaphragm Pressure Gauge 10bar         | 8ZML--0021 |
| 6       | Butterfly Valve 1,5" with Clamp + Hose Adapter Clamp 50,5mm | 8ZVL--0004 |
| 7       | Ball Valve with Clamp + Hose Adapter Clamp 50,5mm           | 8ZVL--0002 |
| 8       | Sampling   Test Valve Clamp                                 | 8ZVL--0005 |
| 9       | Angle Valve + Sampling                                      | 8ZVL--0015 |
| 10      | Angle Valve                                                 | 8ZVL--0021 |
| 11 12   | Butterfly Valve - Clamp 1.0" - 316L                         | 8ZVL--0016 |
| 11 12   | Butterfly Valve - Clamp 1.5" - 316L                         | 8ZVL--0017 |
| 11 12   | Butterfly Valve - Clamp 2.0" - 316L                         | 8ZVL--0008 |
| 11 12   | Butterfly Valve - Clamp 2.5" - 316L                         | 8ZVL--0018 |
| 11 12   | Butterfly Valve - Clamp 3.0" - 316L                         | 8ZVL--0019 |

# Type 813

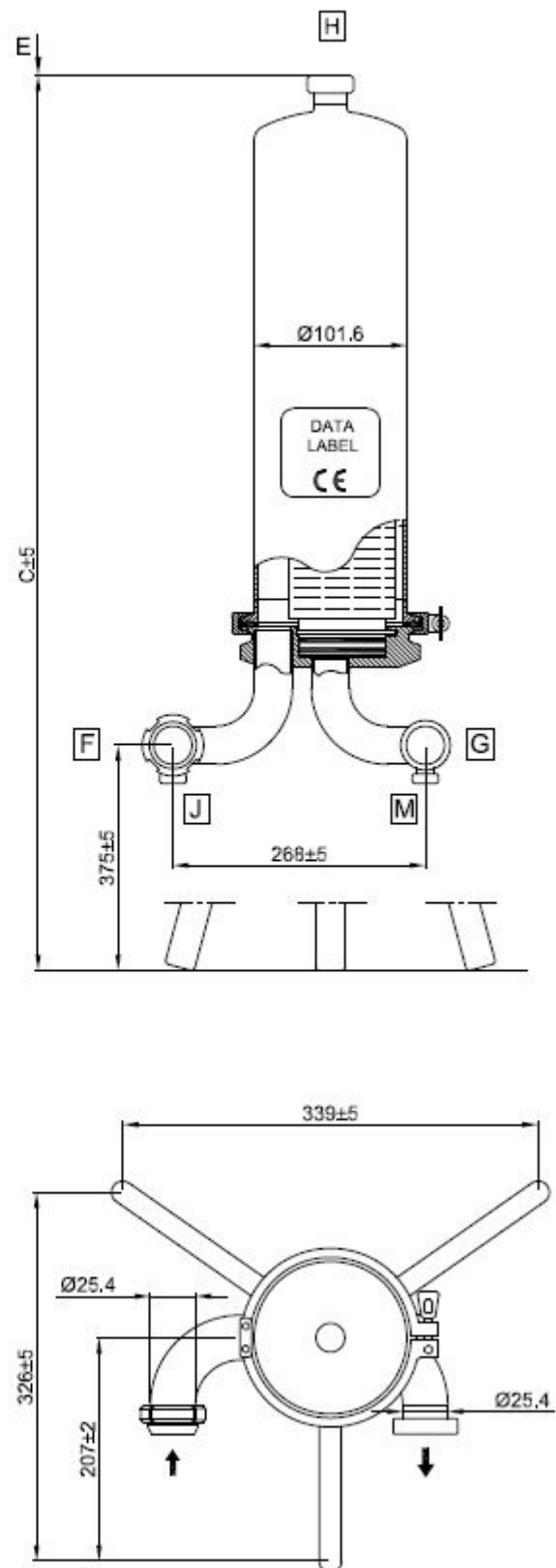
(13 bar Version)



Connection Style 1 - In Line

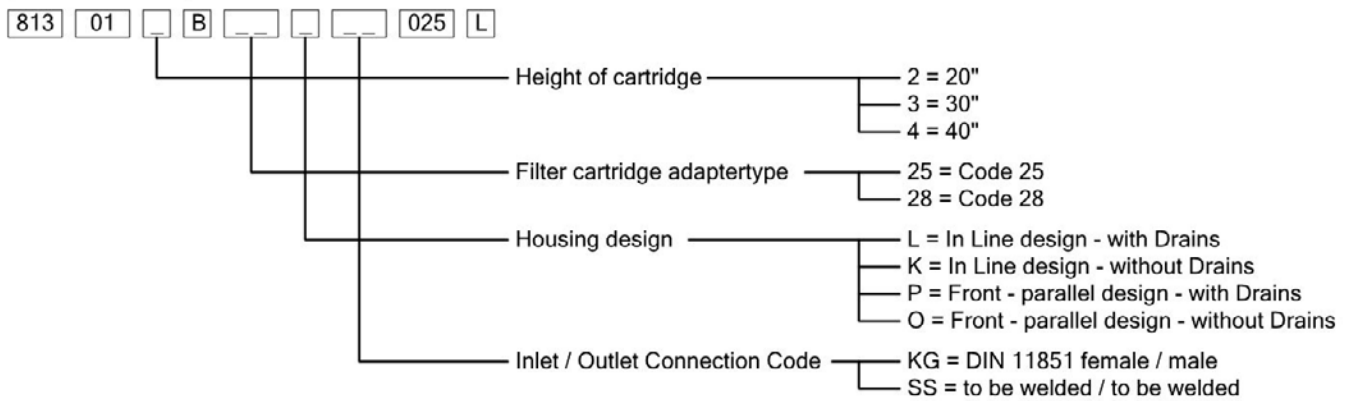


Connection Style 2 - Front





## Order Numbers



| Connection Dimensional Details |                                             |
|--------------------------------|---------------------------------------------|
| Vent Connection                | DIN 11851 DN25 Male                         |
| Drain Connection               | DIN 11851 DN15 Male                         |
| Inlet   Outlet                 | Butt Weld Or DIN 11851 (Female Male) - DN25 |

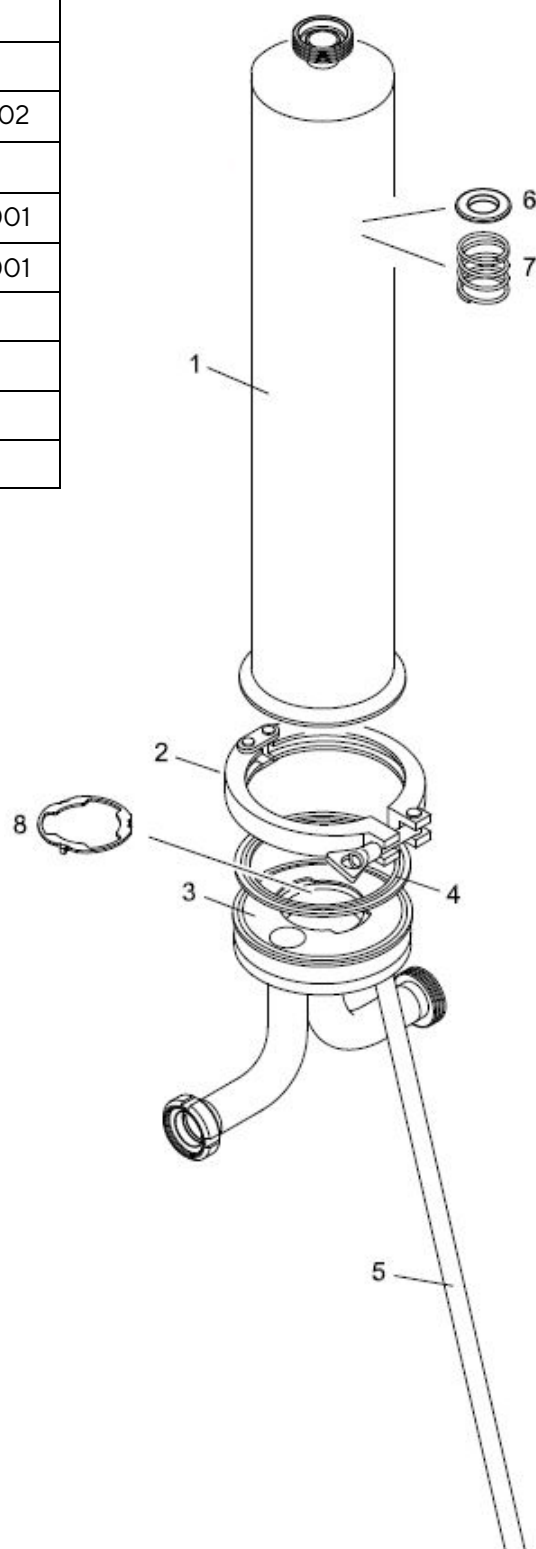


| TECHNICAL DATA                          |                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------|
| SERIES                                  | VJR                                                                       |
| NO. CARTRIDGES                          | 01                                                                        |
| ATEX REGULATION                         | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                             | EN 13445                                                                  |
| SERVICE CONDITIONS                      |                                                                           |
| PED FLUID GROUP                         | Gr.2 - LIQ,GAS                                                            |
| PRESSURE (PS) min-max                   | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                        |
| TEMPERATURE (TS) min-max °C (°F)        | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                |
| PRESSURE (PS) min-max bar (psi)         | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F)        | -20 ÷ 150°C ( -4° ÷ 302°F )                                               |
| LIMITED TO CLEAN IN PLACE (CIP)         |                                                                           |
| PED FLUID GROUP                         | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)         | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F)        | +10 ÷ 80°C ( +50° ÷ 176°F )                                               |
| VESSEL MATERIAL                         | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL             | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL                   | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL                   | FINE BRUSHED                                                              |
| EXTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL SURFACE<br>BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL ROUGHNESS                      | Ra<0.8 µm ( Ra<32 µin )                                                   |

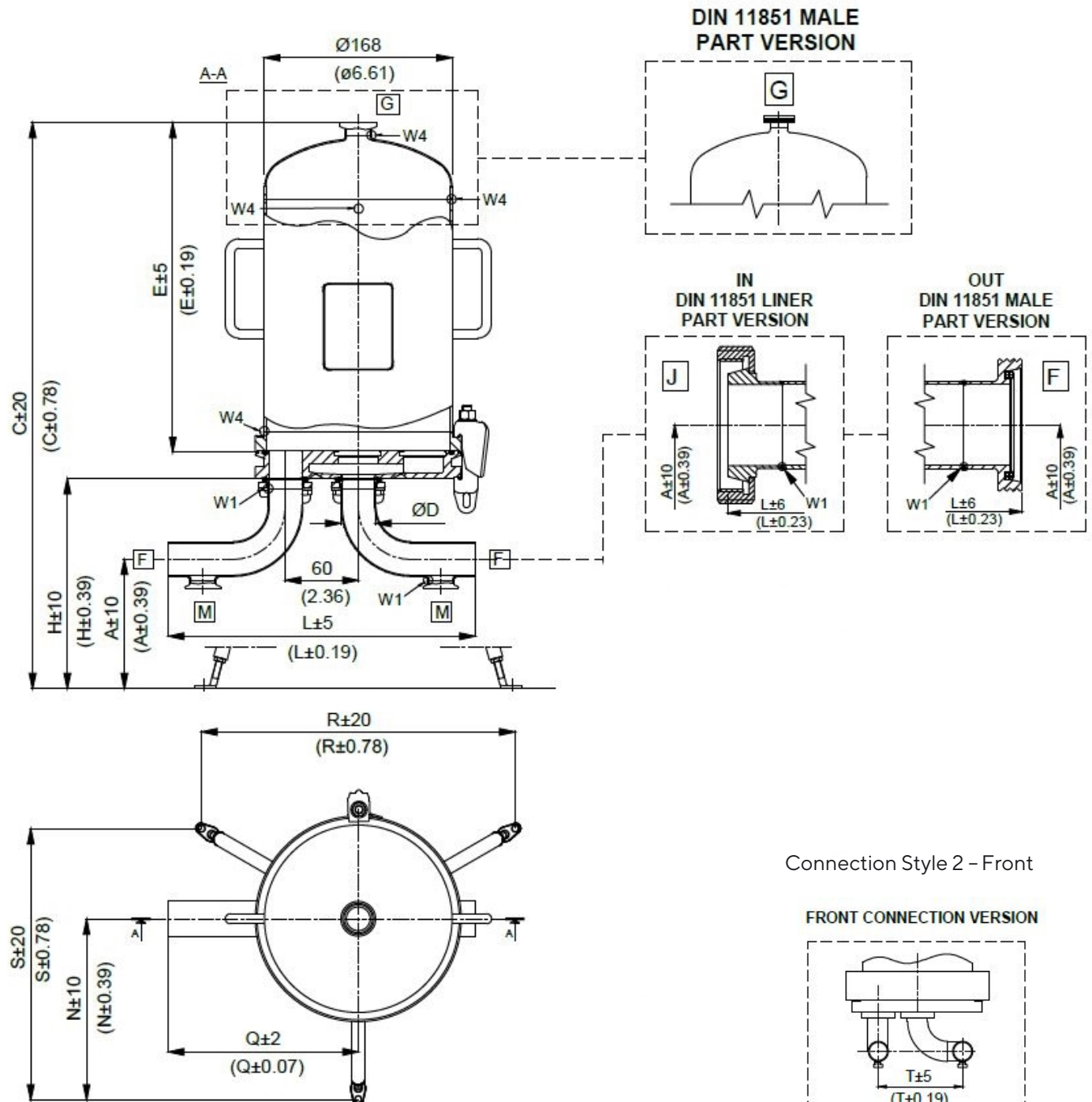
| DIMENSIONAL DATA                       |            |             |             |             |
|----------------------------------------|------------|-------------|-------------|-------------|
| CARTRIDGES NUMBER x HEIGHT             | 01 x 10"   | 01 x 20"    | 01 x 30"    | 01 x 40"    |
| TOTAL VESSEL VOLUME [litres]/[gallons] | 3.0(0.79)  | 4.8(1.26)   | 6.7(1.77)   | 8.6(2.27)   |
| C [mm]/[inch]                          | 790(29.92) | 1040(40.94) | 1290(50.78) | 1540(60.62) |
| E [mm]/[inch]                          | 340(13.38) | 580(22.83)  | 830(32.67)  | 1080(42.51) |

| PED CATEGORY ( IN ACCORDANCE TO PED 2014/68/EU ) |          |          |          |          |
|--------------------------------------------------|----------|----------|----------|----------|
| CARTRIDGES NUMBER x HEIGHT                       | 01 x 10" | 01 x 20" | 01 x 30" | 01 x 40" |
| PED CATEGORY                                     | Art. 4.3 | I        | I        | I        |

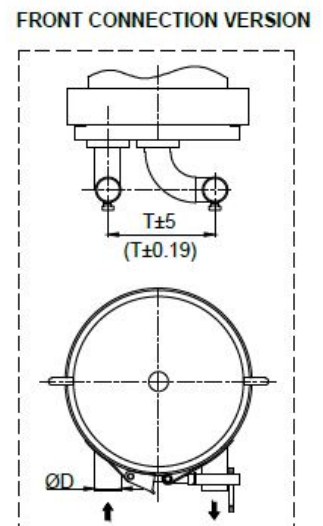
| Spare Parts |                                       |            |
|-------------|---------------------------------------|------------|
| Pos.        | Description                           | Part No.   |
| 1.1         | Housing Bowl 10"                      | -          |
| 1.2         | Housing Bowl 20"                      | -          |
| 1.3         | Housing Bowl 30"                      | -          |
| 1.4         | Housing Bowl 40"                      | -          |
| 2           | Clamp 4"                              | 8ZSLA-0002 |
| 3           | Cartridge Plate & Bends               | -          |
| 4.1         | Gasket Clamp 4" - Silicone [Standard] | 8ZDSC-0001 |
| 4.2         | Gasket Clamp 4" - EPDM                | 8ZDSC-0001 |
| 5           | Leg                                   | -          |
| 6           | Protection Ring                       | -          |
| 7           | Spring                                | -          |
| 8           | Adapter (Only For Code 28)            | -          |

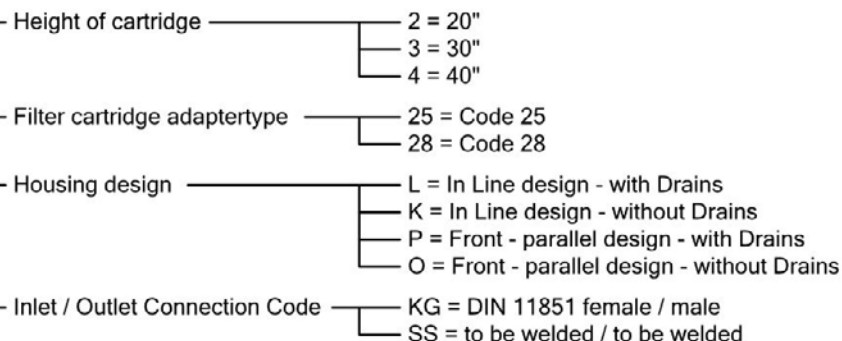


### Connection Style 1 – In Line



### Connection Style 2 – Front



**Order Numbers**813 03  B    040 L

| Inlet & Outlet Dimension |           |                |           |     |     |     |             |           |     |     |     |
|--------------------------|-----------|----------------|-----------|-----|-----|-----|-------------|-----------|-----|-----|-----|
|                          |           | Without Drains |           |     |     |     | With Drains |           |     |     |     |
| Inlet   Outlet           | Pipe Size | Ø              | A         | L   | T   | Q   | Ø           | A         | L   | T   | Q   |
| DIN 11851 Liner   Male   | DN40      | 38.1           | 313 - 361 | 344 | 209 | 161 | 38.1        | 313 - 361 | 419 | 209 | 236 |
| Butt Weld                | 1.5"      | 38.1           | 313 - 361 | 285 | 209 | 135 | 38.1        | 313 - 361 | 360 | 209 | 210 |

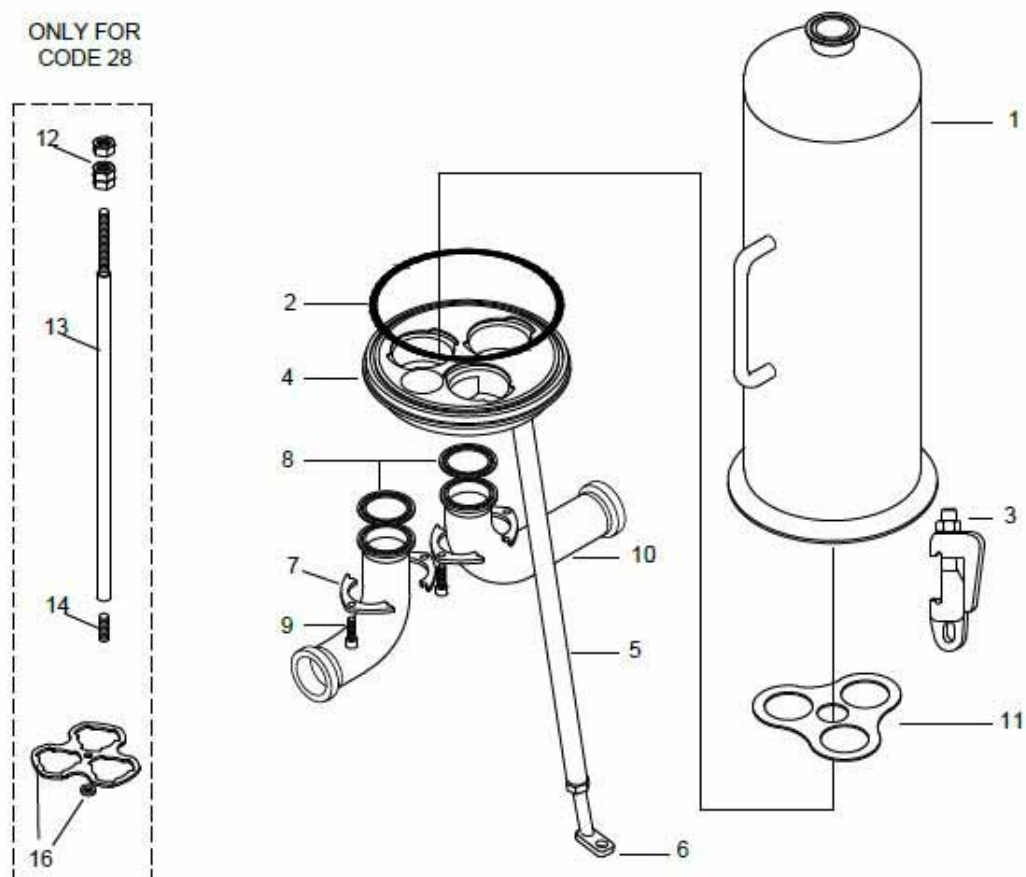
| Drain   Vent Information |                           |
|--------------------------|---------------------------|
| Drain                    | DIN 11851 Male Part DN 25 |
| Vent                     | DIN 11851 Male Part DN 25 |

| TECHNICAL DATA                       |                                                                              |
|--------------------------------------|------------------------------------------------------------------------------|
| SERIES                               | VJR                                                                          |
| NO. CARTRIDGES                       | 03                                                                           |
| ATEX REGULATION                      | II -/2 G Ex h IIC T3....T6 -/Gb X<br>II -/2 D Ex h IIIC 150°C....85°C -/Db X |
| DESIGN CODE                          | EN 13445                                                                     |
| SERVICE CONDITIONS                   |                                                                              |
| PED FLUID GROUP                      | Gr.2 - LIQ,GAS                                                               |
| PRESSURE (PS) min-max                | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                           |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                   |
| PRESSURE (PS) min-max bar (psi)      | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 150°C ( -4° ÷ 302°F)                                                   |
| LIMITED TO CLEAN IN PLACE (CIP)      |                                                                              |
| PED FLUID GROUP                      | Gr.1 - LIQ                                                                   |
| PRESSURE (PS) min-max bar (psi)      | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                                 |
| TEMPERATURE (TS) min-max °C (°F)     | +10 ÷ 80°C ( +50° ÷ 176°F )                                                  |
| VESSEL MATERIAL                      | 316L / 1.4404                                                                |
| HOUSING AND GASKET MATERIAL          | EU 1935/2004 COMPLIANT                                                       |
| EXTERNAL SURFACE BOWL                | MIRROR POLISHED                                                              |
| INTERNAL SURFACE BOWL                | FINE BRUSHED                                                                 |
| EXTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                          |
| INTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                          |
| INTERNAL ROUGHNESS                   | Ra<0.8 µm ( Ra<32 µin )                                                      |

| DIMENSIONAL DATA                       |                          |                            |                            |                            |
|----------------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| CARTRIDGES NUMBER x HEIGHT             | 03 x 10"                 | 03 x 20"                   | 03 x 30"                   | 03 x 40"                   |
| TOTAL VESSEL VOLUME [litres]/[gallons] | 7.3/(16.09)              | 12.6/(27.77)               | 17.8/(39.24)               | 23.1/(50.92)               |
| C [mm]/[inch]                          | 785÷834<br>(30.90÷32.83) | 1035÷1084<br>(40.74÷42.67) | 1285÷1334<br>(50.59÷52.51) | 1535÷1584<br>(60.43÷62.36) |
| E [mm]/[inch]                          | 350 / (13.77)            | 600 / (23.62)              | 850 / (33.46)              | 1100 / (43.30)             |

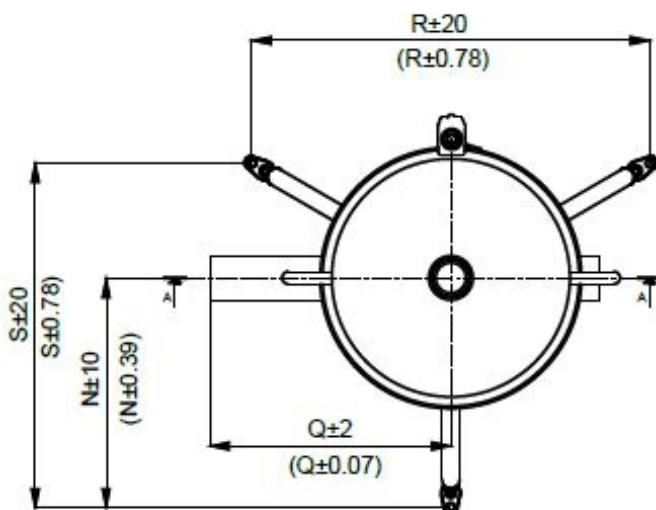
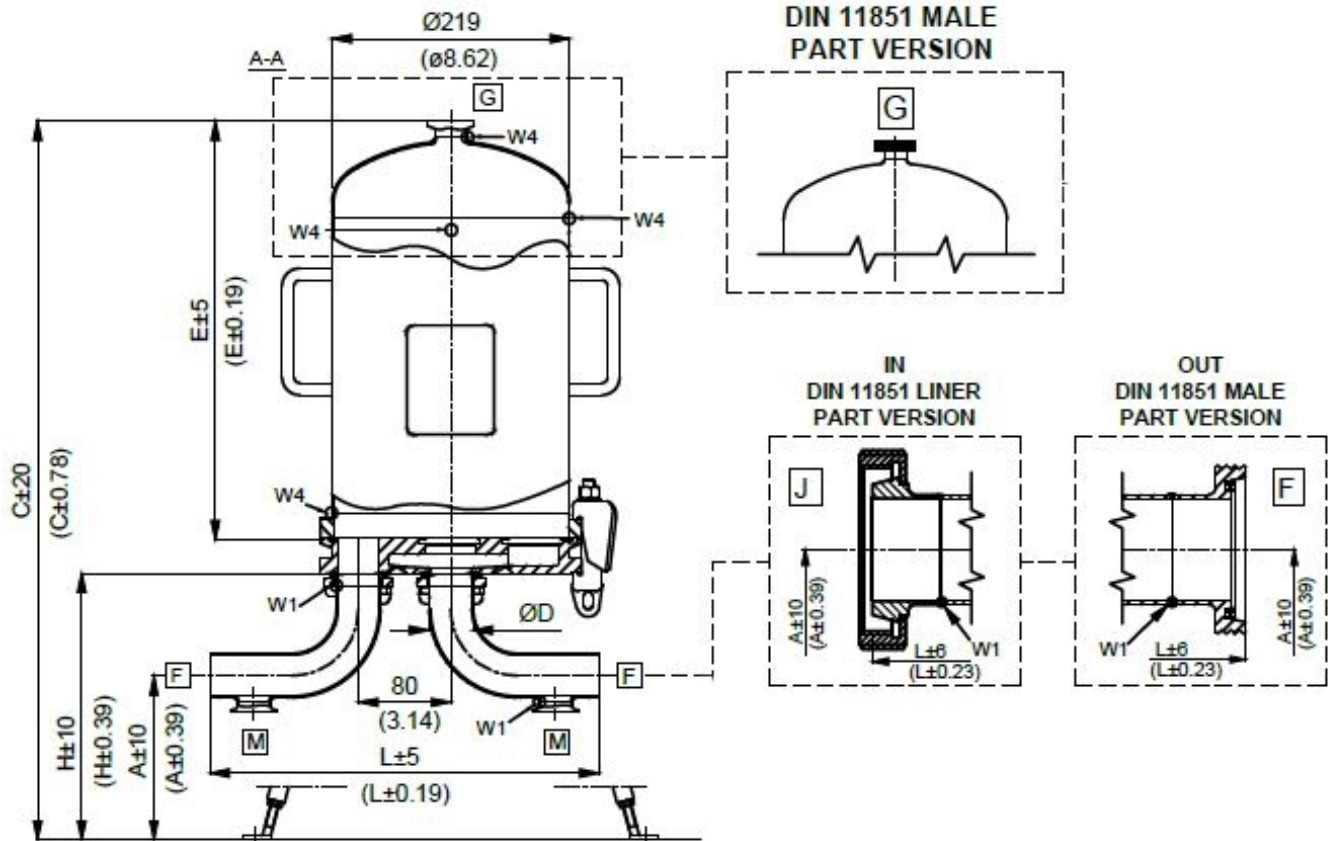
| PED CATEGORY ( IN ACCORDANCE TO PED 2014/68/EU ) |          |          |          |          |
|--------------------------------------------------|----------|----------|----------|----------|
| CARTRIDGES NUMBER x HEIGHT                       | 03 x 10" | 03 x 20" | 03 x 30" | 03 x 40" |
| PED CATEGORY                                     | I        | I        | II       | II       |

| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2           | O-Ring Ø5.34 ID=158.11 - Silicone [Standard] | 8ZDSC-0002 |
| 2.1         | O-Ring Ø5.34 ID=158.11 - EPDM                | 8ZDEC-0002 |
| 3           | Bolt Clamp M16                               | 8ZSL--0009 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8           | Gasket Clamp 2" - PTFE                       | 8ZDPC-0005 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod                                      | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |



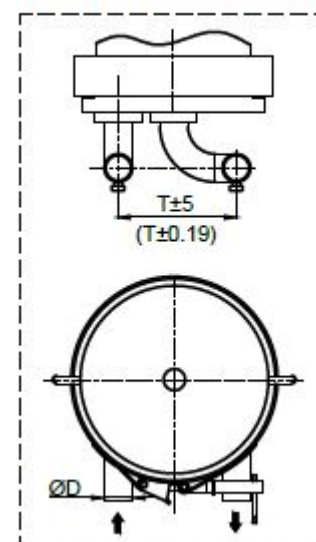


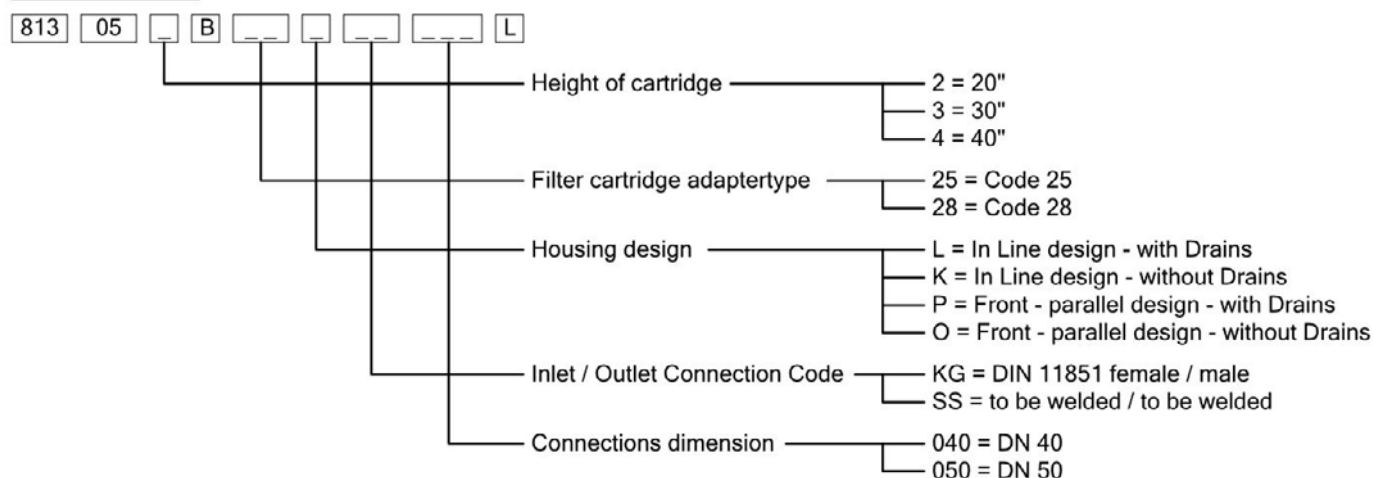
Connection Style 1 – In Line



Connection Style 2 – Front

FRONT CONNECTION VERSION



**Order Numbers**

| Inlet & Outlet Dimension |             |                |          |     |     |     |             |           |     |     |     |
|--------------------------|-------------|----------------|----------|-----|-----|-----|-------------|-----------|-----|-----|-----|
|                          |             | Without Drains |          |     |     |     | With Drains |           |     |     |     |
| Inlet   Outlet           | Pipe Size   | Ø              | A        | L   | T   | Q   | Ø           | A         | L   | T   | Q   |
| DIN 11851 Liner   Male   | DN40        | 38.1           | 315-363  | 364 | 229 | 181 | 38.1        | 315 - 363 | 439 | 229 | 256 |
| DIN 11851 Liner   Male   | DN50        | 50.8           | 285-333  | 416 | 286 | 211 | 50.8        | 285-333   | 483 | 229 | 278 |
| Butt Weld                | 1.5" (DN40) | 38.1           | 315-363  | 305 | 229 | 155 | 38.1        | 315 -363  | 380 | 229 | 230 |
| Butt Weld                | 2" (DN50)   | 50.8           | 285 -333 | 353 | 286 | 183 | 50.8        | 285 -333  | 420 | 286 | 250 |

| Drain   Vent Information |                           |
|--------------------------|---------------------------|
| Drain                    | DIN 11851 Male Part DN 25 |
| Vent                     | DIN 11851 Male Part DN 25 |

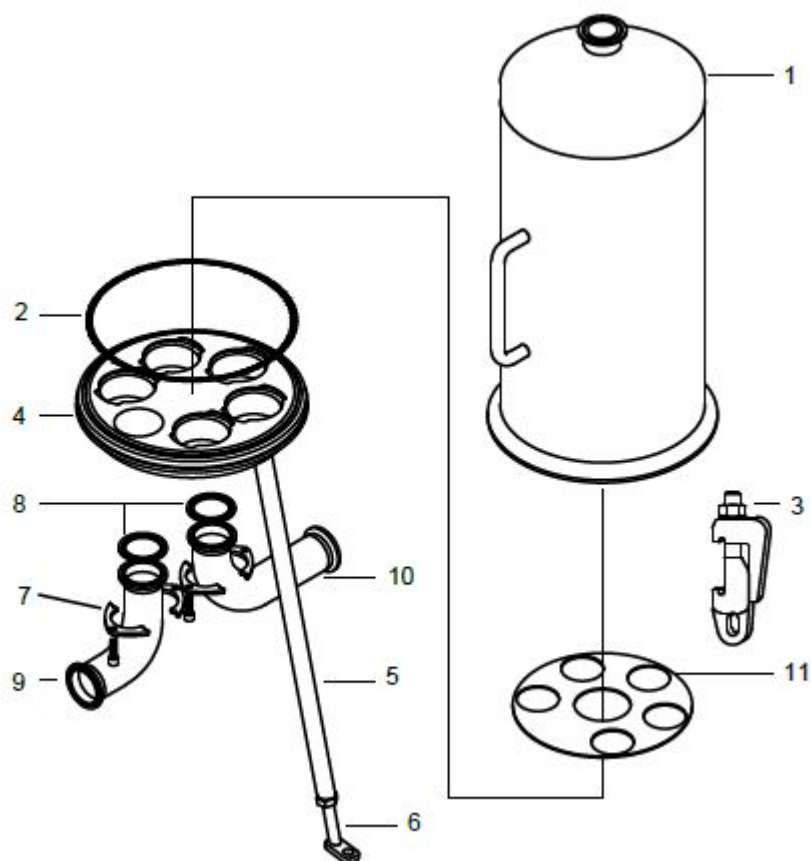
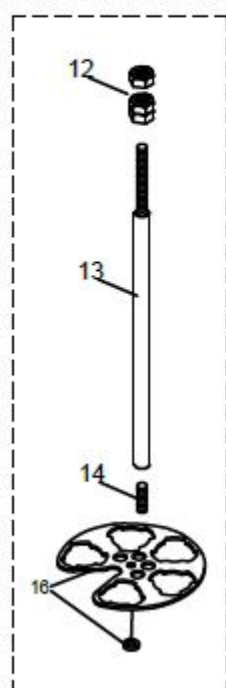
| TECHNICAL DATA                       |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| SERIES                               | VJR                                                                         |
| NO. CARTRIDGES                       | 05                                                                          |
| ATEX REGULATION                      | II -/2 G Ex h IIC T3....T6 -/Gb X<br>II -/2 D Ex h IIC 150°C....85°C -/Db X |
| DESIGN CODE                          | EN 13445                                                                    |
| SERVICE CONDITIONS                   |                                                                             |
| PED FLUID GROUP                      | Gr.2 - LIQ,GAS                                                              |
| PRESSURE (PS) min-max                | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                          |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                  |
| PRESSURE (PS) min-max bar (psi)      | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 150°C ( -4° ÷ 302°F )                                                 |
| LIMITED TO CLEAN IN PLACE (CIP)      |                                                                             |
| PED FLUID GROUP                      | Gr.1 - LIQ                                                                  |
| PRESSURE (PS) min-max bar (psi)      | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F)     | +10 ÷ 80°C ( +50° ÷ 176°F )                                                 |
| VESSEL MATERIAL                      | 316L / 1.4404                                                               |
| HOUSING AND GASKET MATERIAL          | EU 1935/2004 COMPLIANT                                                      |
| EXTERNAL SURFACE BOWL                | MIRROR POLISHED                                                             |
| INTERNAL SURFACE BOWL                | FINE BRUSHED                                                                |
| EXTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL ROUGHNESS                   | Ra<0.8 µm ( Ra<32 µin )                                                     |

| DIMENSIONAL DATA                       |                          |                            |                            |                            |
|----------------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| CARTRIDGES NUMBER x HEIGHT             | 05 x 10"                 | 05 x 20"                   | 05 x 30"                   | 05 x 40"                   |
| TOTAL VESSEL VOLUME [litres]/[gallons] | 11/(2.90)                | 20/(5.28)                  | 29.1/(7.68)                | 38.2/(10.09)               |
| C [mm]/[inch]                          | 797÷846<br>(31.37÷33.30) | 1047÷1096<br>(41.22÷43.14) | 1297÷1346<br>(51.06÷52.99) | 1547÷1596<br>(60.90÷62.83) |
| E [mm]/[inch]                          | 360/(14.17)              | 610/(24.01)                | 860/(33.85)                | 1110/(43.70)               |

| PED CATEGORY ( IN ACCORDANCE TO PED 2014/68/EU ) |          |          |          |          |
|--------------------------------------------------|----------|----------|----------|----------|
| CARTRIDGES NUMBER x HEIGHT                       | 05 x 10" | 05 x 20" | 05 x 30" | 05 x 40" |
| PED CATEGORY                                     | I        | II       | II       | II       |

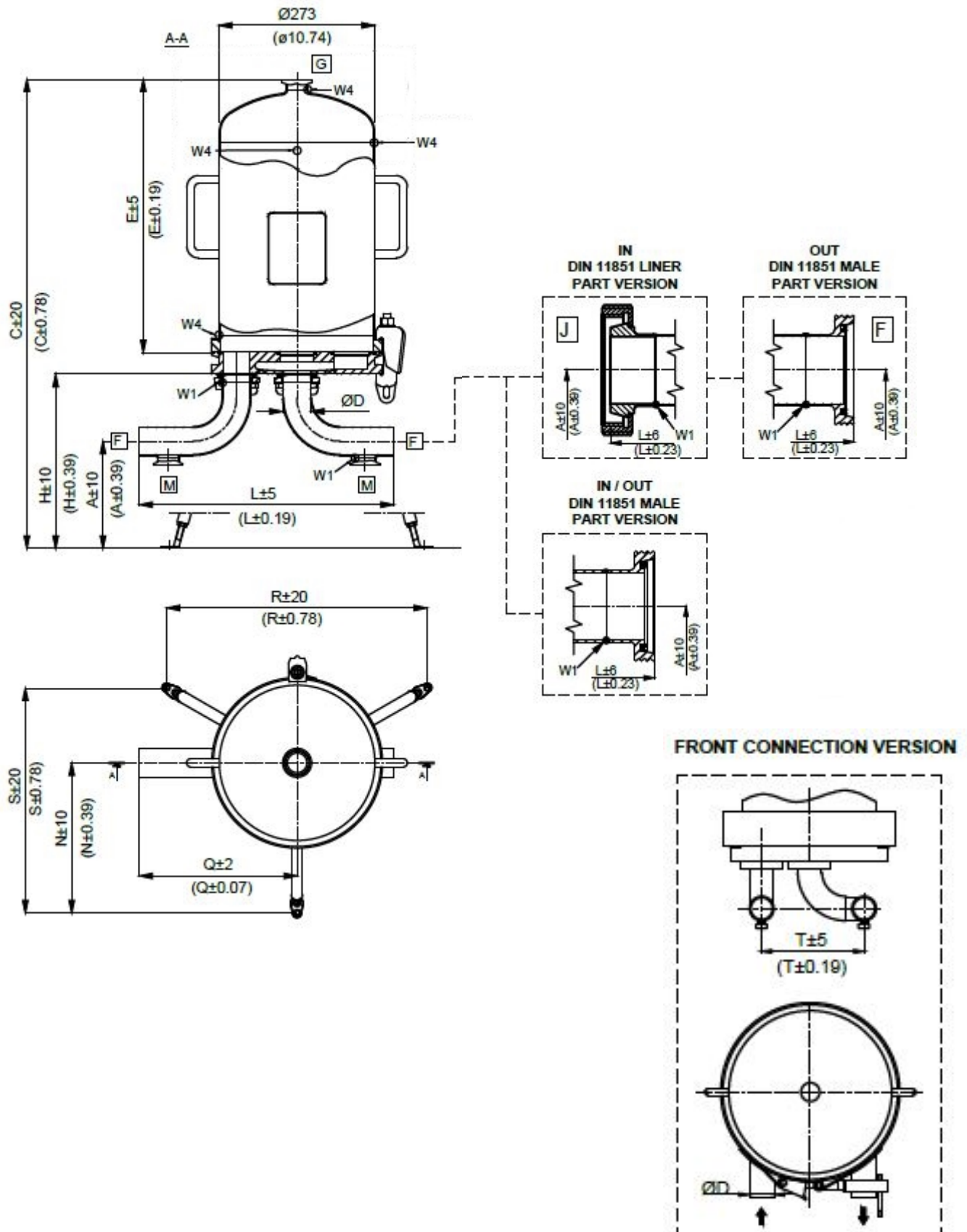
| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2           | O-Ring Ø5.34 ID=208.91 - Silicone [Standard] | 8ZDSC-0004 |
| 2.1         | O-Ring Ø5.34 ID=208.91 - EPDM                | 8ZDEC-0004 |
| 3           | Bolt Clamp M16                               | 8ZSL--0009 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8           | Gasket Clamp 2" - PTFE                       | 8ZDPC-0005 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod                                      | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |

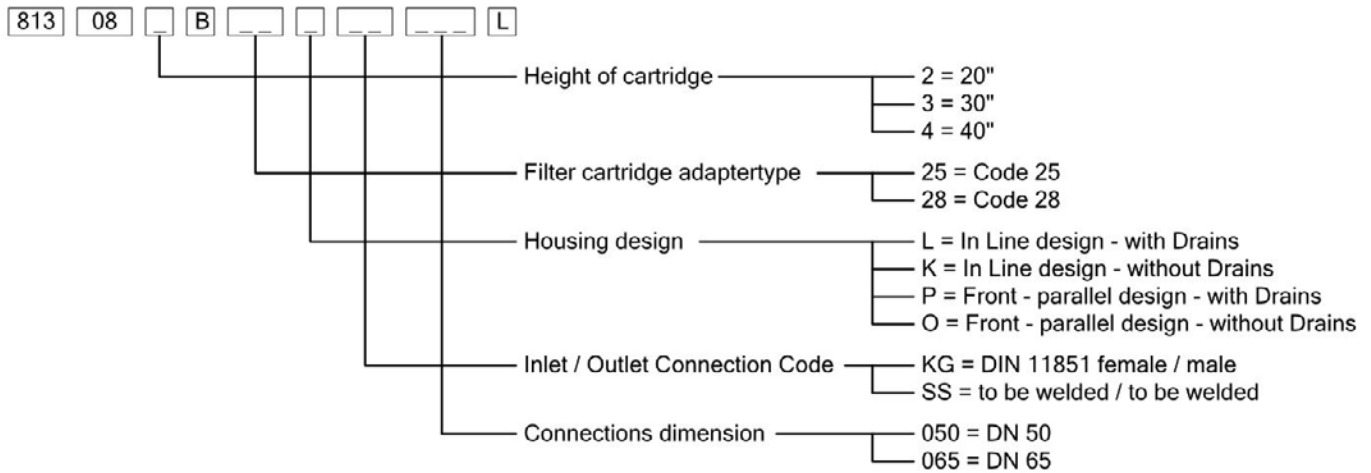
## ONLY FOR CODE 28





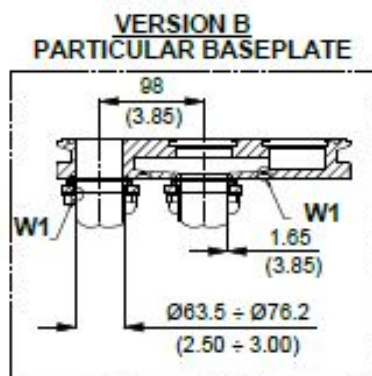
## Connection Style 1 - In Line



**Order Numbers**

| Inlet & Outlet Dimension |           |            |                |         |     |     |     |             |         |     |     |     |
|--------------------------|-----------|------------|----------------|---------|-----|-----|-----|-------------|---------|-----|-----|-----|
| Inlet   Outlet           | Pipe Size | Base Plate | Without Drains |         |     |     |     | With Drains |         |     |     |     |
|                          |           | Version    | Ø              | A       | L   | T   | Q   | Ø           | A       | L   | T   | Q   |
| DIN 11851 Liner   Male   | DN50      | A          | 50.8           | 284-332 | 442 | 25  | 207 | 50.8        | 314-362 | 508 | 312 | 304 |
| DIN 11851 Liner   Male   | DN65      | -          | -              | -       | -   | -   | -   | -           | -       | -   | -   | -   |
| Butt Weld                | DN50      | A          | 50.8           | 284-332 | 379 | 312 | 209 | 50.8        | 284-332 | 446 | 312 | 273 |
| Butt Weld                | DN65      | B          | 63.5           | 255-303 | 442 | 362 | 230 | 63.5        | 255-303 | 552 | 362 | 310 |

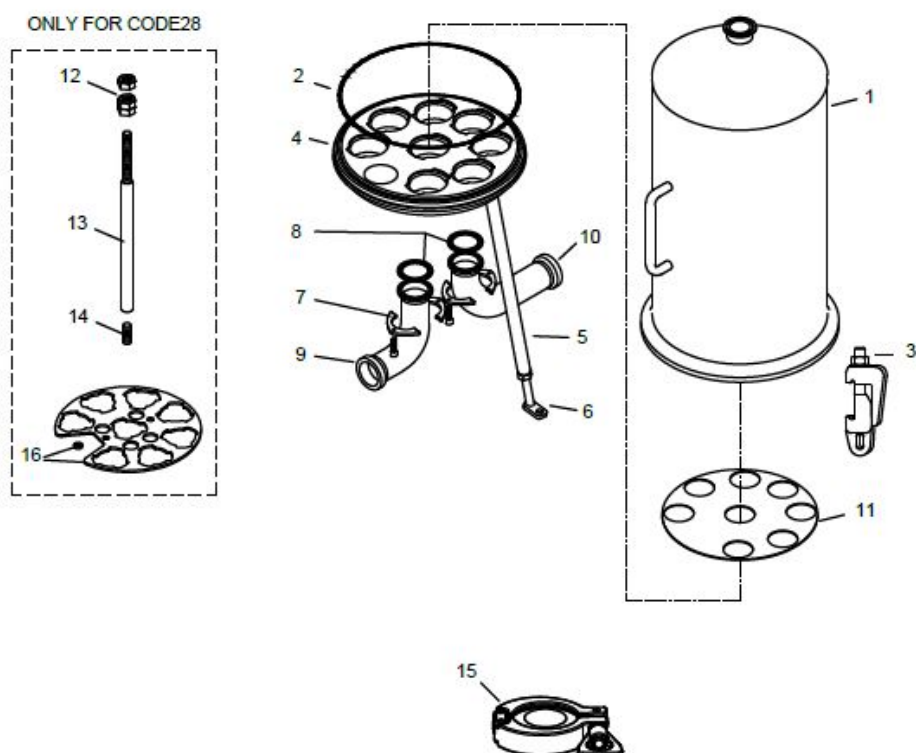
| Drain   Vent Information |                           |
|--------------------------|---------------------------|
| Drain                    | DIN 11851 Male Part DN 25 |
| Vent                     | DIN 11851 Male Part DN 25 |



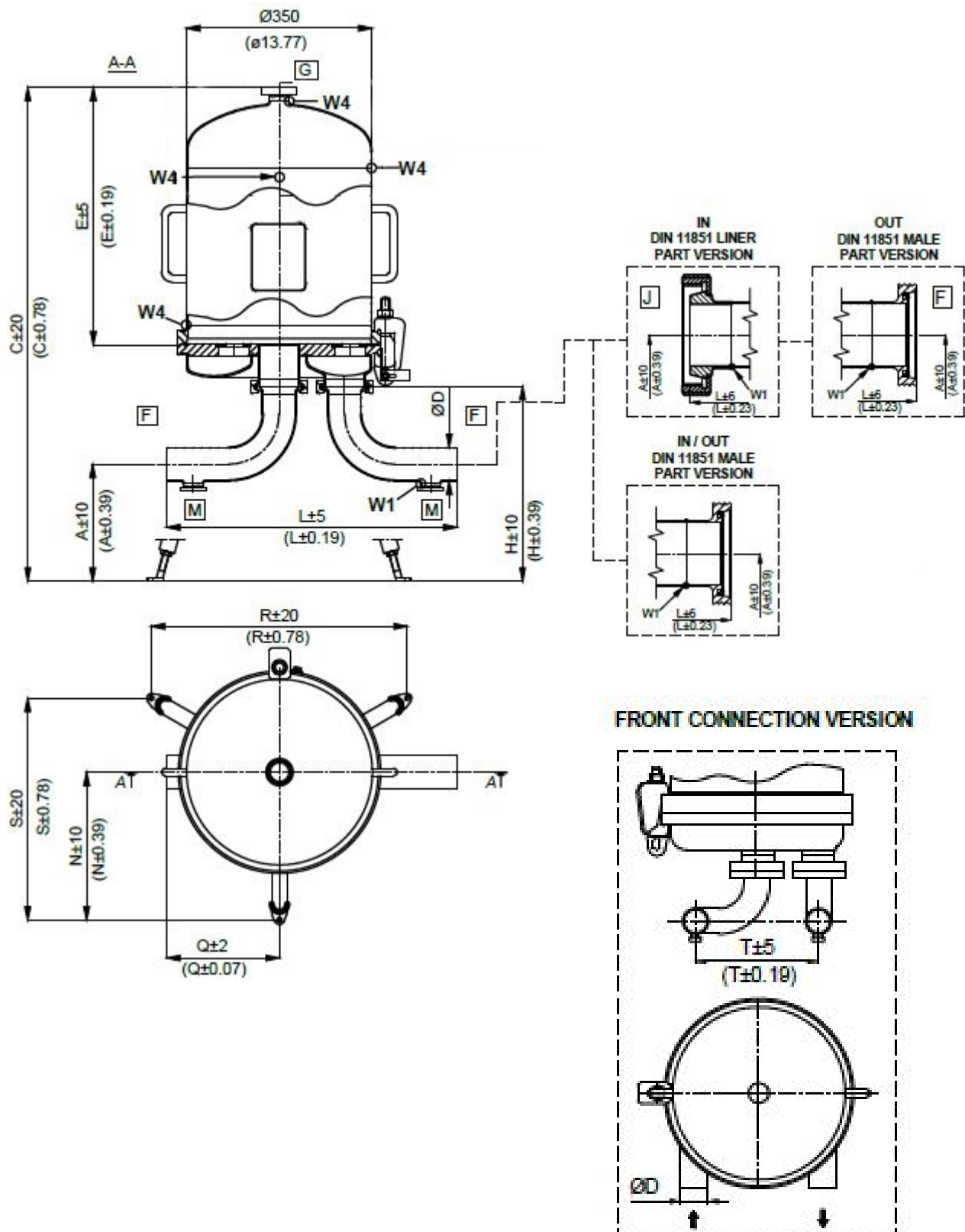
| TECHNICAL DATA                   |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| SERIES                           | VJR                                                                       |
| NO. CARTRIDGES                   | 08                                                                        |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                  |
| SERVICE CONDITIONS               |                                                                           |
| PED FLUID GROUP                  | Gr.2 - LIQ, GAS                                                           |
| PRESSURE (PS) min-max            | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                        |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                |
| PRESSURE (PS) min-max bar (psi)  | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 150°C ( -4° ÷ 302°F )                                               |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                           |
| PED FLUID GROUP                  | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)  | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F) | +10 ÷ 80°C ( +50° ÷ 176°F )                                               |
| VESSEL MATERIAL                  | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                              |
| EXTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )                                                   |

| DIMENSIONAL DATA                          |                          |                            |                            |                            |
|-------------------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| CARTRIDGES NUMBER x HEIGHT                | 08 x 10"                 | 08 x 20"                   | 08 x 30"                   | 08 x 40"                   |
| TOTAL VESSEL VOLUME<br>[litres]/[gallons] | 21.3/(5.82)              | 35.5/(9.37)                | 49.7/(13.12)               | 63.9/(16.88)               |
| C [mm]/[inch] - VERSION A                 | 817÷866<br>(32.16÷34.09) | 1067÷1116<br>(42.00÷43.93) | 1317÷1366<br>(51.85÷53.77) | 1567÷1616<br>(61.69÷63.62) |
| C [mm]/[inch] - VERSION B                 | 826÷875<br>(32.51÷34.44) | 1076÷1125<br>(42.36÷44.29) | 1326÷1375<br>(52.20÷54.13) | 1576÷1625<br>(62.04÷63.97) |
| E [mm]/[inch]                             | 380/(14.96)              | 630/(24.80)                | 880/(34.64)                | 1130/(44.48)               |

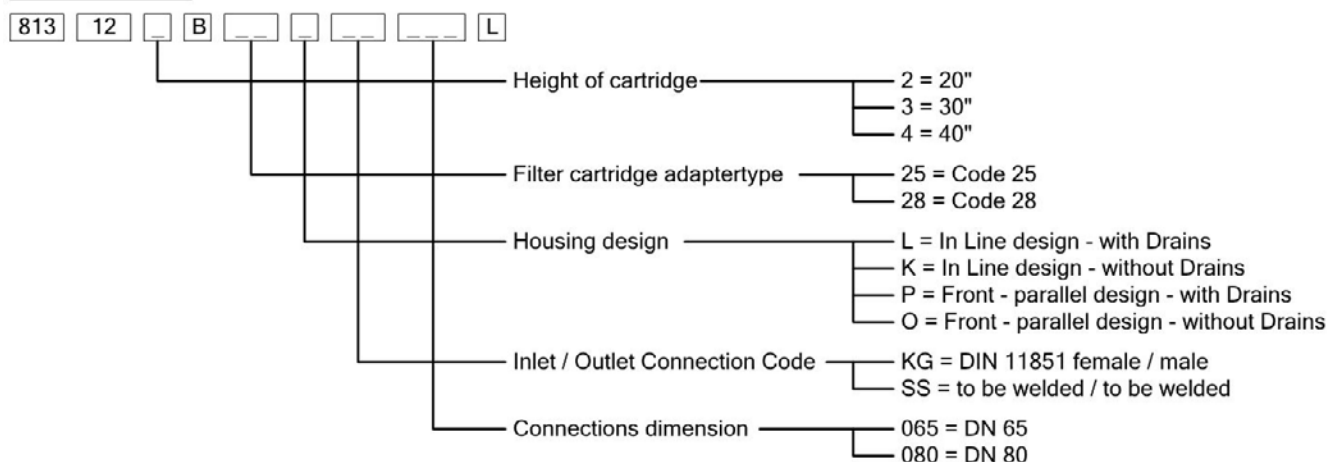
| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2.1         | O-Ring Ø5.34 ID=266.06 - Silicone [Standard] | 8ZDSC-0006 |
| 2.2         | O-Ring Ø5.34 ID=266.06 - EPDM                | 8ZDEC-0006 |
| 3           | Bolt Clamp M16                               | 8ZSL--0009 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8.1         | Gasket Clamp 2" - PTFE (Inlet Outlet ≤2")    | 8ZDPC-0005 |
| 8.2         | Gasket Clamp 3" - PTFE (Inlet Outlet >2")    | 8ZDPC-0008 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod 30"                                  | -          |
|             | Tie Rod 40"                                  | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |



## Connection Style 1 - In Line





**Order Numbers**

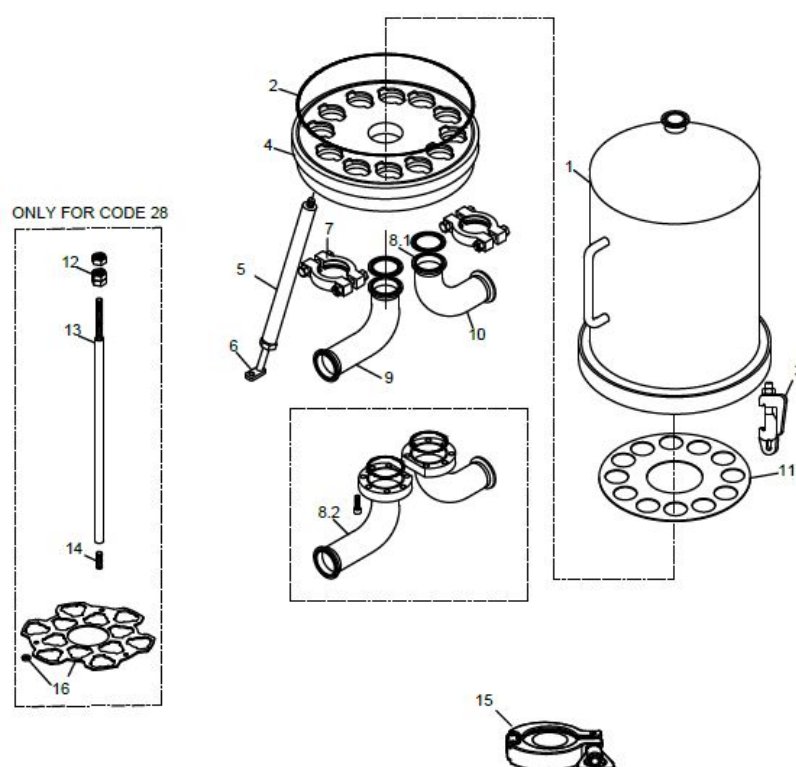
| Inlet & Outlet Dimension |           |                |         |     |     |     |             |         |     |     |     |
|--------------------------|-----------|----------------|---------|-----|-----|-----|-------------|---------|-----|-----|-----|
| Inlet   Outlet           | Pipe Size | Without Drains |         |     |     |     | With Drains |         |     |     |     |
|                          |           | Ø              | A       | L   | T   | Q   | Ø           | A       | L   | T   | Q   |
| DIN 11851 Liner   Male   | DN65      | 63.5           | 314-394 | 540 | 387 | 245 | 63.5        | 314-394 | 620 | 387 | 245 |
| DIN 11851 Liner   Male   | DN80      | 76.2           | 286-366 | 596 | 444 | 239 | 76.2        | 286-366 | 676 | 444 | 239 |
| Butt Weld                | DN65      | 63.5           | 314-394 | 467 | 387 | 212 | 63.5        | 314-394 | 547 | 387 | 212 |
| Butt Weld                | DN80      | 76.2           | 286-366 | 523 | 444 | 240 | 76.2        | 286-366 | 603 | 444 | 240 |

| Drain   Vent Information |                           |
|--------------------------|---------------------------|
| Drain                    | DIN 11851 Male Part DN 25 |
| Vent                     | DIN 11851 Male Part DN 25 |

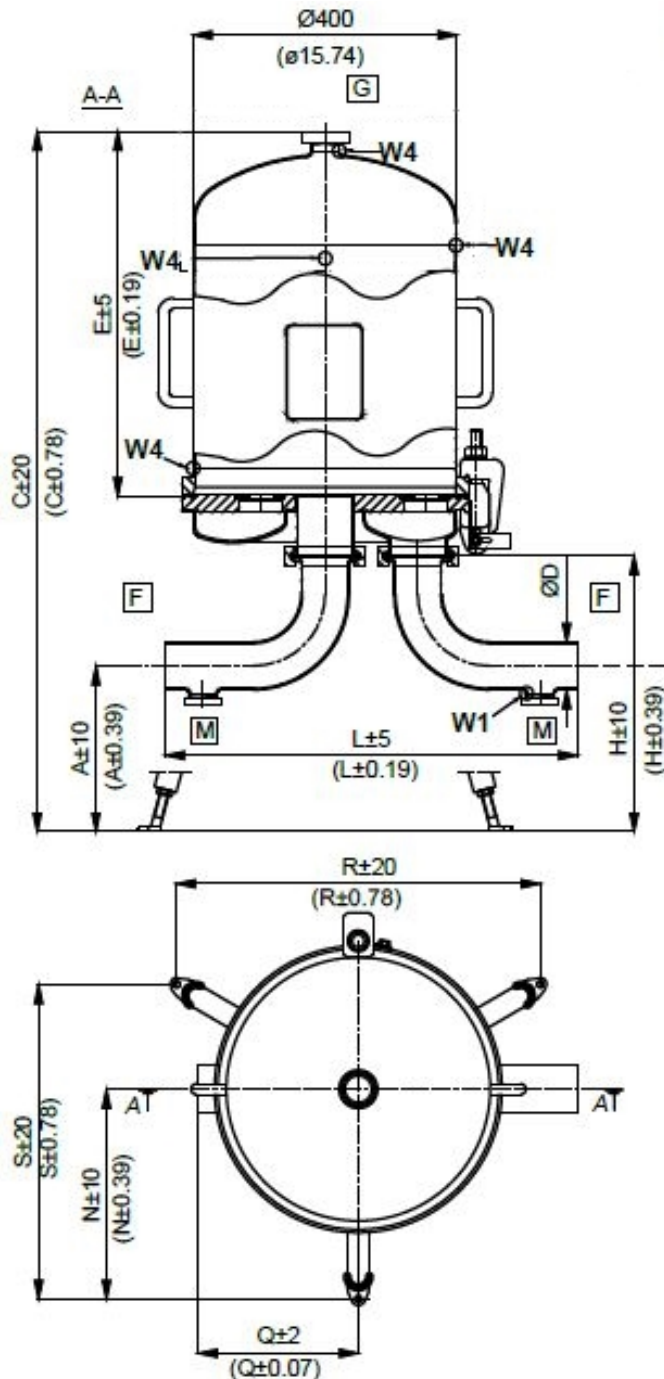
| TECHNICAL DATA                   |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| SERIES                           | VJR                                                                       |
| NO. CARTRIDGES                   | 12                                                                        |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                  |
| SERVICE CONDITIONS               |                                                                           |
| PED FLUID GROUP                  | Gr.2 - LIQ, GAS                                                           |
| PRESSURE (PS) min-max            | -1 ÷ 13 bar ( -14.5 ÷ 188.65 psi )                                        |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                |
| PRESSURE (PS) min-max bar (psi)  | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 150°C ( -4° ÷ 302°F )                                               |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                           |
| PED FLUID GROUP                  | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)  | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F) | +10 ÷ 80°C ( +50° ÷ 176°F )                                               |
| VESSEL MATERIAL                  | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                              |
| EXTERNAL SURFACE                 |                                                                           |
| BASEPLATE AND BENDS              | MECHANICAL POLISHED                                                       |
| INTERNAL SURFACE                 |                                                                           |
| BASEPLATE AND BENDS              | MECHANICAL POLISHED                                                       |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )                                                   |

| DIMENSIONAL DATA                   |                          |                            |                            |                            |
|------------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| CARTRIDGES NUMBER x HEIGHT         | 12 x 10"                 | 12 x 20"                   | 12 x 30"                   | 12 x 40"                   |
| TOTAL VESSEL VOLUME [litres]/[gal] | 41/(10.8)                | 66/(17.43)                 | 88/(23.24)                 | 112/(29.58)                |
| C [mm] / [inch]                    | 912÷992<br>(35.90÷39.05) | 1162÷1242<br>(45.74÷48.89) | 1412÷1492<br>(55.59÷58.74) | 1668÷1748<br>(65.66÷68.81) |
| E [mm] / [inch]                    | 380 / (14.96)            | 630 / (24.80)              | 880 / (34.64)              | 1130 / (44.48)             |

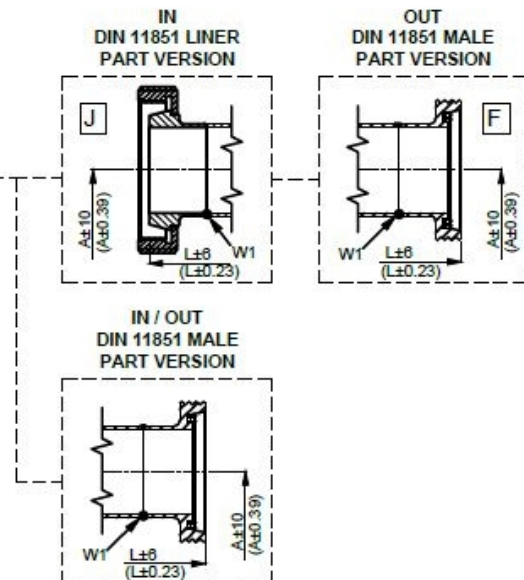
| Spare Parts |                                             |            |
|-------------|---------------------------------------------|------------|
| Pos.        | Description                                 | Part No.   |
| 1           | Housing Bowl                                | -          |
| 2.1         | O-Ring Ø7.00ID=342.30 - Silicone [Standard] | 8ZDSC-0007 |
| 2.2         | O-Ring Ø7.00ID=342.30 - EPDM                | 8ZDEC-0007 |
| 3           | Bolt Clamp M16                              | 8ZSL--0009 |
| 4           | Cartridge Plate                             | -          |
| 5           | Leg                                         | -          |
| 6           | Foot                                        | -          |
| 7           | Bend Flange                                 | -          |
| 8           | Gasket Clamp 3" (DN65) - PTFE               | 8ZDPC-0008 |
| 9           | Inlet Bend                                  | -          |
| 10          | Outlet Bend                                 | -          |
| 11          | Protection Plate                            | -          |
| 12          | Hexagonal Nut                               | -          |
| 13          | Tie Rod 30"                                 | -          |
|             | Tie Rod 40"                                 | -          |
| 14          | Tie Rod Screw                               | -          |
| 15          | Blind Clamp                                 | -          |
| 16          | Adapter (Only For Code 28)                  | -          |



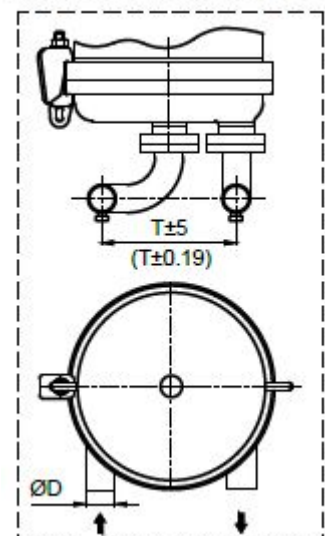
Connection Style 1 - In Line

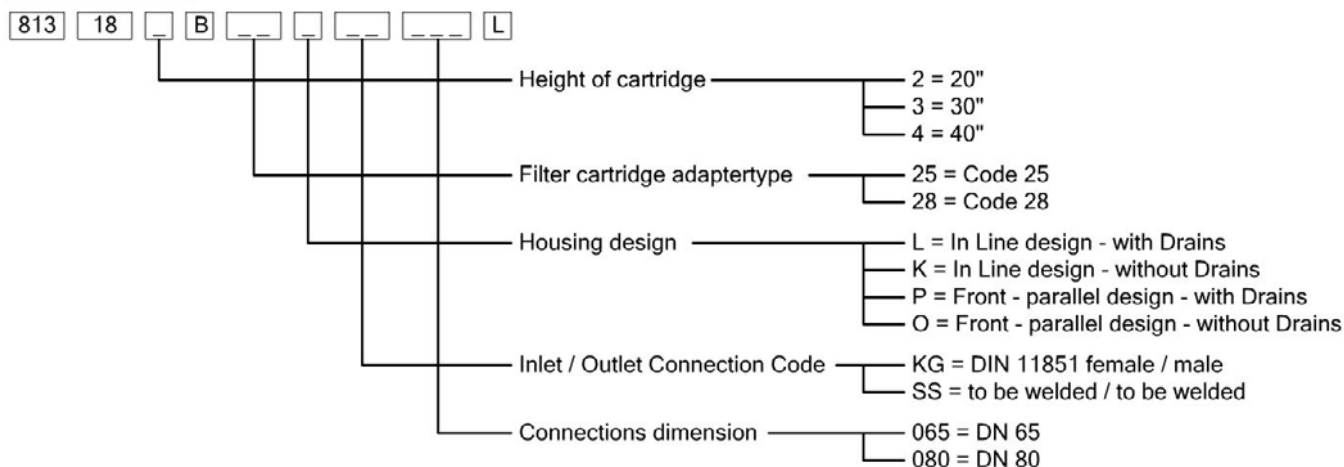


Connection Style 2 - Front



FRONT CONNECTION VERSION



Order Numbers

| Inlet & Outlet Dimension |           |                |         |     |     |     |             |         |     |     |     |
|--------------------------|-----------|----------------|---------|-----|-----|-----|-------------|---------|-----|-----|-----|
| Inlet   Outlet           | Pipe Size | Without Drains |         |     |     |     | With Drains |         |     |     |     |
|                          |           | Ø              | A       | L   | T   | Q   | Ø           | A       | L   | T   | Q   |
| DIN 11851 Liner   Male   | DN65      | 63.5           | 314-394 | 557 | 404 | 245 | 63.5        | 314     | 637 | 404 | 245 |
| DIN 11851 Liner   Male   | DN80      | 76.2           | 286-366 | 613 | 461 | 269 | 76.2        | 286     | 693 | 461 | 269 |
| Butt Weld                | DN65      | 63.5           | 314-394 | 482 | 404 | 212 | 63.5        | 314-394 | 564 | 404 | 212 |
| Butt Weld                | DN80      | 76.2           | 286-366 | 540 | 461 | 240 | 76.2        | 286-366 | 620 | 461 | 240 |

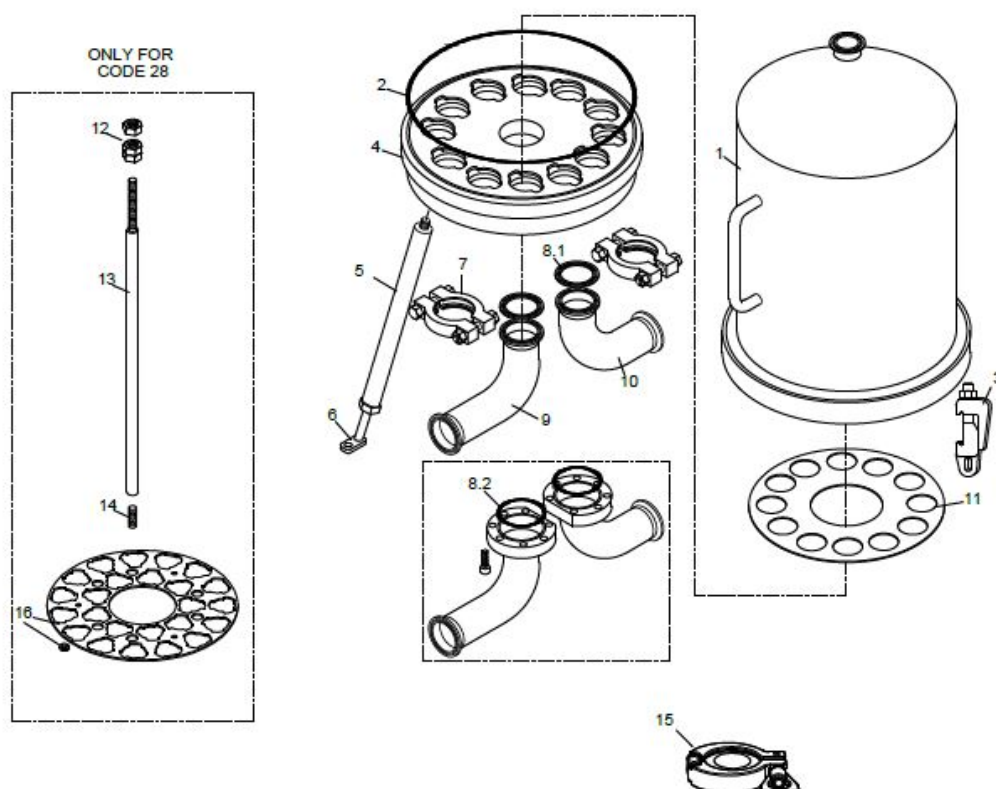
| Drain   Vent Information |                           |
|--------------------------|---------------------------|
| Drain                    | DIN 11851 Male Part DN 25 |
| Vent                     | DIN 11851 Male Part DN 25 |

| TECHNICAL DATA                       |                                                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| SERIES                               | VJR                                                                       |
| NO. CARTRIDGES                       | 18                                                                        |
| ATEX REGULATION                      | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                          | EN 13445                                                                  |
| SERVICE CONDITIONS                   |                                                                           |
| PED FLUID GROUP                      | Gr.2 - LIQ,GAS                                                            |
| PRESSURE (PS) min-max                | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                        |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                |
| PRESSURE (PS) min-max bar (psi)      | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 150°C ( -4° ÷ 302°F )                                               |
| LIMITED TO CLEAN IN PLACE (CIP)      |                                                                           |
| PED FLUID GROUP                      | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)      | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F)     | +10 ÷ 80°C ( +50° ÷ 176°F )                                               |
| VESSEL MATERIAL                      | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL          | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL                | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL                | FINE BRUSHED                                                              |
| EXTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                       |
| INTERNAL ROUGHNESS                   | Ra<0.8 µm ( Ra<32 µin )                                                   |

| DIMENSIONAL DATA                   |                           |                            |                            |                            |
|------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| CARTRIDGES NUMBER x HEIGHT         | 18 x 10"                  | 18 x 20"                   | 18 x 30"                   | 18 x 40"                   |
| TOTAL VESSEL VOLUME [litres]/[gal] | 54/(14.26)                | 85/(22.45)                 | 115/(30.37)                | 146/(38.56)                |
| C [mm] / [inch]                    | 938÷1018<br>(36.92÷40.07) | 1188÷1268<br>(46.77÷49.92) | 1438÷1518<br>(56.61÷59.76) | 1688÷1788<br>(66.45÷70.39) |
| E [mm] / [inch]                    | 390 / (15.35)             | 640 / (25.19)              | 890 / (35.03)              | 1140 / (44.88)             |

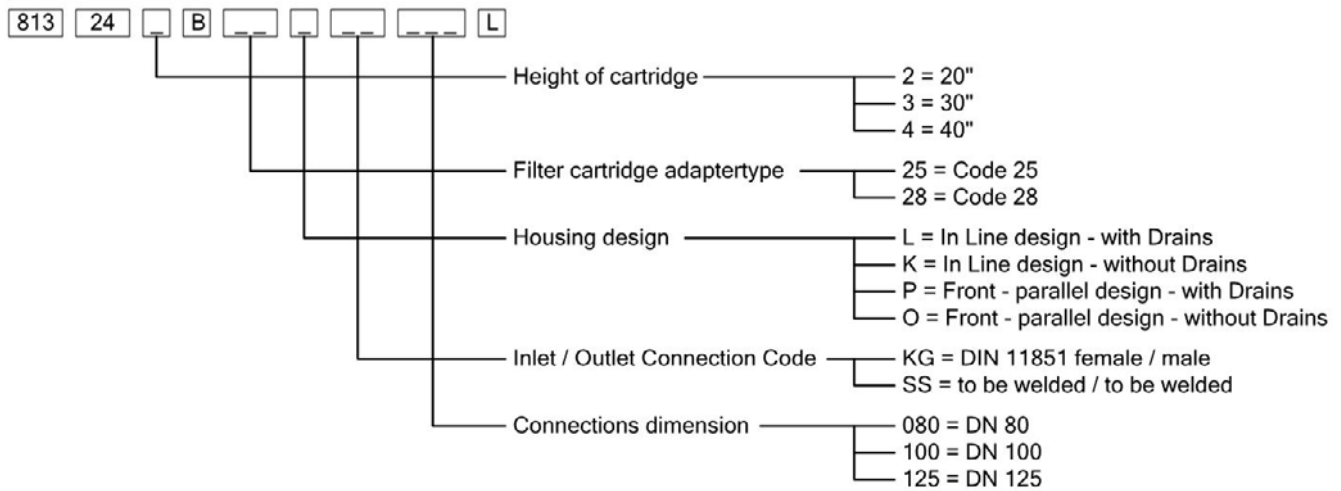


| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2.1         | O-Ring Ø7.00 ID=393.10 - Silicone [Standard] | 8ZDSC-0009 |
| 2.2         | O-Ring Ø7.00ID=393.10 - EPDM                 | 8ZDEC-0009 |
| 3           | Bolt Clamp M20                               | 8ZSL--0015 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8           | Gasket Clamp 3" (DN65) - PTFE                | 8ZDPC-0008 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod 30"                                  | -          |
|             | Tie Rod 40"                                  | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |





## Order Numbers



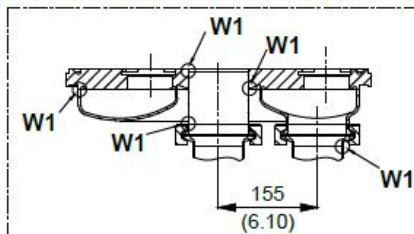
## Inlet &amp; Outlet Dimension

| Inlet   Outlet         | Pipe Size | Base Plate | Without Drains |         |     |     |     | With Drains |         |     |     |     |
|------------------------|-----------|------------|----------------|---------|-----|-----|-----|-------------|---------|-----|-----|-----|
|                        |           | Version    | Ø              | A       | L   | T   | Q   | Ø           | A       | L   | T   | Q   |
| DIN 11851 Liner   Male | DN80      | A          | 76,2           | 273-355 | 621 | 400 | 282 | 76,2        | 273-355 | 702 | 400 | 282 |
| DIN 11851 Liner   Male | DN100     | A          | 101.6          | 280-360 | 625 | 434 | 268 | 101.6       | 280-360 | 705 | 434 | 268 |
| DIN 11851 Liner   Male | DN125     | B          | 129            | 280-360 | 625 | 529 | 268 | 129         | 280-360 | 705 | 529 | 268 |
| Butt Weld              | DN80      | A          | 76.2           | 273-355 | 554 | -   | 239 | 76.2        | 273-355 | 547 | -   | 239 |
| Butt Weld              | DN100     | A          | 101,6          | 280-360 | 534 | -   | 229 | 101,6       | 280-360 | 603 | -   | 229 |

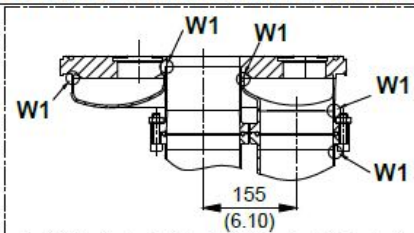
## Drain | Vent Information

|       |                           |
|-------|---------------------------|
| Drain | DIN 11851 Male Part DN 25 |
| Vent  | DIN 11851 Male Part DN 25 |

## VERSION A - PARTICULAR BASEPLATE



## VERSION B - PARTICULAR BASEPLATE



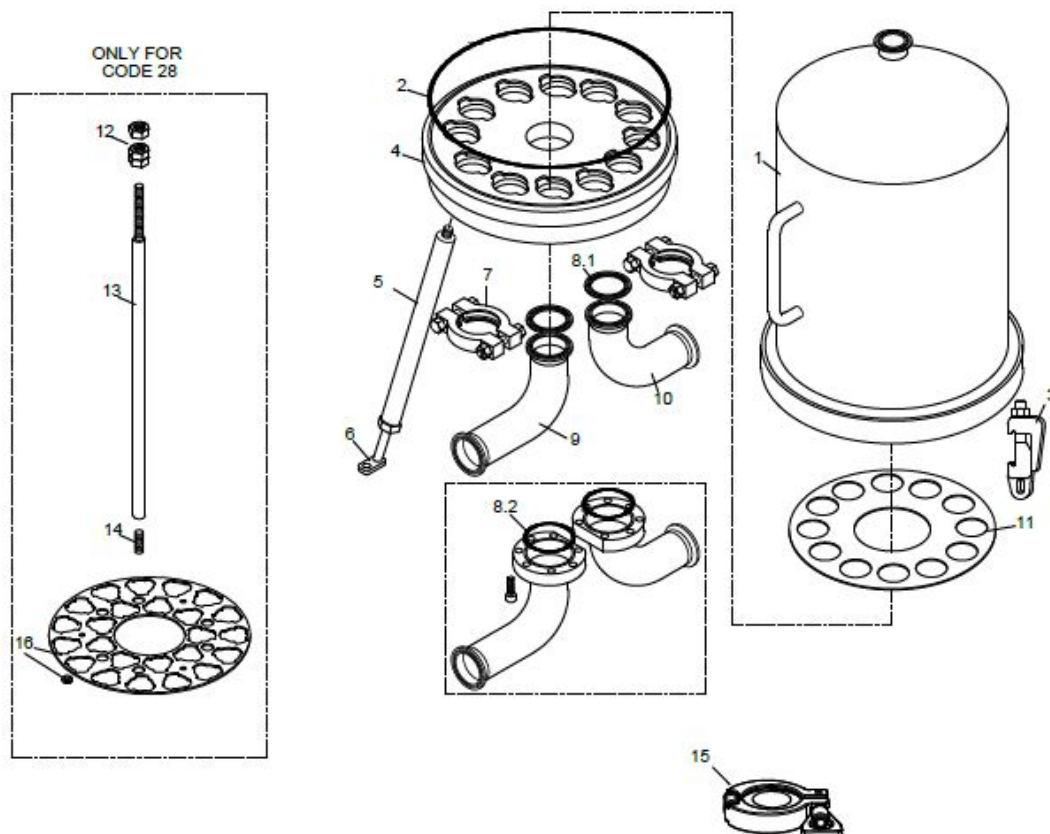
## TECHNICAL DATA

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| SERIES                           | VJR                                                                       |
| NO. CARTRIDGES                   | 24                                                                        |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                  |
| SERVICE CONDITIONS               |                                                                           |
| PED FLUID GROUP                  | Gr.2 - LIQ.GAS                                                            |
| PRESSURE (PS) min-max            | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                        |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                |
| PRESSURE (PS) min-max bar (psi)  | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 150°C ( -4° ÷ 302°F )                                               |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                           |
| PED FLUID GROUP                  | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)  | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F) | +10 ÷ 80°C ( +50° ÷ 176°F )                                               |
| VESEL MATERIAL                   | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                              |
| EXTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )                                                   |

## DIMENSIONAL DATA

| CARTRIDGES NUMBER x HEIGHT         | 24 x 10"                  | 24x 20"                    | 24 x 30"                   | 24 x 40"                   |
|------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| TOTAL VESSEL VOLUME [litres]/[gal] | 73/(19.28)                | 113/(29.85)                | 151/(39.89)                | 190/(50.19)                |
| C [mm] / [inch]                    | 950÷1030<br>(37.40÷40.55) | 1200÷1280<br>(47.24÷50.39) | 1450÷1530<br>(57.08÷60.23) | 1700÷1780<br>(66.92÷70.07) |
| E [mm] / [inch]                    | 392/(15.43)               | 642/(25.27)                | 892/(35.11)                | 1142/(44.98)               |

| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2.1         | O-Ring Ø7.00 ID=443.40 - Silicone [Standard] | 8ZDSC-0010 |
| 2.2         | O-Ring Ø7.00 ID=443.40 - EPDM                | 8ZDEC-0010 |
| 3           | Bolt Clamp M20                               | 8ZSL--0015 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8.1         | Gasket Clamp 3" - PTFE                       | 8ZDPC-0008 |
| 8.2         | O-Ring Flange Ø5,34 ID=136,5 - Silicone      | 8ZDSC-0011 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod 30"                                  | -          |
|             | Tie Rod 40"                                  | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |





**IN  
DIN 11851 LINER  
PART VERSION**

**OUT  
DIN 11851 MALE  
PART VERSION**

**IN / OUT  
DIN 11851 MALE  
PART VERSION**

**Order Numbers**

813 30   B         L

|                                |                                              |
|--------------------------------|----------------------------------------------|
| Height of cartridge            | 2 = 20"                                      |
|                                | 3 = 30"                                      |
|                                | 4 = 40"                                      |
| Filter cartridge adaptertype   | 25 = Code 25                                 |
|                                | 28 = Code 28                                 |
| Housing design                 | L = In Line design - with Drains             |
|                                | K = In Line design - without Drains          |
|                                | P = Front - parallel design - with Drains    |
|                                | O = Front - parallel design - without Drains |
| Inlet / Outlet Connection Code | KG = DIN 11851 female / male                 |
|                                | SS = to be welded / to be welded             |
| Connections dimension          | 100 = DN 100                                 |
|                                | 125 = DN 125                                 |
|                                | 150 = DN 150                                 |

**Inlet & Outlet Dimension**

| Inlet   Outlet         | Pipe Size | Base Plate | Without Drains |     |     |     |     | With Drains |     |     |     |     |
|------------------------|-----------|------------|----------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|
|                        |           | Version    | Ø              | A   | L   | T   | Q   | Ø           | A   | L   | T   | Q   |
| DIN 11851 Liner   Male | DN100     | A          | 101.6          | 310 | 620 | 455 | 395 | 101.6       | 310 | 620 | 455 | 395 |

**Drain | Vent Information**

|       |                           |
|-------|---------------------------|
| Drain | DIN 11851 Male Part DN 25 |
| Vent  | DIN 11851 Male Part DN 25 |

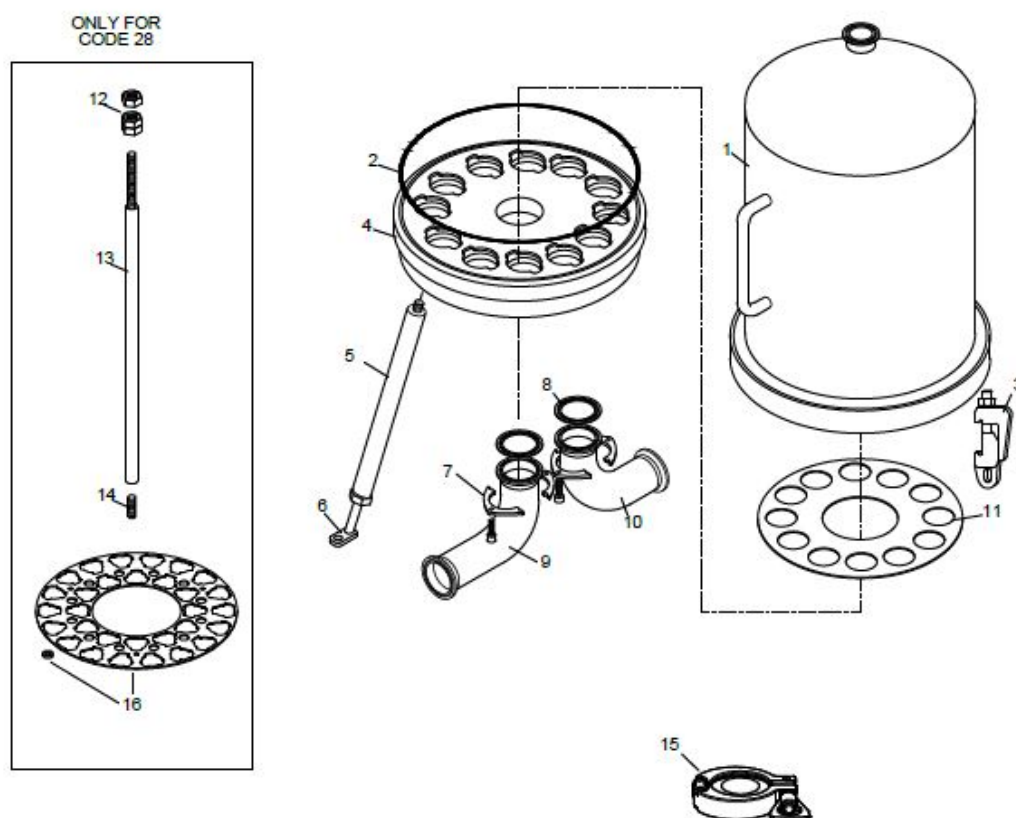
**TECHNICAL DATA**

|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| SERIES                               | VJR                                                                         |
| N° CARTRIDGES                        | 30                                                                          |
| ATEX REGULATION                      | II -/2 G Ex h IIC T3....T8 -/Gb X<br>II -/2 D Ex h IIC 150°C....85°C -/Db X |
| DESIGN CODE                          | EN 13445                                                                    |
| SERVICE CONDITIONS                   |                                                                             |
| PED FLUID GROUP                      | Gr.2 - LIQ.GAS                                                              |
| PRESSURE (PS) min-max                | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                          |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                  |
| PRESSURE (PS) min-max bar (psi)      | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                               |
| TEMPERATURE (TS) min-max °C (°F)     | -20 ÷ 150°C ( -4° ÷ 302°F )                                                 |
| LIMITED TO CLEAN IN PLACE (CIP)      |                                                                             |
| PED FLUID GROUP                      | Gr.1 - LIQ                                                                  |
| PRESSURE (PS) min-max bar (psi)      | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                                |
| TEMPERATURE (TS) min-max °C (°F)     | +10 ÷ 80°C ( +50° ÷ 176°F )                                                 |
| VESSEL MATERIAL                      | 316L / 1.4404                                                               |
| HOUSING AND GASKET MATERIAL          | EU 1935/2004 COMPLIANT                                                      |
| EXTERNAL SURFACE BOWL                | MIRROR POLISHED                                                             |
| INTERNAL SURFACE BOWL                | FINE BRUSHED                                                                |
| EXTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL SURFACE BASEPLATE AND BENDS | MECHANICAL POLISHED                                                         |
| INTERNAL ROUGHNESS                   | Ra<0.8 µm ( Ra<32 µin )                                                     |

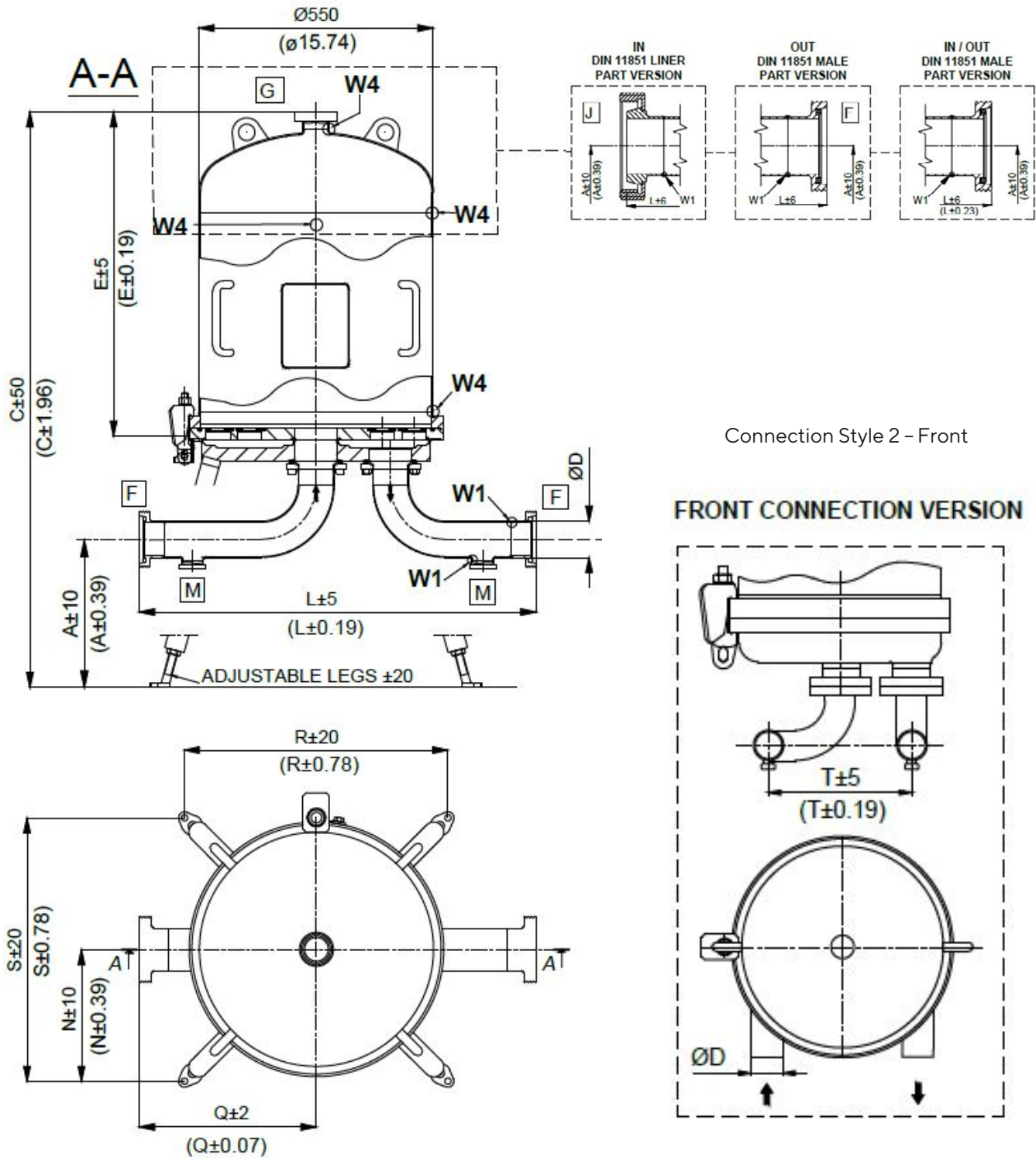
**DIMENSIONAL DATA**

|                                    |                |                |
|------------------------------------|----------------|----------------|
| CARTRIDGES NUMBER x HEIGHT         | 30 x 30"       | 30 x 40"       |
| TOTAL VESSEL VOLUME [litres]/[gal] | -/-            | -/-            |
| C [mm] / [inch]                    | 1500 / (59.05) | 1750 / (68.89) |
| E [mm] / [inch]                    | --             | --             |

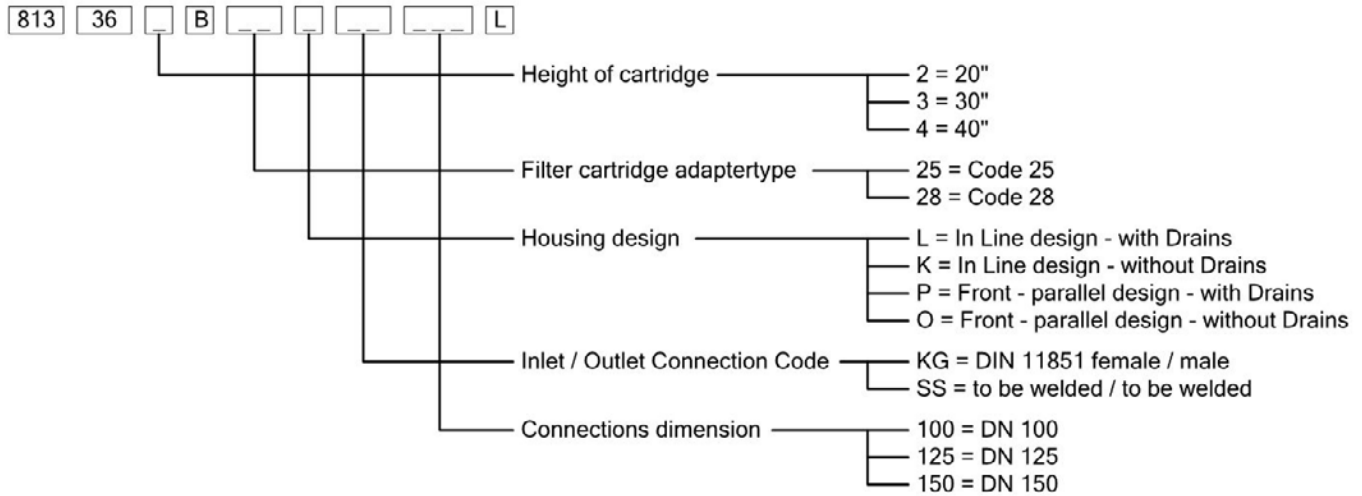
| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2.1         | O-Ring Ø7.00 ID=532.30 - Silicone [Standard] | 8ZDSC-0012 |
| 2.2         | O-Ring Ø7.00 ID=532.30 - EPDM                | 8ZDEC-0012 |
| 3           | Bolt Clamp M20                               | 8ZSL--0015 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8           | Gasket Clamp 3" - PTFE                       | 8ZDPC-0008 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod 30"                                  | -          |
|             | Tie Rod 40"                                  | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |



Connection Style 1 - In Line



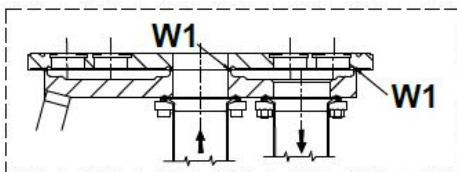


**Order Numbers**

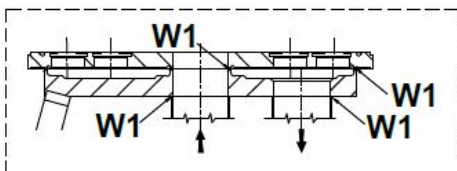
| Inlet & Outlet Dimension |           |            |                |     |     |     |     |             |     |     |     |     |
|--------------------------|-----------|------------|----------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|
| Inlet   Outlet           | Pipe Size | Base Plate | Without Drains |     |     |     |     | With Drains |     |     |     |     |
|                          |           | Version    | Ø              | A   | L   | T   | Q   | Ø           | A   | L   | T   | Q   |
| DIN 11851 Liner   Male   | DN100     | A          | 101.6          | 310 | 607 | 455 | 382 | 101.6       | 310 | 607 | 455 | 382 |
| DIN 11851 Liner   Male   | DN125     | B          | 129            | 310 | 777 | 571 | 382 | 129         | 310 | 777 | 571 | 382 |

| Drain   Vent Information |                           |
|--------------------------|---------------------------|
| Drain                    | DIN 11851 Male Part DN 25 |
| Vent                     | DIN 11851 Male Part DN 25 |

**VERSION "A"**  
PARTICULAR BASEPLATE



**VERSION "B"**  
PARTICULAR BASEPLATE

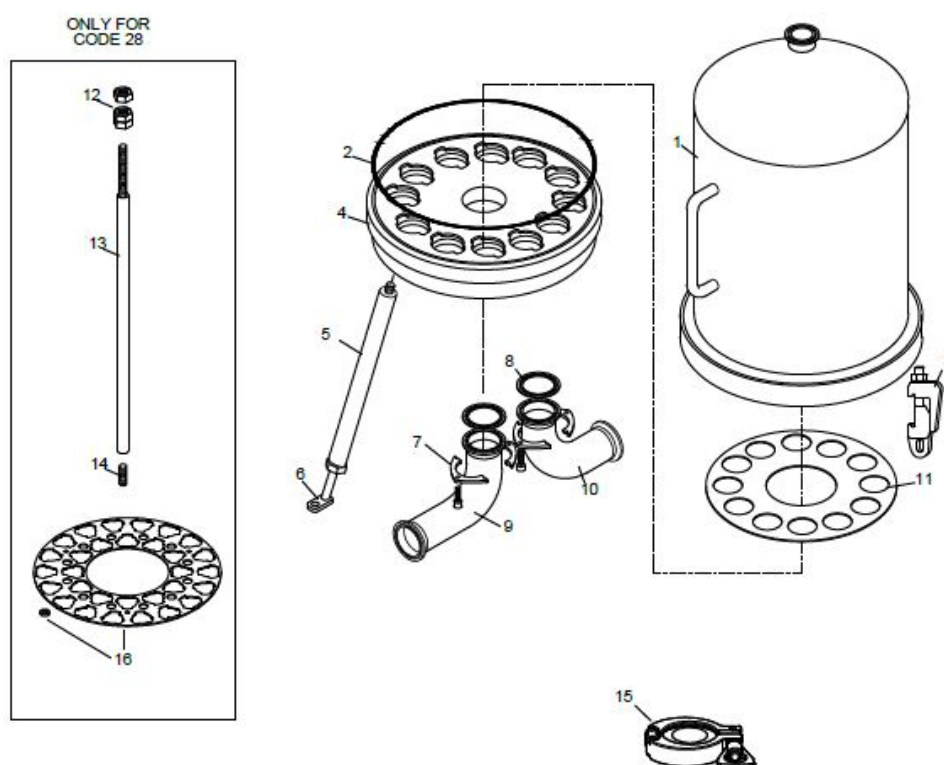
**TECHNICAL DATA**

|                                         |                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------|
| <b>SERIES</b>                           | VJR                                                                        |
| <b>N° CARTRIDGES</b>                    | 36                                                                         |
| <b>ATEX REGULATION</b>                  | II -/2 G Ex h IIC T3...T8 -/Gb X<br>II -/2 D Ex h IIIC 150°C...85°C -/Db X |
| <b>DESIGN CODE</b>                      | EN 13445                                                                   |
| <b>SERVICE CONDITIONS</b>               |                                                                            |
| <b>PED FLUID GROUP</b>                  | Gr.2 - LIQ, GAS                                                            |
| <b>PRESSURE (PS) min-max</b>            | -1 ÷ 13 bar ( -14.5 ÷ 188.55 psi )                                         |
| <b>TEMPERATURE (TS) min-max °C (°F)</b> | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                 |
| <b>PRESSURE (PS) min-max bar (psi)</b>  | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                              |
| <b>TEMPERATURE (TS) min-max °C (°F)</b> | -20 ÷ 150°C ( -4° ÷ 302°F )                                                |
| <b>LIMITED TO CLEAN IN PLACE (CIP)</b>  |                                                                            |
| <b>PED FLUID GROUP</b>                  | Gr.1 - LIQ                                                                 |
| <b>PRESSURE (PS) min-max bar (psi)</b>  | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                               |
| <b>TEMPERATURE (TS) min-max °C (°F)</b> | +10 ÷ 80°C ( +50° ÷ 176°F )                                                |
| <b>VESSEL MATERIAL</b>                  | 316L / 1.4404                                                              |
| <b>HOUSING AND GASKET MATERIAL</b>      | EU 1935/2004 COMPLIANT                                                     |
| <b>GASKET MATERIAL</b>                  | SILICONE FDA                                                               |
| <b>EXTERNAL SURFACE BOWL</b>            | MIRROR POLISHED                                                            |
| <b>INTERNAL SURFACE BOWL</b>            | FINE BRUSHED                                                               |
| <b>EXTERNAL SURFACE</b>                 | MECHANICAL POLISHED                                                        |
| <b>BASEPLATE AND BENDS</b>              |                                                                            |
| <b>INTERNAL SURFACE</b>                 | MECHANICAL POLISHED                                                        |
| <b>BASEPLATE AND BENDS</b>              |                                                                            |
| <b>INTERNAL ROUGHNESS</b>               | Ra<0.8 µm ( Ra<32 µin )                                                    |

**DIMENSIONAL DATA**

|                                           |                |                |
|-------------------------------------------|----------------|----------------|
| <b>CARTRIDGES NUMBER x HEIGHT</b>         | 36 x 30"       | 36 x 40"       |
| <b>TOTAL VESSEL VOLUME [litres]/[gal]</b> | -/-            | -/-            |
| <b>C [mm] / [inch]</b>                    | 1500 / (59.05) | 1750 / (68.89) |
| <b>E [mm] / [inch]</b>                    | -              | -              |

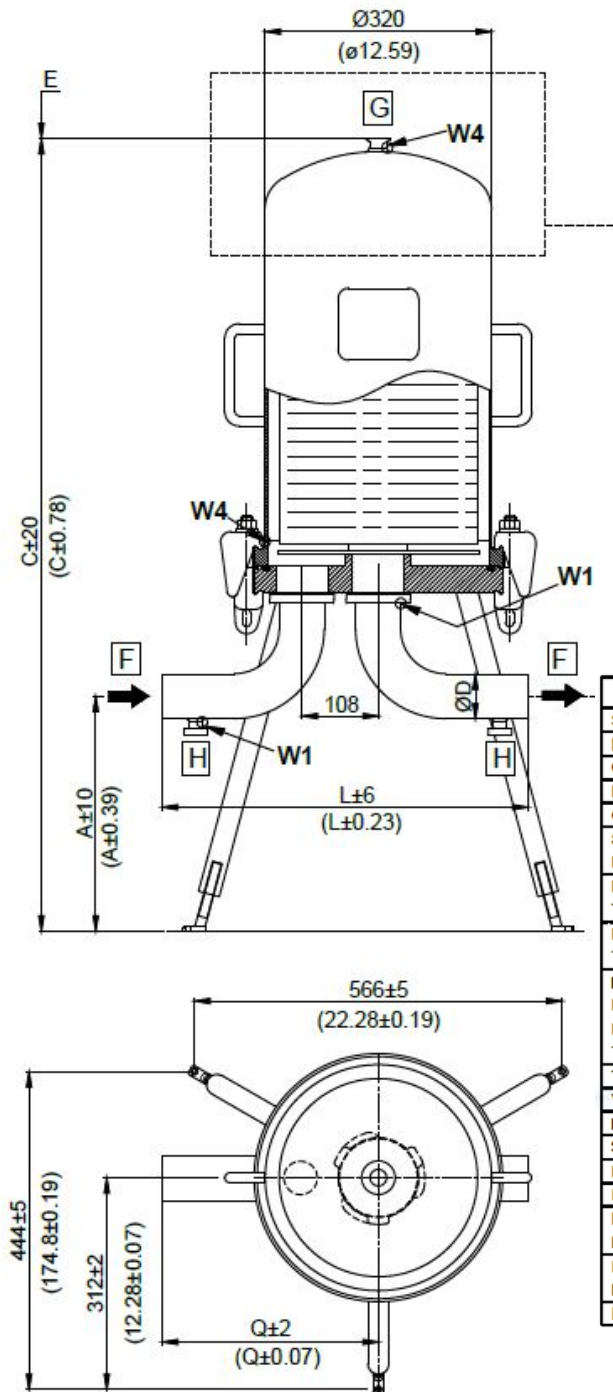
| Spare Parts |                                              |            |
|-------------|----------------------------------------------|------------|
| Pos.        | Description                                  | Part No.   |
| 1           | Housing Bowl                                 | -          |
| 2.1         | O-Ring Ø7.00 ID=532.30 - Silicone [Standard] | 8ZDSC-0012 |
| 2.2         | O-Ring Ø7.00 ID=532.30 - EPDM                | 8ZDEC-0012 |
| 3           | Bolt Clamp M20                               | 8ZSL--0015 |
| 4           | Cartridge Plate                              | -          |
| 5           | Leg                                          | -          |
| 6           | Foot                                         | -          |
| 7           | Bend Flange                                  | -          |
| 8           | Gasket Clamp 3" - PTFE                       | 8ZDPC-0008 |
| 9           | Inlet Bend                                   | -          |
| 10          | Outlet Bend                                  | -          |
| 11          | Protection Plate                             | -          |
| 12          | Hexagonal Nut                                | -          |
| 13          | Tie Rod 30"                                  | -          |
|             | Tie Rod 40"                                  | -          |
| 14          | Tie Rod Screw                                | -          |
| 15          | Blind Clamp                                  | -          |
| 16          | Adapter (Only For Code 28)                   | -          |



# Type 813 - Jumbo

(13 bar Version)





**AVT® FILTER HOUSING**

|                                        |                            |
|----------------------------------------|----------------------------|
| PART NUMBER                            | "MODEL"                    |
| MODEL                                  | "TYPE"                     |
| TYPE                                   | 01x "HEIGHT"               |
| CARTRIDGE NO. x HIGH (inch)            | III                        |
| CATEGORY 2014/68/EU                    | "VOLUME"                   |
| VOLUME LITRES (V)                      | PS -1/+13 bar TS -20/+40°C |
| PS/TS                                  | PS -1/+4 bar TS -20/+150°C |
| TEST PRESSURE(PT) bar                  | 18.6                       |
| PED FLUID GROUP (Art. 13 - 2014/68/EU) | 2 - NOT DANG.              |
| LIMITED TO CLEAN IN PLACE (CIP)        |                            |
| PS/TS                                  | PS 0/+3 bar TS +10/+80°C   |
| PED FLUID GROUP (Art. 13 - 2014/68/EU) | GR.1 - LIQ                 |
| PHISICAL STATE                         | LIQUID / GAS               |
| VESSEL MATERIAL                        | 316L / 1.4404              |
| YEAR OF MANUFACTURE                    |                            |
| VESSEL NUMBER                          |                            |

**CE 0948**  

| TECHNICAL DATA                   |                                |
|----------------------------------|--------------------------------|
| SERIES                           | JUMBO - SANITARY               |
| NO. CARTRIDGES                   | 01                             |
| CARTRIDGE SOCKET                 | CODF40                         |
| DESIGN CODE                      | EN 13445                       |
| CERTIFICATION                    | 2014/68/EU                     |
| SERVICE CONDITIONS               | Gr.2 - LIQ,GAS (NOT DANGEROUS) |
| PED FLUID GROUP                  |                                |
| PRESSURE (PS) min-max bar (psi)  | -1 +13 bar ( -14.5 + 145 psi ) |
| TEMPERATURE (TS) min-max °C (°F) | 20 +40°C ( - 4 +104 °F )       |
| PRESSURE (PS) min-max bar (psi)  | -1 +4 bar ( -14.5 +118 psi )   |
| TEMPERATURE (TS) min-max °C (°F) | -20 +150°C ( - 4° +302°F )     |
| LIMITED TO CLEAN IN PLACE (CIP)  | Gr.1 - LIQ                     |
| PED FLUID GROUP                  |                                |
| PRESSURE (PS) min-max bar (psi)  | +0 +3 bar ( +0 +43.5 psi )     |
| TEMPERATURE (TS) min-max °C (°F) | +10 +80°C ( +50° +176°F )      |
| TEST PRESSURE (PT)               | 18.6 bar ( 290 psi )           |
| VESSEL MATERIAL                  | 316L / 1.4404                  |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT         |
| SEALS MATERIAL                   | SILICONE FDA APPROVED          |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                   |
| EXTERNAL SURFACE                 |                                |
| BASEPLATE AND BENDS              | MECHANICAL POLISHED            |
| INTERNAL SURFACE                 |                                |
| BASEPLATE AND BENDS              | MECHANICAL POLISHED            |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )        |

## PACKAGING

| SIZE AND WEIGHT                      |                                |                                |                                |                                |
|--------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| CARTRIDGES NUMBER x HEIGHT           | 01 x 10"                       | 01 x 20"                       | 01 x 30"                       | 01 x 40"                       |
| BOWL WEIGHT [kg]/[lb]                | 22.0/(48.50)                   | 28.0/(61.72)                   | 34.0/(74.95)                   | 40.0/(88.18)                   |
| TOTAL NET WEIGHT [kg]/[lb]           | 59.0/(130.07)                  | 66.0/(145.50)                  | 73.0/(160.93)                  | 80.0/(176.36)                  |
| TOTAL WEIGHT PACKED [kg]/[lb]        | 70/(154.30)                    | 77.0/(169.75)                  | 84/(185.18)                    | 91/(200.62)                    |
| PACKAGING SIZE [cm]/[inch] ( LxPxH ) | 102x48x48<br>(40.15x18.9x18.9) | 102x48x48<br>(40.15x18.9x18.9) | 130x48x48<br>(51.11x18.9x18.9) | 160x48x48<br>(92.99x18.9x18.9) |

| Dimensional Data       |      |      |              |
|------------------------|------|------|--------------|
| Cartridge x Height (N) | C mm | E mm | VOLUME V (L) |
| 01 x 10"               | 915  | 200  | 26           |
| 01 x 20"               | 1170 | 540  | 46           |
| 01 x 30"               | 1425 | 790  | 66           |
| 01 x 40"               | 1680 | 1040 | 86           |

| Butt Weld ASME BPE |               |     |     |                      |     |     |                   |     |     |
|--------------------|---------------|-----|-----|----------------------|-----|-----|-------------------|-----|-----|
|                    | Without Drain |     |     | With Drain DIN 11851 |     |     | With Drain ClampS |     |     |
| Dimension [mm]     | A             | L   | Q   | A                    | L   | Q   | A                 | L   | Q   |
| 2.0" (50.8x1.65)   | 362           | 381 | 211 | 362                  | 381 | 211 | 362               | 503 | 278 |
| 2.5" (63.5x1.65)   | 390           | 452 | 240 | 390                  | 452 | 240 | 390               | 532 | 320 |
| 3.0" (76.2x1.65)   | 335           | 508 | 258 | 335                  | 508 | 258 | 335               | 588 | 348 |

| Clamp            |               |     |     |                   |     |     |
|------------------|---------------|-----|-----|-------------------|-----|-----|
|                  | Without Drain |     |     | With Drains Clamp |     |     |
| Dimension [mm]   | A             | L   | Q   | A                 | L   | Q   |
| 2.0" (50.8x1.65) | 362           | 406 | 224 | 362               | 528 | 291 |
| 2.5" (63.5x1.65) | 390           | 488 | 253 | 390               | 557 | 333 |
| 3.0" (76.2x1.65) | 335           | 533 | 281 | 335               | 613 | 361 |

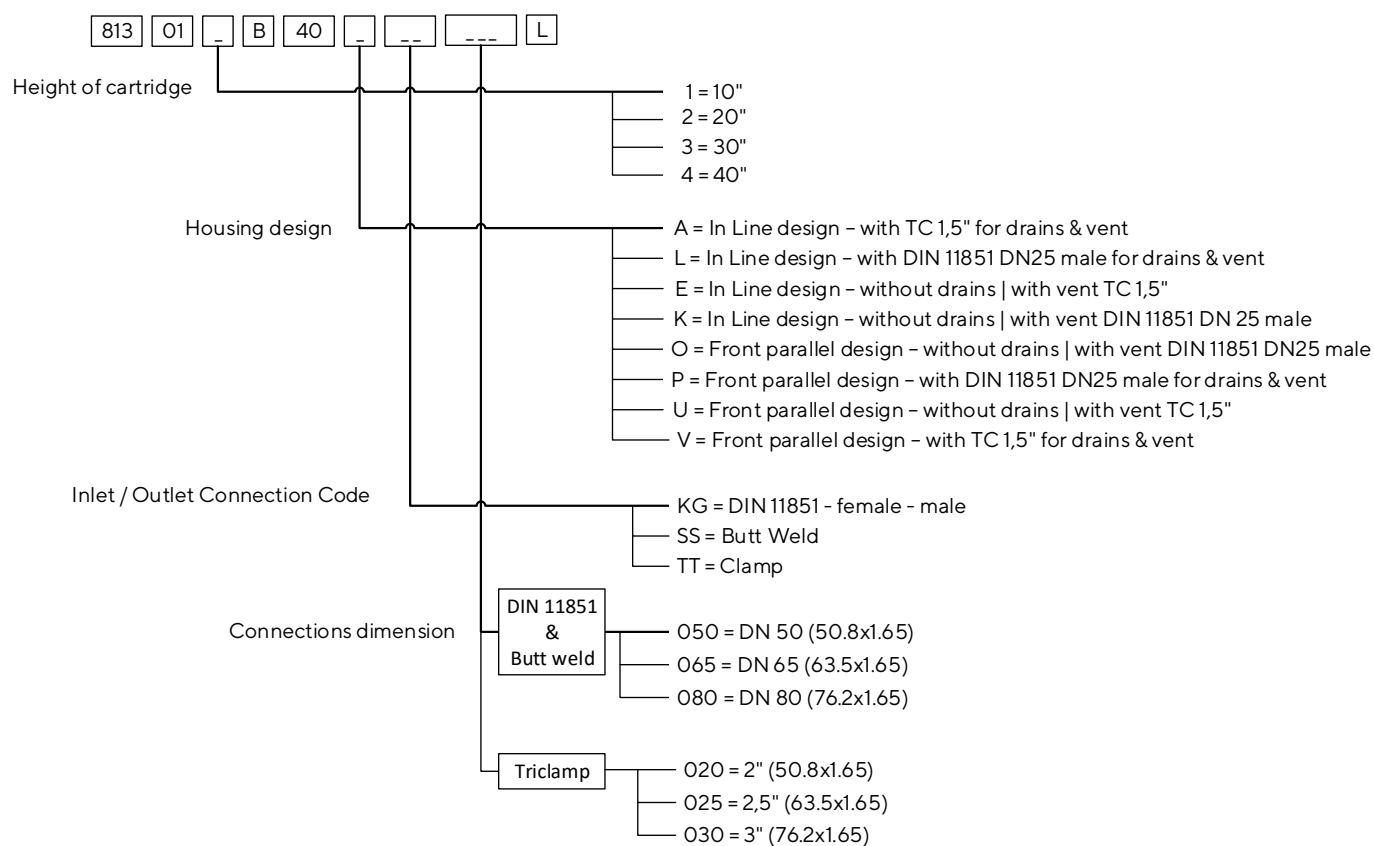
| DIN 11851 Liner—Male Part |               |     |     |                       |     |     |
|---------------------------|---------------|-----|-----|-----------------------|-----|-----|
|                           | Without Drain |     |     | With Drains DIN 11851 |     |     |
| Dimension [mm]            | A             | L   | Q   | A                     | L   | Q   |
| 2.0" (50.8x1.65)          | 362           | 444 | 239 | 362                   | 444 | 239 |
| 2.5" (63.5x1.65)          | 390           | 524 | 273 | 390                   | 524 | 273 |
| 3.0" (76.2x1.65)          | 335           | 590 | 304 | 335                   | 590 | 304 |

| Packaging Size and Weight |                  |                       |                     |                          |
|---------------------------|------------------|-----------------------|---------------------|--------------------------|
| Cartridge x Height (N)    | Bowl Weight [kg] | Total Net Weight [kg] | Packaging Size [cm] | Total Weight Packed [kg] |
| 01 x 10"                  | 22               | 59                    | 102x48x48           | 34                       |
| 01 x 20"                  | 28               | 66                    | 102x48x48           | 73                       |
| 01 x 30"                  | 34               | 73                    | 130x48x48           | 84                       |
| 01 x 40"                  | 40               | 80                    | 160x48x48           | 130                      |

## Filter Series - Jumbo Housing

Page 3 | 3

## Housing Style - T-Type - Series Jumbo 01 - DSH Ver. 11



| Spare Parts |                          |          |            |      |
|-------------|--------------------------|----------|------------|------|
| Pos.        | Description              | Material | Part No.   | Q.ty |
| 1           | O-Ring 304,10mm x 7,00mm | Silicone | 8ZDSC-0018 | 1    |



## DATA LABEL



## FILTER HOUSING

PART NUMBER

MODEL

"MODEL"

TYPE

"TYPE"

CARTRIDGE NO. x HIGH (inch)

03 x H

CATEGORY 2014/68/EU

IV

VOLUME LITRES (V)

"V"

PRESSURE(PS) min-max at TS=-20+40°C bar

-1 + 13

PRESSURE(PS) min-max at TS=150°C bar

-1 + 4

TEST PRESSURE(PT) bar

18.6

DESIGN TEMPERATURE (TS) min-max

-20 + 150°C

FLUID GROUP (2014/68/EU)

2 - NOT DANG.

PHISICAL STATE

LIQUID / GAS

VESSEL MATERIAL

316L / 1.4404

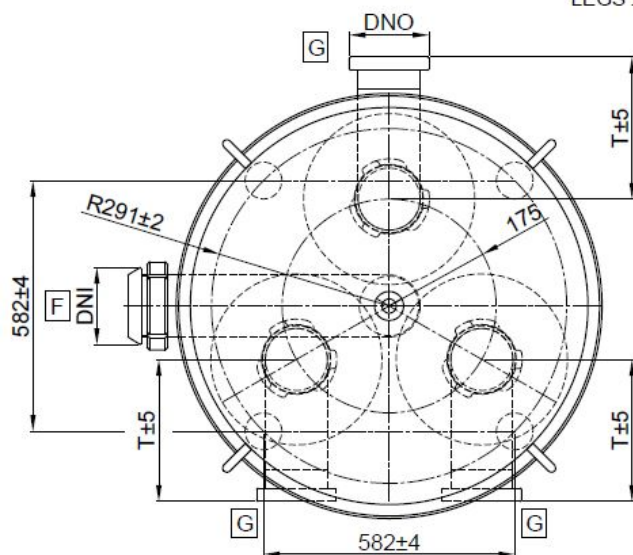
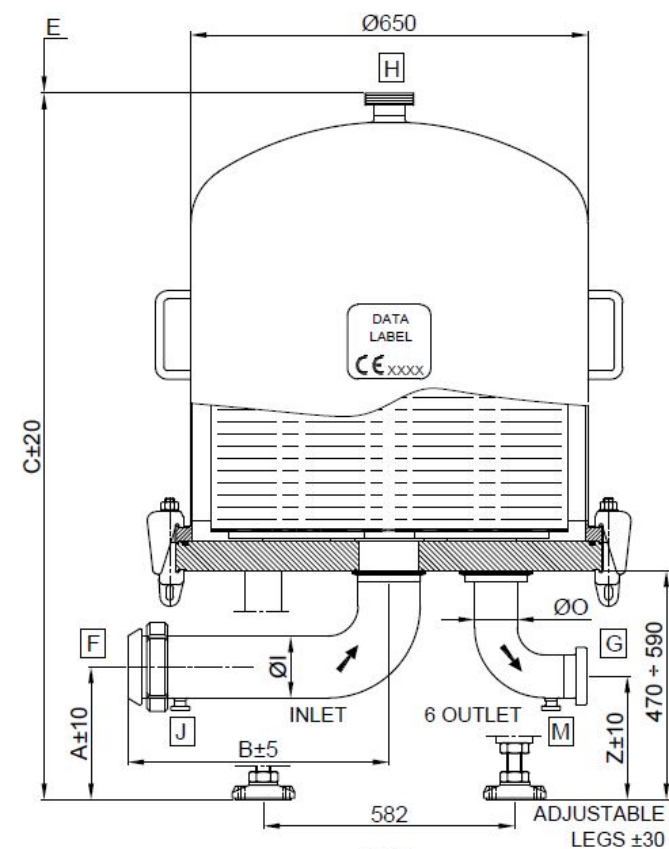
YEAR OF MANUFACTURE

VESSEL NUMBER

CE XXXX

## TECHNICAL DATA

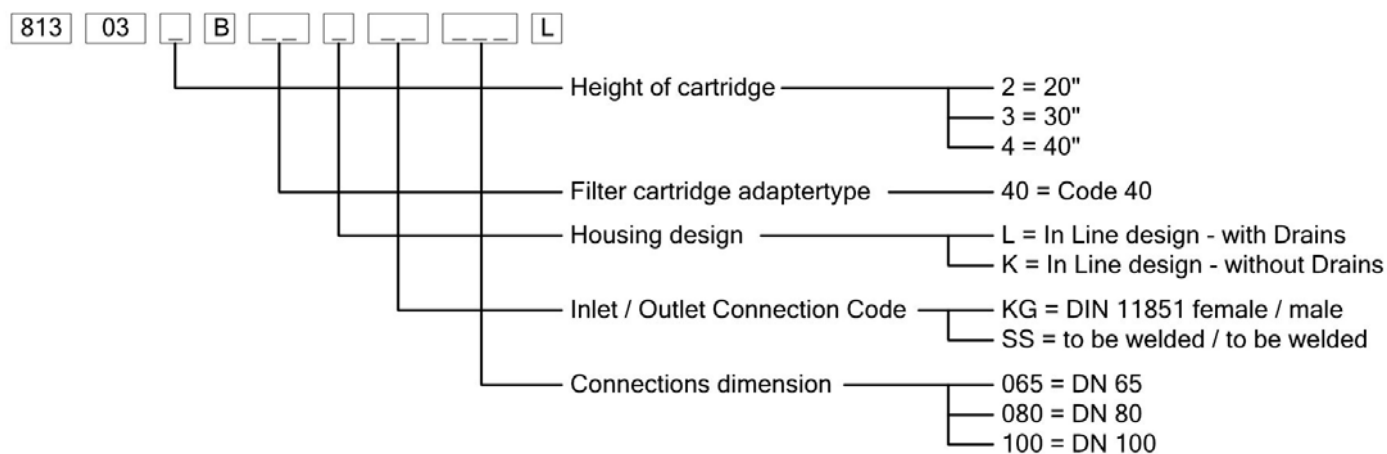
|                             |                           |
|-----------------------------|---------------------------|
| VESSEL RANGE                | JUMBO - SANITARY          |
| NO. CARTRIDGES              | 03                        |
| CARTRIDGE SOCKET            | CODE 40                   |
| DESIGN CODE                 | EN13445                   |
| CERTIFICATION               | 2014/68/EU                |
| PED CATEGORY                | IV (2014/68/EU)           |
| DESIGN PRESSURE -20+40°(PS) | -1 + 13 bar               |
| DESIGN PRESSURE 150°(PS)    | -1 + 4 bar                |
| WORKING PRESSURE -20+40°    | -1 + 13 bar               |
| WORKING PRESSURE 150°       | -1 + 4 bar                |
| DESIGN TEMP. MIN-MAX (TS)   | -20 + 150°C               |
| VESSEL MATERIAL             | 316L / 1.4404             |
| TEST PRESSURE (PT)          | 18.6 bar                  |
| FLUID GROUP                 | 2 (NOT DANGEROUS)         |
| PHISICAL STATE              | LIQUID/GAS                |
| SEALS MATERIAL              | SILICONE FDA BGA APPROVED |
| INTERNAL FINISHING          | MECHANICAL POLISHING      |
| INTERNAL ROUGHNESS          | RA<0.8 MICRON             |
| EXTERNAL FINISHING          | MECHANICAL POLISHING      |
| VENT CONNECTION             | H DIN11851 DN 25 MALE     |
| DRAIN CONNECTION            | J DIN11851 DN 15 MALE     |
| DRAIN CONNECTION            | M DIN11851 DN 15 MALE     |
| INLET CONNECTION            | F DIN11851 LINER          |
| OUTLET CONNECTION           | G DIN11851 MALE           |



| VESSEL MODEL                   | JB31      | JB32      | JB33      | JB34      |
|--------------------------------|-----------|-----------|-----------|-----------|
| VESSEL TYPE                    | 035.031.4 | 035.032.4 | 035.033.4 | 035.034.4 |
| CARTRIDGES HEIGHT (H)          | 10"       | 20"       | 30"       | 40"       |
| C mm                           | 1055      | 1310      | 1565      | 1820      |
| E mm                           | 200       | 550       | 800       | 1050      |
| TOTAL VESSEL VOLUME litres (V) | 108       | 190       | 272       | 354       |
| BOWL WEIGHT kg                 | 56        | 76        | 96        | 116       |
| TOTAL NET WEIGHT kg ~          | 270       | 290       | 310       | 330       |
| PACKAGING SIZE cm78x100x       | 80        | 105       | 130       | 155       |
| TOTAL WEIGHT PACKED kg         | 290       | 310       | 330       | 350       |

## Inlet &amp; Outlet Connections

| Inlet  |       |     |     | Outlet |      |     |     |
|--------|-------|-----|-----|--------|------|-----|-----|
|        | Ø     | A   | B   |        | Ø    | Z   | T   |
| DN 65  | 70    | 400 | 444 | DN 50  | 50.8 | 370 | 137 |
| DN 80  | 85    | 380 | 440 | DN 50  | 50.8 | 370 | 137 |
| DN 100 | 101.6 | 368 | 440 | DN 65  | 63.5 | 352 | 148 |

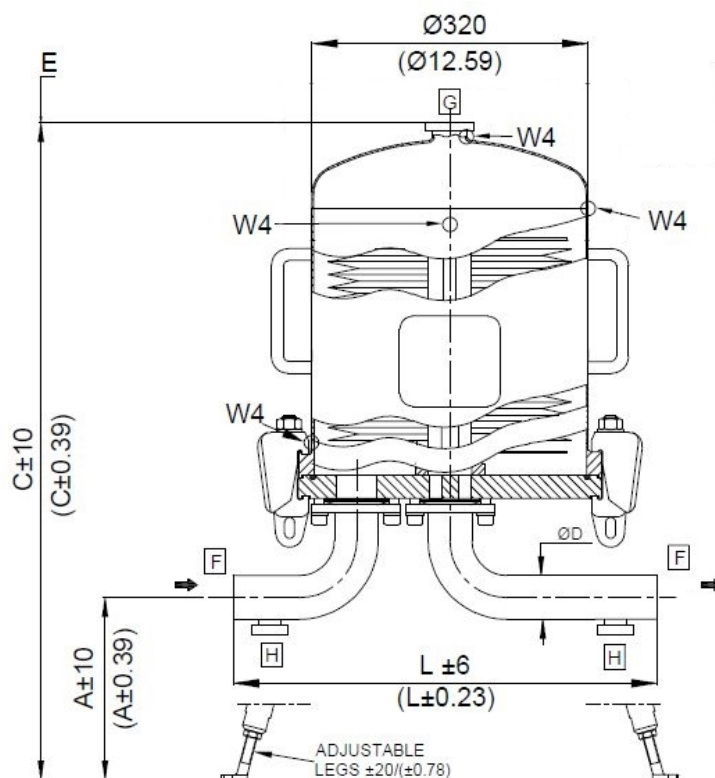
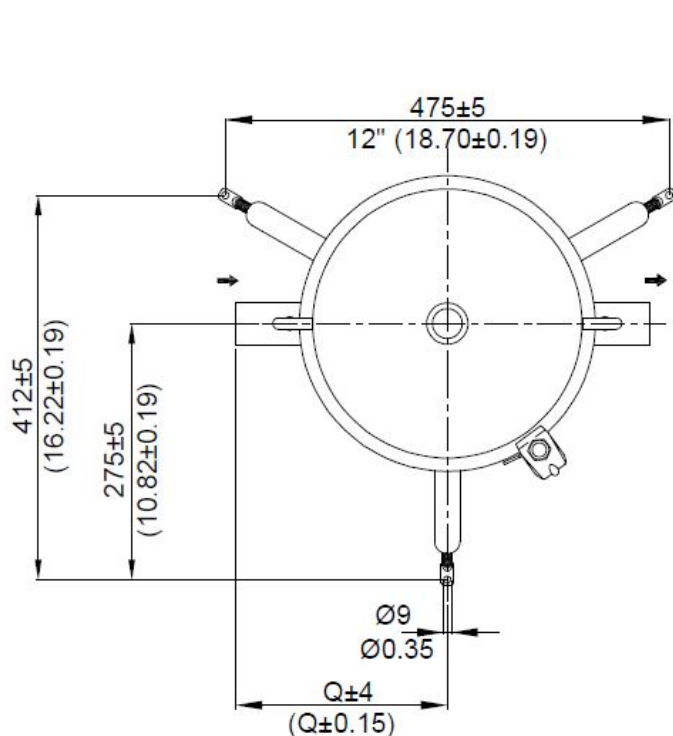
Order Numbers

| Spare Parts |                          |          |            |      |
|-------------|--------------------------|----------|------------|------|
| Pos.        | Description              | Material | Part No.   | Q.ty |
| 1           | O-Ring 634,00mm x 9,00mm | Silicone | 8ZDSC-0019 | 1    |



# Type 292 - SARTOCLEAR





## DATA LABEL EXAMPLE

| AVT <sup>®</sup> FILTER HOUSING         |                |
|-----------------------------------------|----------------|
| PART NUMBER                             |                |
| MODEL                                   |                |
| TYPE                                    |                |
| CARTRIDGE NO. x HIGH (inch)             |                |
| CATEGORY 2014/68/EU                     |                |
| VOLUME LITRES (V)                       |                |
| PRESSURE (PS) min-max at TS= ... °C bar |                |
| PRESSURE (PS) min-max at TS= ... °C bar |                |
| TEST PRESSURE (PT) bar                  |                |
| PFD FLUID GROUP (2014/68/EU)            | GR 2 - LIQ/GAS |
| LIMITED TO CLEAN IN PLACE (CIP)         |                |
| PRESSURE (PS) min-max at TS= ... °C bar |                |
| PFD FLUID GROUP (2014/68/EU)            | GR 1 - LIQ     |
| VESSEL MATERIAL                         |                |
| YEAR OF MANUFACTURE                     |                |
| VESSEL NUMBER                           |                |
| 0948                                    |                |
|                                         |                |

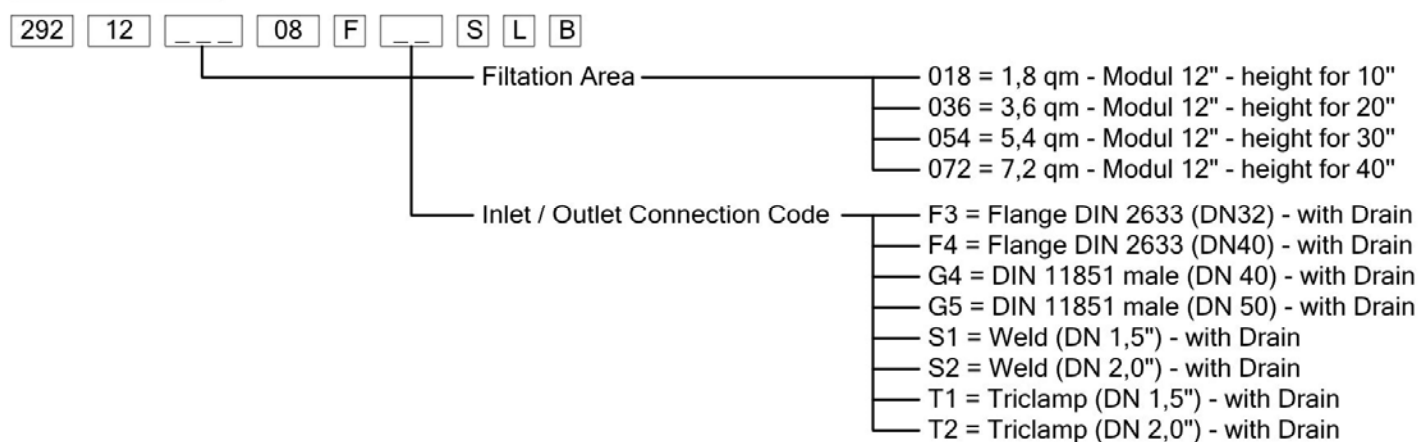
| TECHNICAL DATA                   |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| SERIES                           | ZMP                                                                       |
| DIAMETER MODULES                 | 12"                                                                       |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X<br>II -/2 D Ex h IIC 150°C...85°C -/Db X |
| DESIGN CODE                      | EN 13445                                                                  |
| SERVICE CONDITIONS               |                                                                           |
| PFD FLUID GROUP                  | Gr 2 - LIQ/GAS                                                            |
| PRESSURE (PS) min-max bar (psi)  | -1 ÷ 8 bar ( -14.5 ÷ 116 psi )                                            |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 40°C ( -4 ÷ 104 °F )                                                |
| PRESSURE (PS) min-max bar (psi)  | -1 ÷ 4 bar ( -14.5 ÷ 58 psi )                                             |
| TEMPERATURE (TS) min-max °C (°F) | -20 ÷ 150°C ( -4° ÷ 302°F )                                               |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                                                           |
| PFD FLUID GROUP                  | Gr.1 - LIQ                                                                |
| PRESSURE (PS) min-max bar (psi)  | +0 ÷ 3 bar ( +0 ÷ 43.5 psi )                                              |
| TEMPERATURE (TS) min-max °C (°F) | +10 ÷ 80°C ( +50° ÷ 176°F )                                               |
| TEST PRESSURE (PT)               | 11.5 bar ( 166.8 psi )                                                    |
| VESSEL MATERIAL                  | 316L / 1.4404                                                             |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT                                                    |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                                                           |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                                                              |
| EXTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL SURFACE                 | MECHANICAL POLISHED                                                       |
| BASEPLATE AND BENDS              |                                                                           |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin)                                                    |

| DIMENSIONAL DATA                   |                |                 |                 |                 |
|------------------------------------|----------------|-----------------|-----------------|-----------------|
| CARTRIDGES NUMBER x HEIGHT         | 12" x 1        | 12" x 2         | 12" x 3         | 12" x 4         |
| TOTAL VESSEL VOLUME [litres]/[gal] | 32/(8.45)      | 53/(14.00)      | 74/(29.13)      | 96/(37.79)      |
| C [mm] / [inch]                    | 970<br>(38.18) | 1240<br>(48.81) | 1520<br>(59.84) | 1820<br>(71.65) |
| E [mm] / [inch]                    | 460<br>(18.11) | 730<br>(28.74)  | 1010<br>(39.76) | 1310<br>(51.57) |

| Inlet - Outlet Connections |      |     |     |     |      |
|----------------------------|------|-----|-----|-----|------|
|                            | DN   | A   | L   | Q   | ØD   |
| S1 = Weld                  | 1.5" | 373 | 480 | 260 | 38.1 |
| S2 = Weld                  | 2.0" | 345 | 505 | 280 | 50.8 |

| Vent & Drain Dimension |      |      |      |
|------------------------|------|------|------|
|                        | DN   | ØTC  | ØD   |
| Triclamp               | 1.5" | 50.5 | 38.1 |

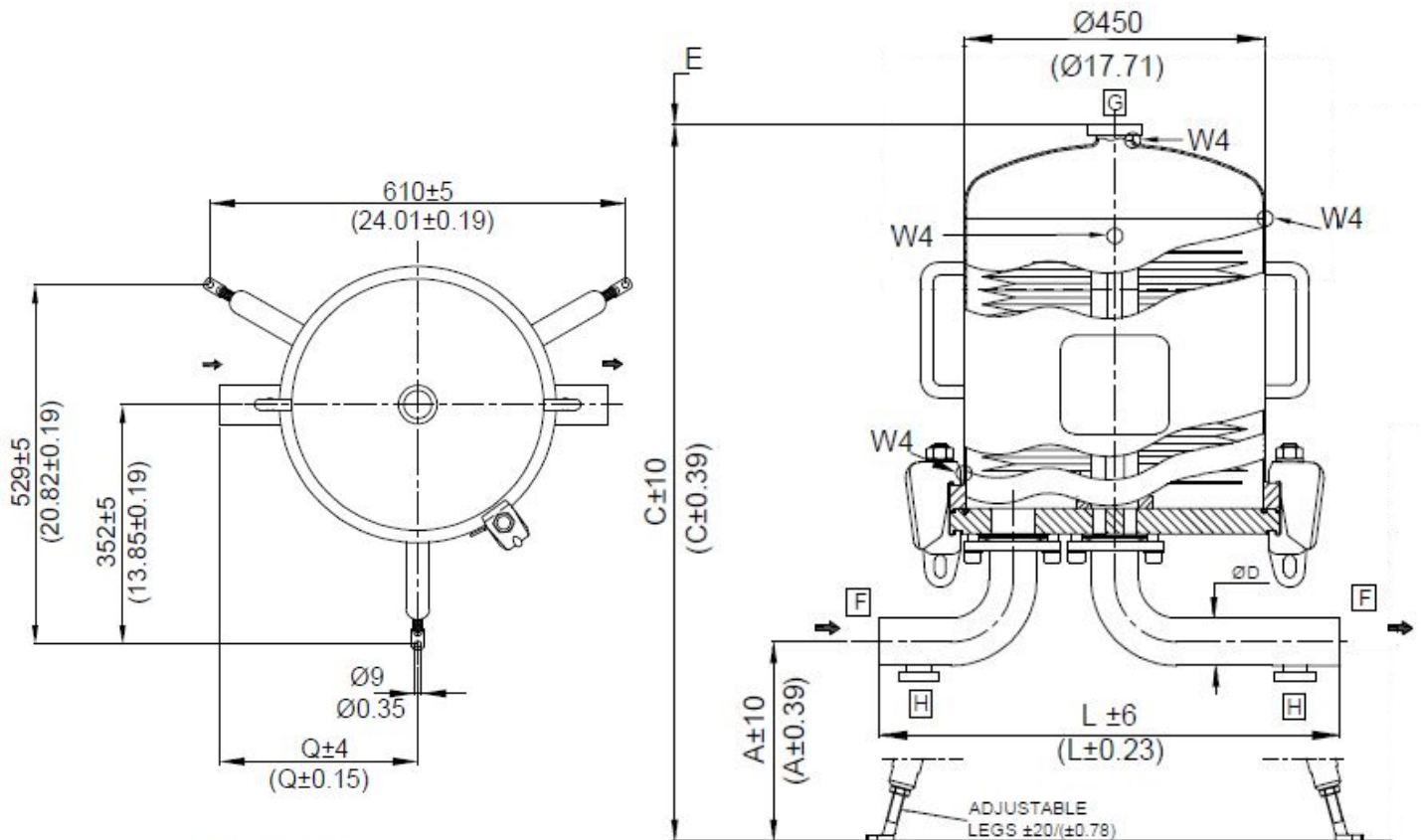
| Inlet - Outlet Connections |      |     |     |     |      |
|----------------------------|------|-----|-----|-----|------|
|                            | DN   | A   | L   | Q   | ØD   |
| G4 = DIN 11851 male        | 40   | 373 | 546 | 293 | 38.1 |
| G5 = DIN 11851 male        | 50   | 345 | 575 | 315 | 50.8 |
| T1= Triclamp               | 1.5" | 400 | 516 | 283 | 38.1 |
| T2= Triclamp               | 2.0" | 370 | 539 | 303 | 50.8 |
| F3= Flange EN1092-1        | 32   | 363 | 561 | 311 | 42.4 |
| F4= Flange EN1092-1        | 40   | 384 | 580 | 320 | 48.3 |

**Order Numbers****SIZE AND WEIGHT**

| MODULES DIAMETER x NUMBER (N)        | 12"x 1                          | 12"x 2                           | 12"x 3                           | 12x 4"                           |
|--------------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| BOWL WEIGHT [kg]/[lb]                | 11.0/(24.25)                    | 16.0/(35.27)                     | 20.0/(44.09)                     | 25.0/(55.11)                     |
| TOTAL NET WEIGHT [kg]/[lb]           | 44.0/(97.00)                    | 50.0/(110.23)                    | 58.0/(127.86)                    | 63.0/(138.89)                    |
| TOTAL WEIGHT PACKED [kg]/[lb]        | 49.0/(108.02)                   | 56.0/(123.45)                    | 65.0/(143.30)                    | 70.0/(154.32)                    |
| PACKAGING SIZE [cm]/[inch] ( LxPxH ) | 90x50x51<br>(35.43x19.68x20.07) | 115x50x51<br>(45.27x19.68x20.07) | 140x50x51<br>(55.11x19.68x20.07) | 165x50x51<br>(64.96x19.68x20.07) |

**PED CATEGORY ( ACCORANCE TO PED 2014/EU )**

| CARTRIDGES NUMBER x HEIGHT | 12" x 1" | 12" x 2 | 12" x 3 | 12" x 4 |
|----------------------------|----------|---------|---------|---------|
| PED CATEGORY               | II       | II      | II      | II      |



## DATA LABEL EXAMPLE

|                                       |                |
|---------------------------------------|----------------|
| <b>AVT® FILTER HOUSING</b>            |                |
| PART NUMBER                           |                |
| MODEL                                 |                |
| TYPE                                  |                |
| CARTRIDGE NO. x HIGH (inch)           |                |
| CATEGORY 2014/68/EU                   |                |
| VOLUME LITRES (V)                     |                |
| PRESSURE(PS) min-max at TS= ...°C bar |                |
| PRESSURE(PS) min-max at TS= ...°C bar |                |
| TEST PRESSURE(PT) bar                 |                |
| PED FLUID GROUP (2014/68/EU)          | GR.2 - LIQ/GAS |
| LIMITED TO CLEAN IN PLACE (CIP)       |                |
| PRESSURE(PS) min-max at TS= ...°C bar |                |
| PED FLUID GROUP (2014/68/EU)          | GR.1 - LIQ     |
| VESSEL MATERIAL                       |                |
| YEAR OF MANUFACTURE                   |                |
| VESSEL NUMBER                         |                |
| CE 0948                               |                |
| CE Ex                                 |                |

## TECHNICAL DATA

|                                  |                                  |
|----------------------------------|----------------------------------|
| SERIES                           | ZMP                              |
| DIAMETER MODULES                 | 16"                              |
| ATEX REGULATION                  | II -/2 G Ex h IIC T3...T6 -/Gb X |
| DESIGN CODE                      | EN 13445                         |
| SERVICE CONDITIONS               |                                  |
| PED FLUID GROUP                  | Gr.2 - LIQ,GAS                   |
| PRESSURE (PS) min-max bar (psi)  | -1 +8 bar ( -14.5 + 116 psi )    |
| TEMPERATURE (TS) min-max °C (°F) | -20 +40°C ( -4 +104 °F )         |
| PRESSURE (PS) min-max bar (psi)  | -1 +4 bar ( -14.5 +58 psi )      |
| TEMPERATURE (TS) min-max °C (°F) | -20 +150°C ( -4° +302°F )        |
| LIMITED TO CLEAN IN PLACE (CIP)  |                                  |
| PED FLUID GROUP                  | Gr.1 - LIQ                       |
| PRESSURE (PS) min-max bar (psi)  | +0 +3 bar ( +0 +43.5 psi )       |
| TEMPERATURE (TS) min-max °C (°F) | +10 +80°C ( +50° +176°F )        |
| TEST PRESSURE (PT)               | 11.5 bar ( 166.8 psi )           |
| VESSEL MATERIAL                  | 316L / 1.4404                    |
| HOUSING AND GASKET MATERIAL      | EU 1935/2004 COMPLIANT           |
| EXTERNAL SURFACE BOWL            | MIRROR POLISHED                  |
| INTERNAL SURFACE BOWL            | FINE BRUSHED                     |
| EXTERNAL SURFACE                 | MECHANICAL POLISHED              |
| BASEPLATE AND BENDS              |                                  |
| INTERNAL SURFACE                 | MECHANICAL POLISHED              |
| BASEPLATE AND BENDS              |                                  |
| INTERNAL ROUGHNESS               | Ra<0.8 µm ( Ra<32 µin )          |

## DIMENSIONAL DATA

| CARTRIDGES NUMBER x HEIGHT         | 16" x 1        | 16" x 2         | 16" x 3         | 16" x 4         |
|------------------------------------|----------------|-----------------|-----------------|-----------------|
| TOTAL VESSEL VOLUME [litres]/[gal] | 63/(16.6)      | 105/(27.7)      | 147/(38.8)      | 191/(50.4)      |
| C [mm] / [inch]                    | 970<br>(38.18) | 1240<br>(48.81) | 1540<br>(60.62) | 1840<br>(72.44) |
| E [mm] / [inch]                    | 460<br>(18.11) | 730<br>(28.74)  | 1030<br>(40.55) | 1330<br>(52.36) |



By Using 16" Double Layer Modules Please Pay Attention To The Detailed Information You Can Find On The Following Page!



| Inlet - Outlet Connections |      |     |     |     |      |
|----------------------------|------|-----|-----|-----|------|
|                            | DN   | A   | L   | Q   | ØD   |
| S1 = Weld                  | 1.5" | 373 | 585 | 300 | 38.1 |
| S2 = Weld                  | 2.0" | 345 | 605 | 320 | 50.8 |

| Vent & Drain Dimension |      |      |      |
|------------------------|------|------|------|
|                        | DN   | ØTC  | ØD   |
| Triclamp               | 1.5" | 50.5 | 38.1 |



| Inlet - Outlet Connections |      |     |     |     |      |
|----------------------------|------|-----|-----|-----|------|
|                            | DN   | A   | L   | Q   | ØD   |
| G4 = DIN 11851 male        | 40   | 373 | 651 | 333 | 38.1 |
| G5 = DIN 11851 male        | 50   | 345 | 675 | 355 | 50.8 |
| T1= Triclamp               | 1.5" | 373 | 611 | 313 | 38.1 |
| T2= Triclamp               | 2.0" | 345 | 631 | 333 | 50.8 |
| F3= Flange EN1092-1        | 32   | 363 | 671 | 351 | 42.4 |
| F4= Flange EN1092-1        | 40   | 384 | 690 | 360 | 48.3 |

By Using The Sartorius 16" Sartoclear Double Layer Modules You Have To Order Another Special Centering Rod Additionally Due To The Lower Height Of The Modules. The Original Centering Rods Which Are Part Of The Standard Housings Cannot Be Used As They Are Too Long! In Case Of Using The 16" Double Layer Modules Please Contact Us Before Ordering The Housings.

### Order Numbers

292 16 08 F S L B

Filtration Area

- 036 = 3,6 qm - Modul 16" - height for 10"
- 072 = 7,2 qm - Modul 16" - height for 20"
- 108 = 10,8 qm - Modul 16" - height for 30"
- 144 = 14,4 qm - Modul 16" - height for 40"

Inlet / Outlet Connection Code

- F3 = Flange DIN 2633 (DN32) - with Drain
- F4 = Flange DIN 2633 (DN40) - with Drain
- G4 = DIN 11851 male (DN 40) - with Drain
- G5 = DIN 11851 male (DN 50) - with Drain
- S1 = Weld (DN 1,5") - with Drain
- S2 = Weld (DN 2,0") - with Drain
- T1 = Triclamp (DN 1,5") - with Drain
- T2 = Triclamp (DN 2,0") - with Drain

### SIZE AND WEIGHT

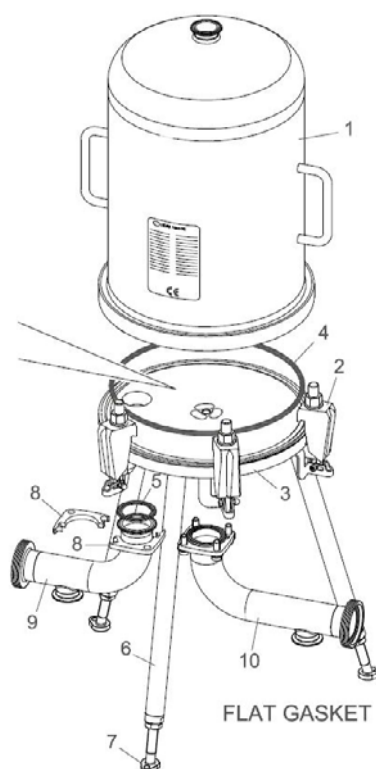
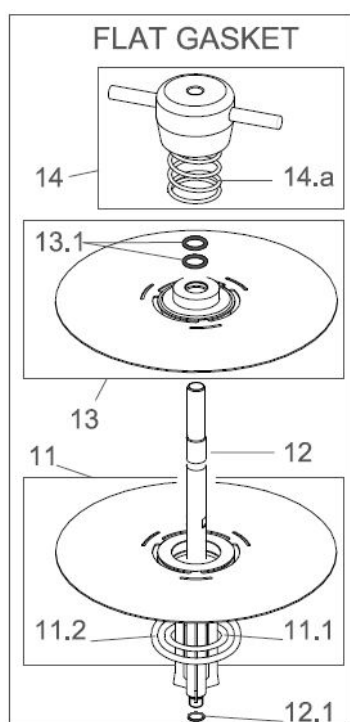
| MODULES DIAMETER x NUMBER (N)        | 16"x 1                           | 16"x 2                           | 16"x 3                           | 16"x 4                           |
|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| BOWL WEIGHT [kg]/[lb]                | 21.0/(46.29)                     | 30.0/(66.13)                     | 40.0/(88.18)                     | 50.0/(110.23)                    |
| TOTAL NET WEIGHT [kg]/[lb]           | 75.0/(165.34)                    | 86.0/(189.59)                    | 99.0/(218.25)                    | 111.0/(244.71)                   |
| TOTAL WEIGHT PACKED [kg]/[lb]        | 81.0/(178.57)                    | 93.0/(205.02)                    | 107.0/(235.89)                   | 119.0/(262.35)                   |
| PACKAGING SIZE [cm]/[inch] ( LxPxH ) | 100x63x64<br>(39.37x24.80x25.19) | 125x63x64<br>(49.21x24.80x25.19) | 150x63x64<br>(59.05x24.80x25.19) | 175x63x64<br>(68.89x24.80x25.19) |

### PED CATEGORY ( ACCORANCE TO PED 2014/EU )

| CARTRIDGES NUMBER x HEIGHT | 16" x 1" | 16" x 2 | 16" x 3 | 16" x 4 |
|----------------------------|----------|---------|---------|---------|
| PED CATEGORY               | II       | II      | III     | III     |

### Series ZMP—Spare parts

| Position | Description                             | Part.No. 12" | Part.No. 16" | Q.ty |
|----------|-----------------------------------------|--------------|--------------|------|
| 1        | 1.1 Housing Bowl 1 Module               | -            | -            | 1    |
|          | 1.2 Housing Bowl 2 Module               | -            | -            | 1    |
|          | 1.3 Housing Bowl 3 Module               | -            | -            | 1    |
|          | 1.4 Housing Bowl 4 Module               | -            | -            | 1    |
| 2        | 2.1 Segmented clamp screw M16           | 8ZSL--0009   | -            | 6    |
|          | 2.2 Segmented clamp screw M16           | -            | 8ZSL--0009   | 9    |
| 3        | Cartridges Plate                        | -            | -            | 1    |
| 4        | 4.1 O-Ring d=7.00 ID=304.10 - Silicone* | 8ZDSC-0018   | -            | 1    |
|          | 4.2 O-Ring d=7.00 ID=443.40 - Silicone* | -            | 8ZDSC-0010   | 1    |
| 5        | Gasket Clamp 2" - PTFE                  | 8ZDPC-0005   | 8ZDPC-0005   | 2    |
| 6        | Leg                                     | -            | -            | 3    |
| 7        | Foot                                    | -            | -            | 3    |
| 8        | Bend Flange                             | -            | -            | 4    |
| 9        | Inlet Bend                              | -            | -            | 1    |
| 10       | Outlet Bend                             | -            | -            | 1    |
| 11       | 11 Lower Protection Plate               | 8ZFL--0010   | 8ZFL--0011   | 1    |
|          | 11.1 O-Ring d5.34 - ID=53,34            | 8ZDP--0037   | 8ZDP--0037   | 1    |
|          | 11.2 O-Ring d5.34 - ID=69,22            | 8ZDP--0038   | 8ZDP--0038   | 1    |
| 12       | 12.1 O-Ring d=1.78 ID=14.00 - PTFE      | -            | -            | 1    |
|          | 12a Center Post 1 Module                | 8ZFL--0002   | 8ZFL--0002   | 1    |
|          | 12b Center Post 2 Modules               | 8ZFL--0003   | 8ZFL--0003   | 1    |
|          | 12c Center Post 3 Modules               | 8ZFL--0004   | 8ZFL--0004   | 1    |
|          | 112d Center Post 4 Modules              | -            | -            | 1    |
| 13       | 13.1 Upper Plate with O-Ring            | -            | -            | 1    |
|          | 13.2 O-Ring Ø 3.53 ID=18.64 - FEP       | -            | -            | 2    |

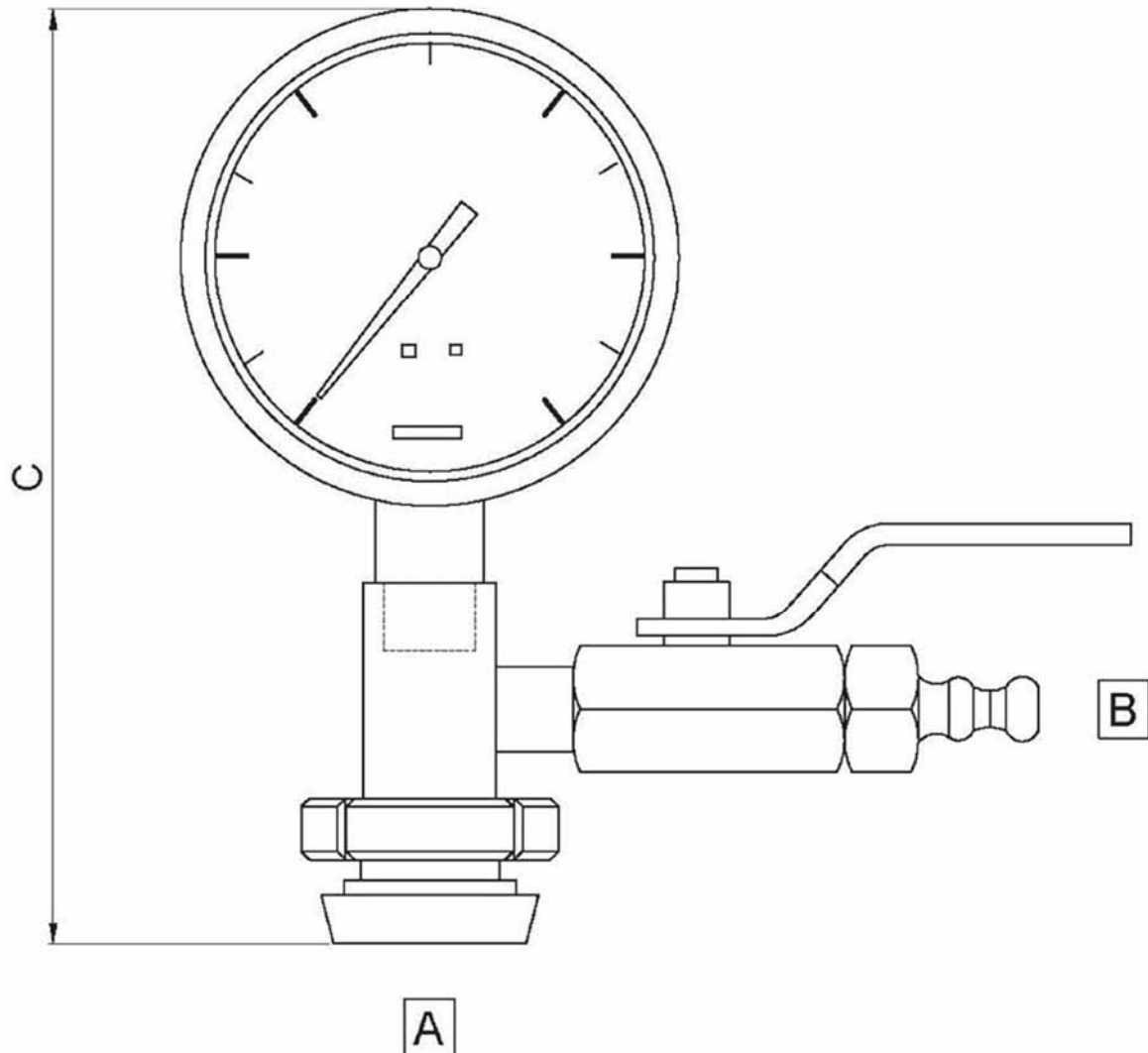


# ACCESSORIES





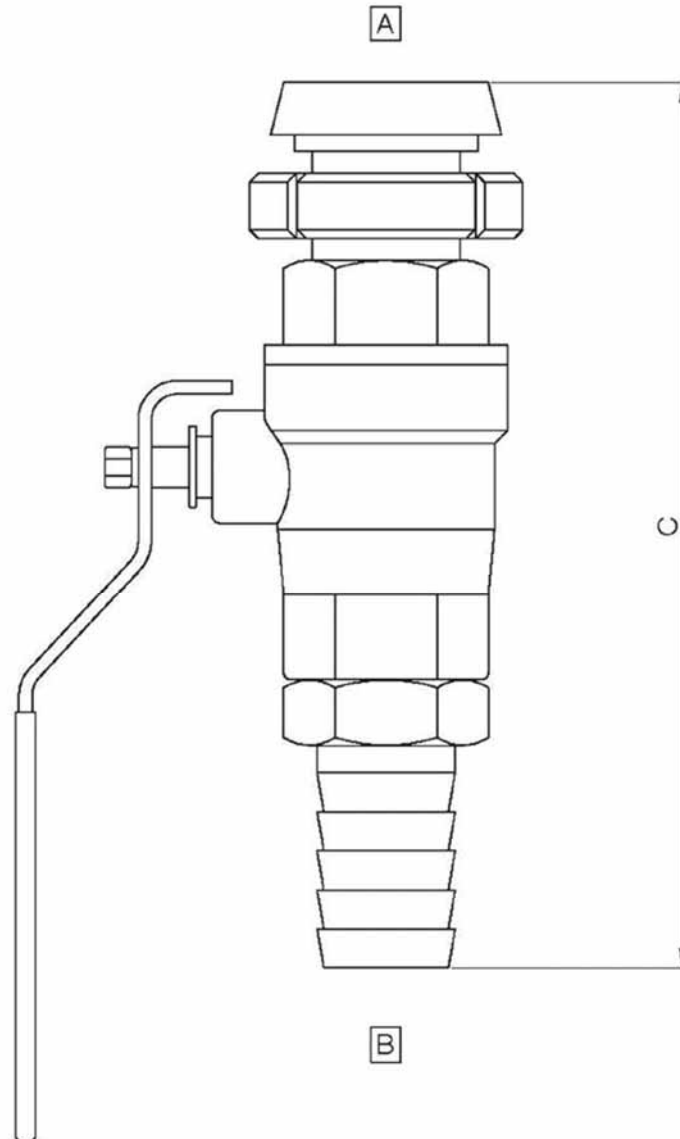
## Vent DIN 25 &amp; Ball Valve 3/8"



| TECHNICAL DATA  |                               |
|-----------------|-------------------------------|
| MATERIAL        | AISI 316L                     |
| GASKET MATERIAL | PETP                          |
| FLUID GROUP     | DANGEROUS AND NOT DANGEROUS   |
| PRESSURE GAUGE  | ø100, GLICERINE BATH 0-16 bar |
| A               | DIN 025 TAPER PART            |
| B               | QUICK COUPLING - RECTUS 3/8"  |
| C               | 190                           |

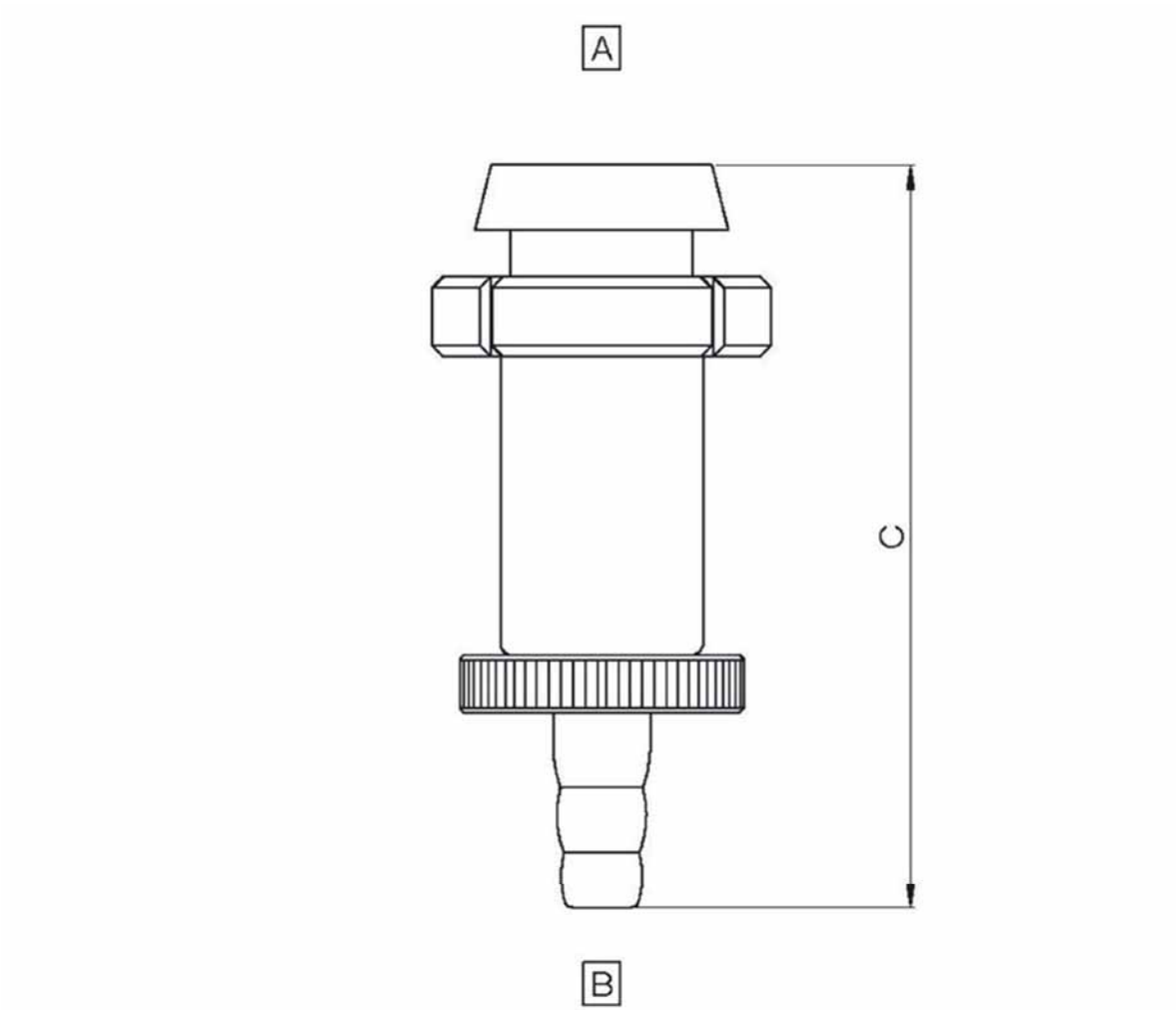
## Part Numbers

8ZML--0001



| TECHNICAL DATA |                             |
|----------------|-----------------------------|
| MATERIAL       | AISI 316L                   |
| A              | DIN 11851 DN 015 TAPER PART |
| B              | ø21                         |
| C              | 125                         |

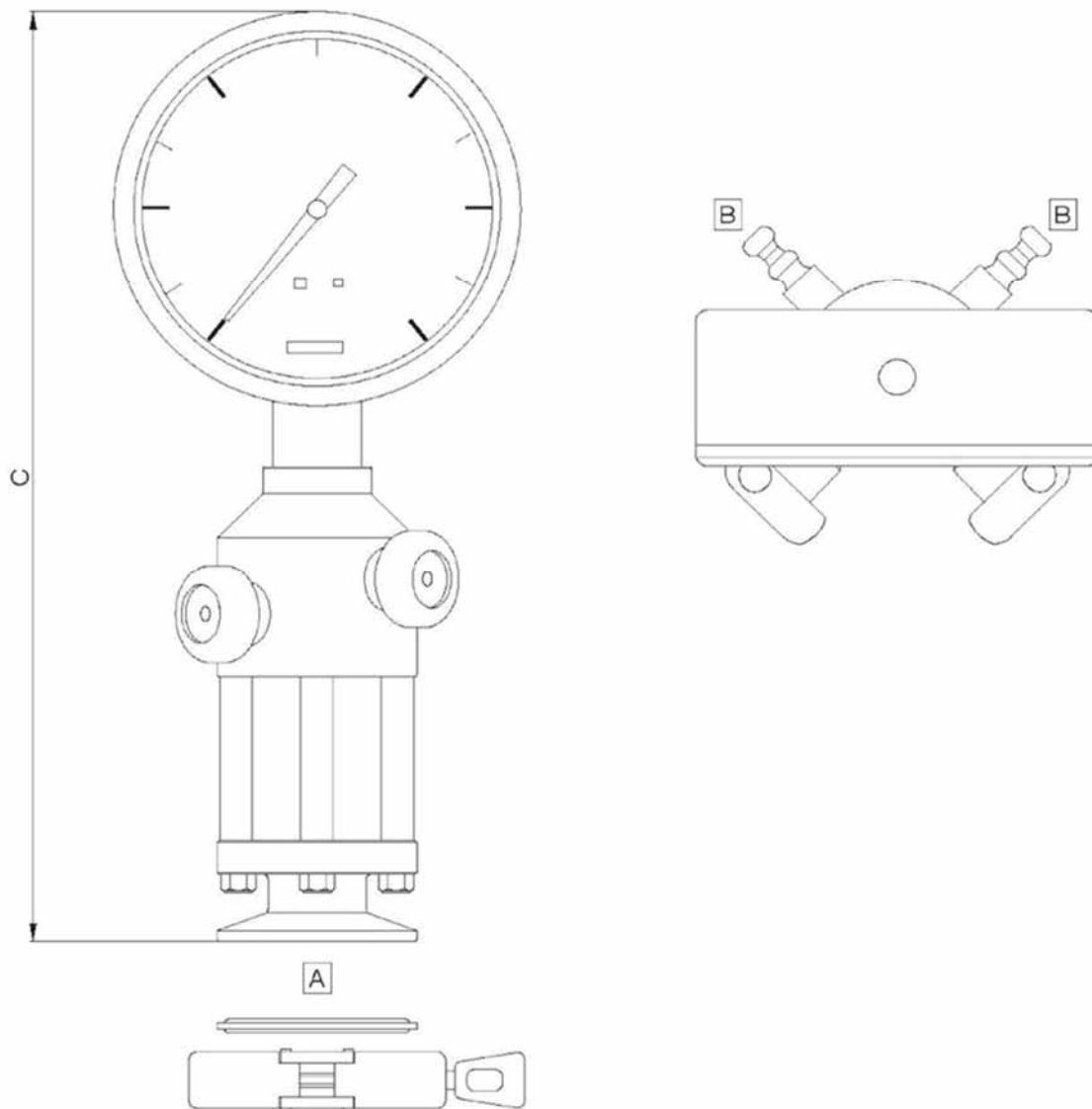
| Part Numbers |
|--------------|
| 8ZVL--0001   |



| TECHNICAL DATA  |                             |
|-----------------|-----------------------------|
| MATERIAL        | AISI 316L                   |
| GASKET MATERIAL | SILICON                     |
| A               | DIN 11851 DN 015 TAPER PART |
| B               | ø12                         |
| C               | 85                          |

| Part Numbers |
|--------------|
| 8ZVL--0006   |

## Vent &amp; Sight Glass &amp; Sanitary Valve



| TECHNICAL DATA  |                      |
|-----------------|----------------------|
| MATERIAL        | AISI 316L            |
| GASKET MATERIAL | SILICONE             |
| FLUID GROUP     | NOT DANGEROUS        |
| PRESSURE GAUGE  | ø100, GLICERINE BATH |
| A               | 1.5" CLAMP           |
| B               | HOSE ADAPTER ø9      |
| C               | 250                  |

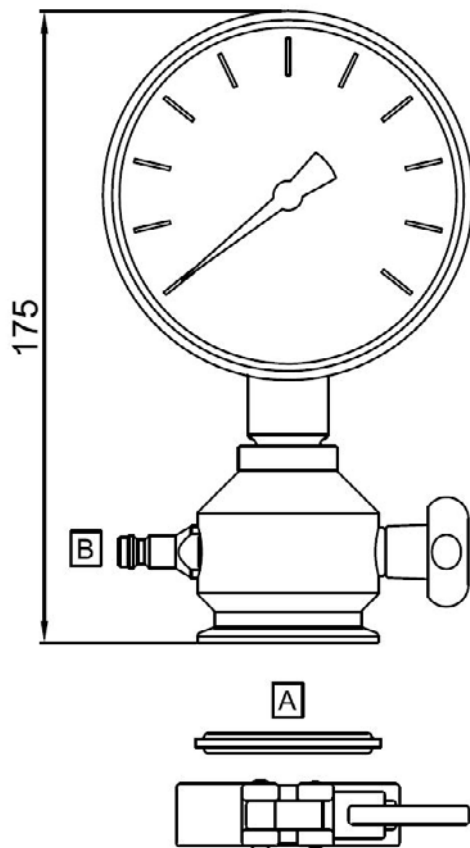
(\*)

(\*) The Coupling System to Attach is: RECTUS Serie 21.

| Description    | Part Numbers |
|----------------|--------------|
| 0 - 6 bar      | 8ZML--0005   |
| 0 - 10 bar     | 8ZML--0006   |
| Spareparts Set | 8ZD-C-0017   |

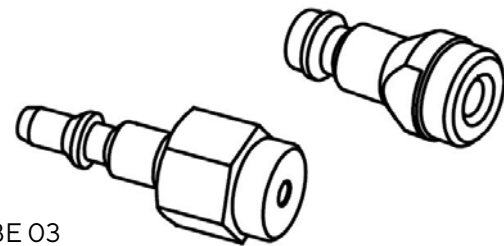
| Partslist: Spareparts Set      | Q.TY |
|--------------------------------|------|
| O-Ring Ø 1.78 x Ø 3.69 - Viton | 4    |
| O-Ring Ø 1.78 x Ø 7.66 - Viton | 4    |
| Glass                          | 2    |
| Glass Gasket - Silicone        | 4    |

## Vent &amp; Sanitary Valve



Hose Adapter 9

(The coupling system to attach is: RECTUS series 21)



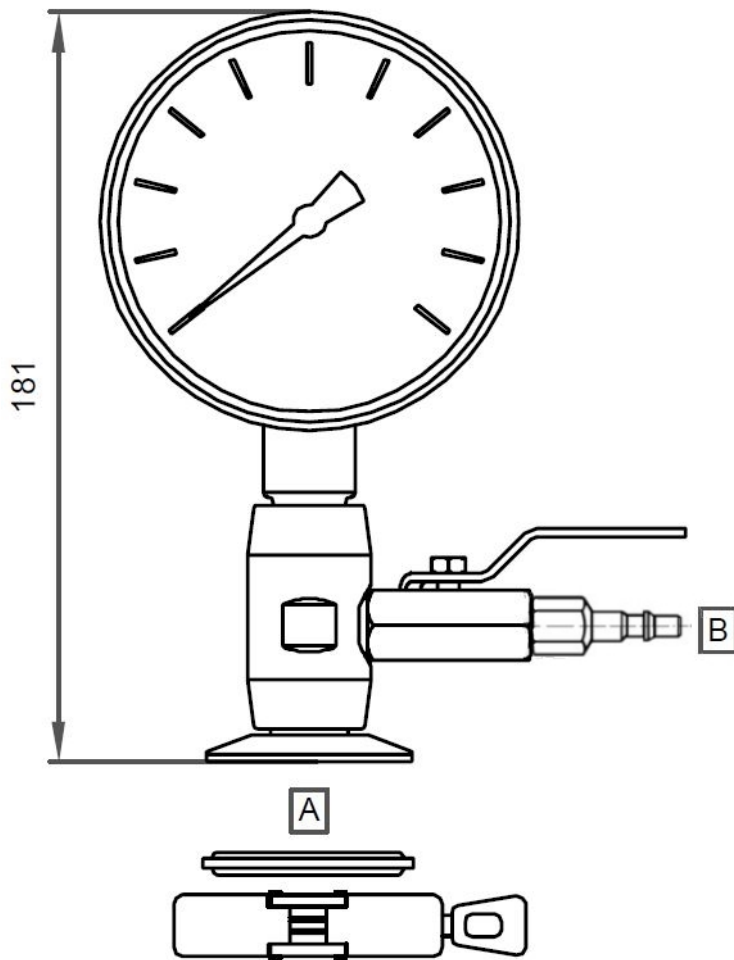
Staeubli RBE 03

| Technical Data  |                                    |
|-----------------|------------------------------------|
| Material        | AISI 316L                          |
| Gasket Material | FKM (Fluoroelastomere)             |
| Fluid Group     | Not Dangerous                      |
| Pressure Gauge  | Ø 100, Glycerine Bath              |
| A               | 1,5" Clamp                         |
| B               | Hose Adapter Ø 9   Staeubli RBE 03 |

| Description    |                               |
|----------------|-------------------------------|
| 0–6 bar        | 8ZML--0003 - Hose Adapter Ø 9 |
| 0–10 bar       | 8ZML--0004 - Hose Adapter Ø 9 |
| 0–10 bar       | 8ZML--0038 - Staeubli RBE 03  |
| SPAREPartS SET | 8ZDVC-0016                    |

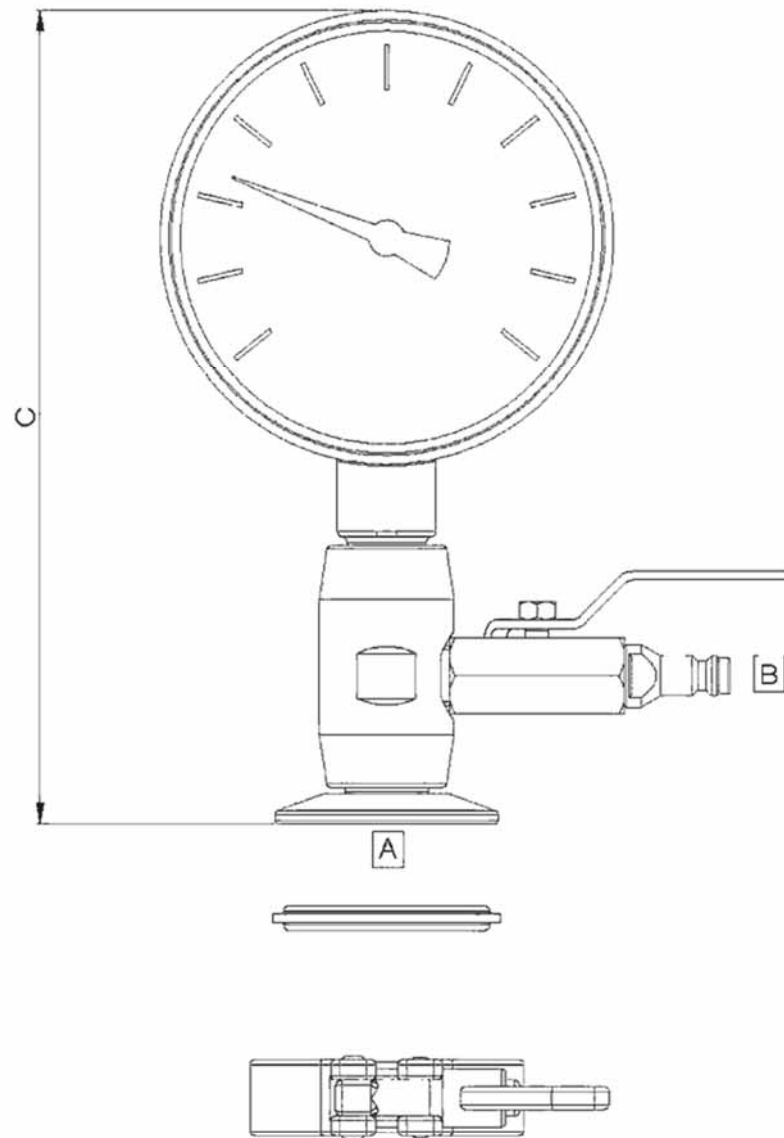
| PartSLIST: SPAREPartS SET    | QTY |
|------------------------------|-----|
| O-Ring Ø 7.66 x 1.78 - VITON | 2   |
| Flat Gasket PTFE             | 2   |
| Gasket Ring                  | 2   |
| Flat Gasket 1½" PTFE         | 2   |

## Vent &amp; Sanitary Valve



| Technical Data  |                       |
|-----------------|-----------------------|
| Material        | AISI 316L             |
| Gasket Material | Silicone              |
| Fluid Group     | Not Dangerous         |
| Pressure Gauge  | Ø 100, Glycerine Bath |
| A               | 1,5" Clamp            |
| B               | Stäubli RBE 03 Male   |

| Description |                                 |
|-------------|---------------------------------|
| 0–10 bar    | 8ZML--0037 - Stäubli RBE03 Male |



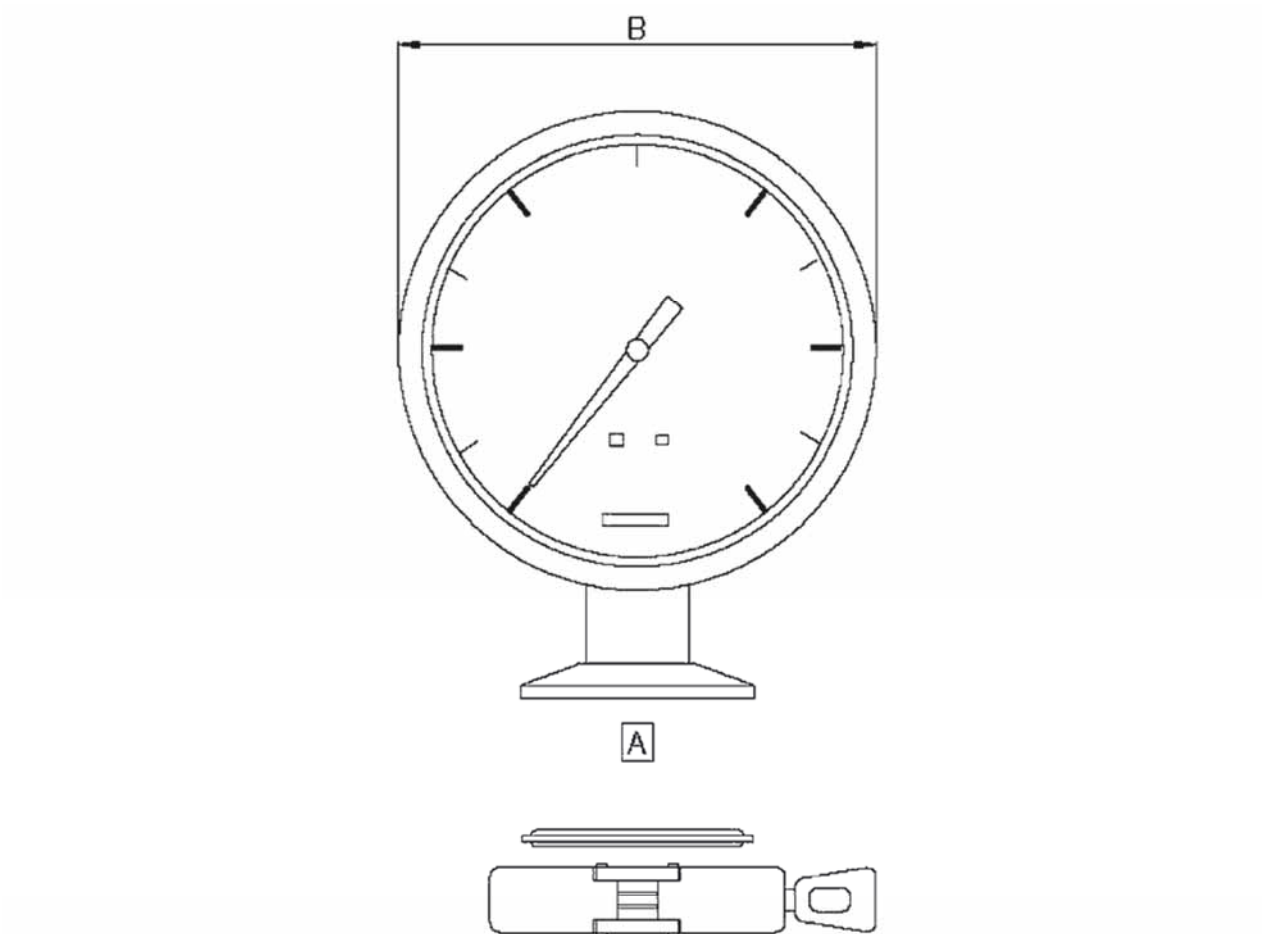
| TECHNICAL DATA  |                             |
|-----------------|-----------------------------|
| MATERIAL        | AISI 316L                   |
| GASKET MATERIAL | SILICONE                    |
| FLUID GROUP     | DANGEROUS AND NOT DANGEROUS |
| PRESSURE GAUGE  | ø100, GLICERINE BATH        |
| A               | 1.5" CLAMP                  |
| B               | HOSE ADAPTER ø9             |
| C               | 181                         |

**Part Numbers**

8ZML-0002



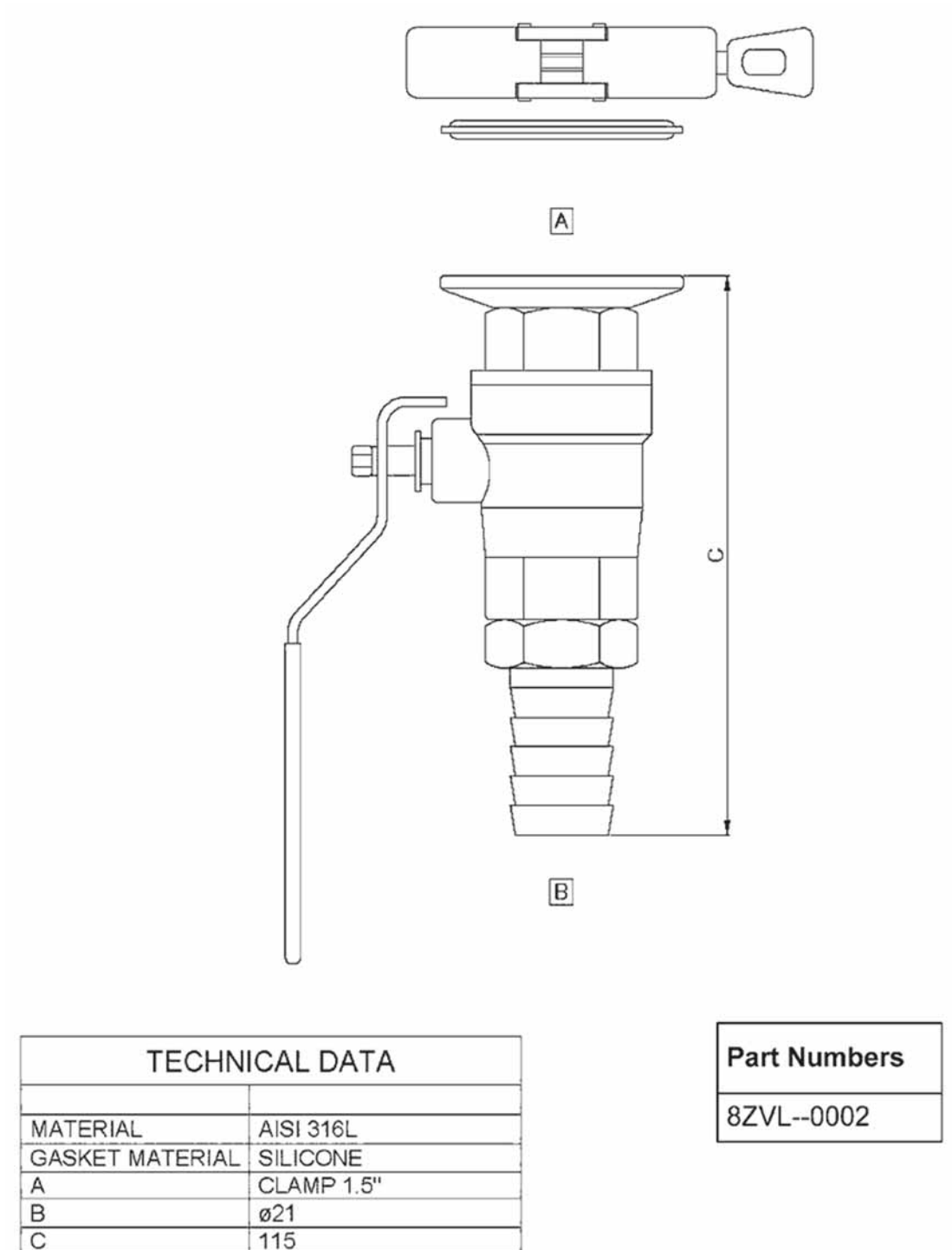
## Diaphragm Pressure Gauge

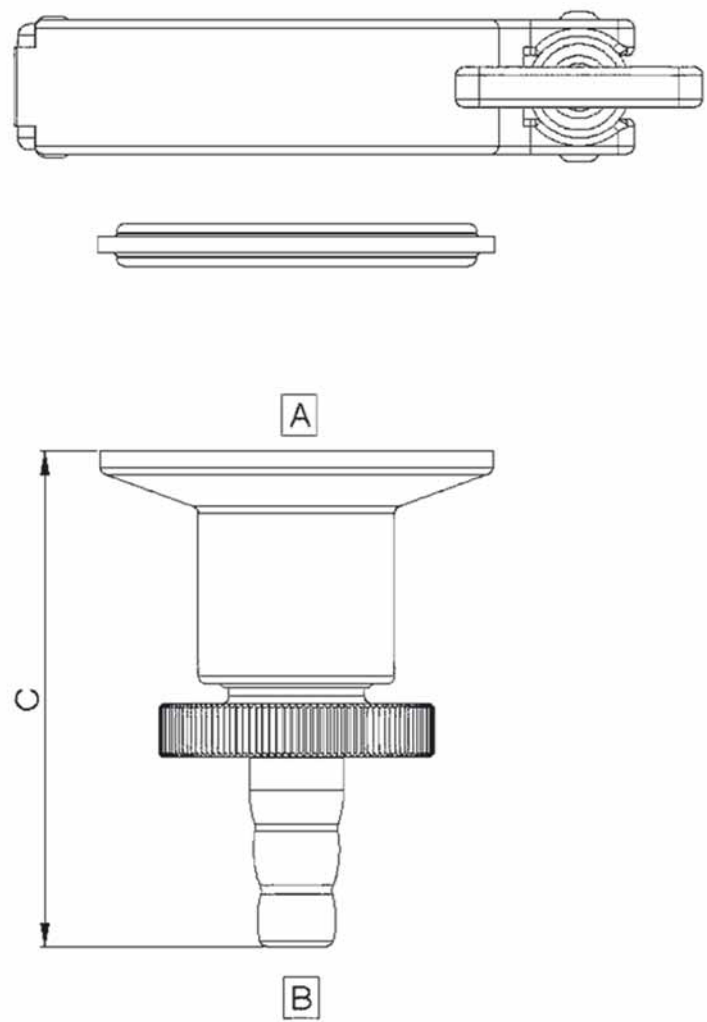


| TECHNICAL DATA  |                |
|-----------------|----------------|
| A               | CLAMP 1.5"     |
| B               | ø100           |
| MATERIAL        | AISI 316L      |
| GASKET MATERIAL | SILICONE       |
| CASE FILL       | GLICERINE BATH |

| Description | Part Numbers |
|-------------|--------------|
| 0 - 10 bar  | 8ZML--0007   |

## Ball Valve Clamp

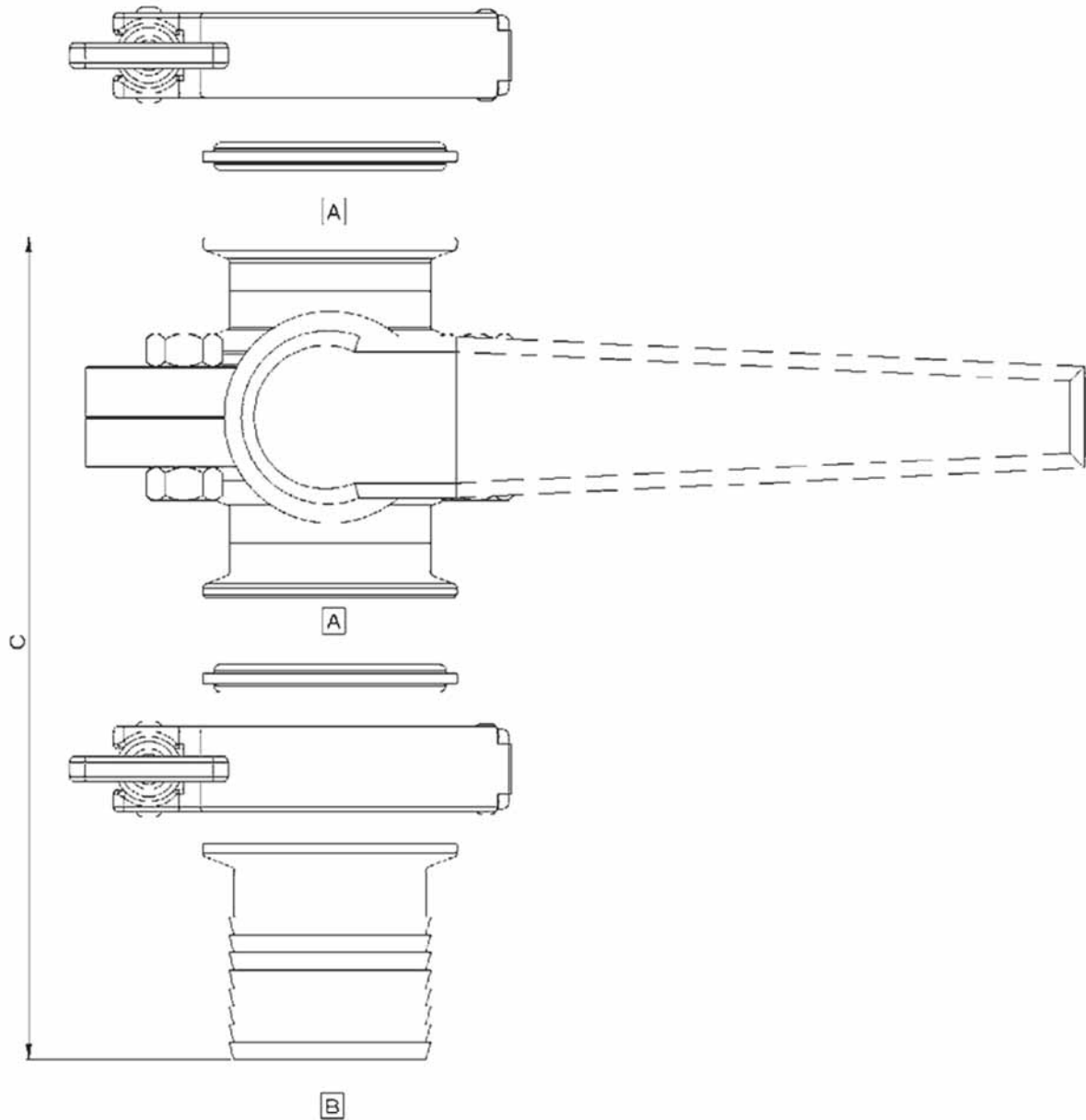




| TECHNICAL DATA  |            |
|-----------------|------------|
| MATERIAL        | AISI 316L  |
| GASKET MATERIAL | SILICONE   |
| A               | CLAMP 1.5" |
| B               | ø12        |
| C               | 63         |

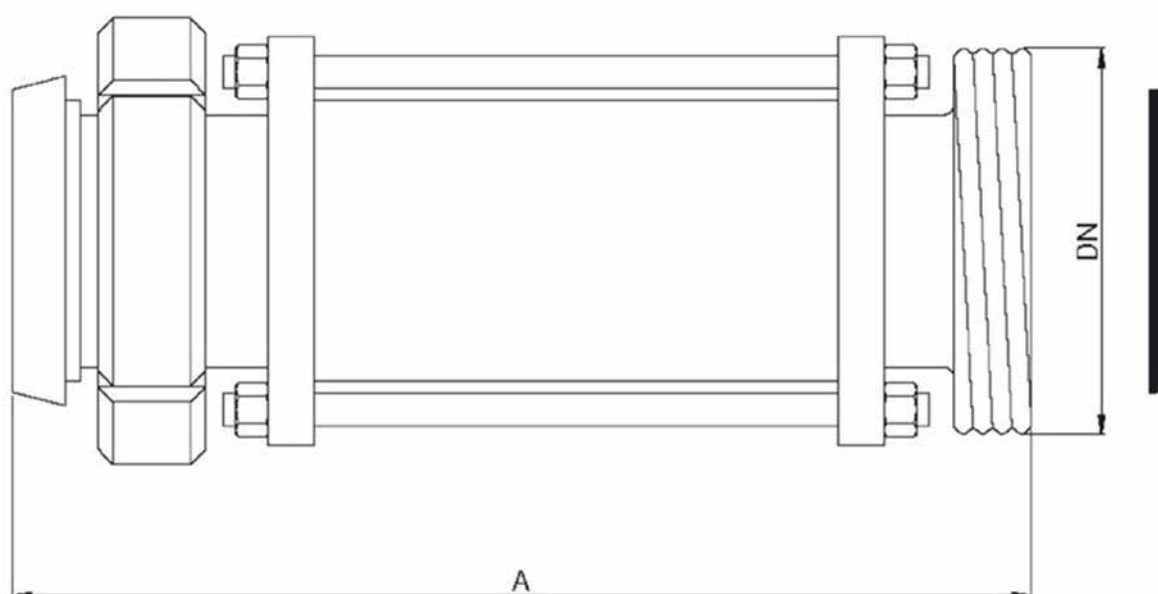
| Part Numbers |
|--------------|
| 8ZVL--0005   |

## Butterfly Valve- Clamp



| TECHNICAL DATA   |           |           |
|------------------|-----------|-----------|
| MATERIAL         | AISI 316L | AISI 316L |
| GASKETS MATERIAL | SILICONE  | SILICONE  |
| A                | 1.0"      | 1.5"      |
| B                | ø25.4     | ø38.1     |
| C                | 120       | 120       |

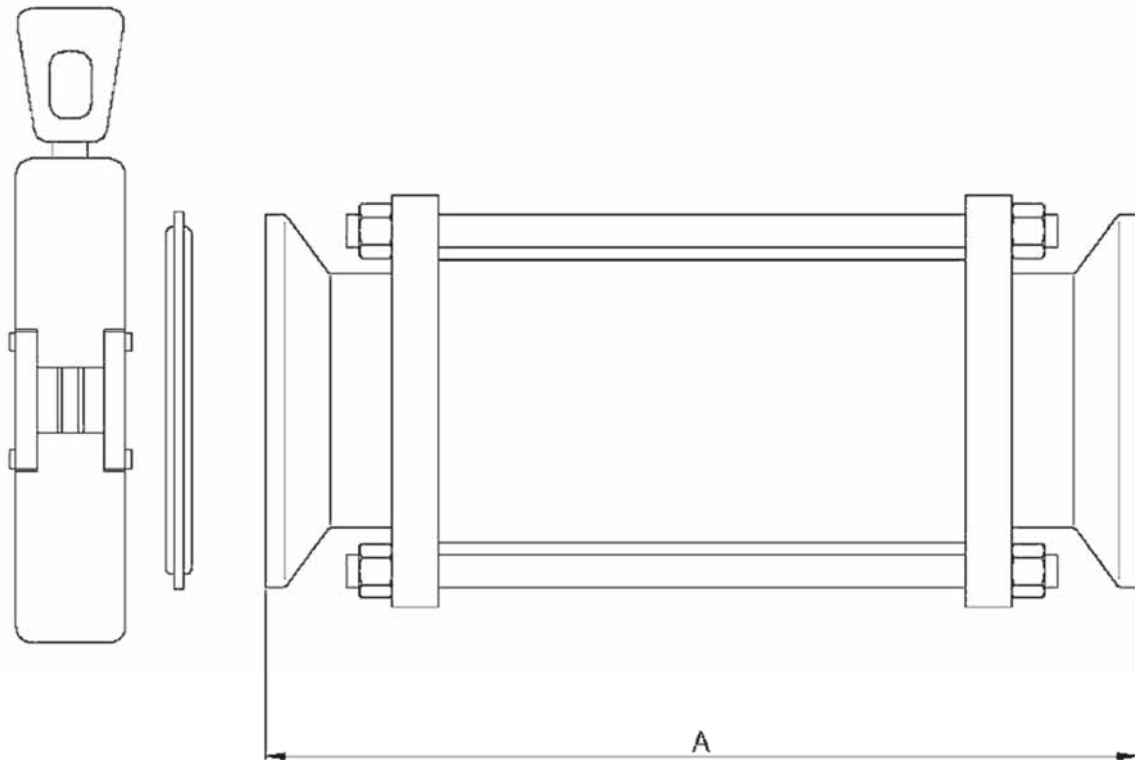
| Description | Part Numbers |
|-------------|--------------|
| Clamp 1.0"  | 8ZVL--0003   |
| Clamp 1.5"  | 8ZVL--0004   |



| TECHNICAL DATA |     |  |     |
|----------------|-----|--|-----|
| DN             | 316 |  | A   |
| 25             |     |  | 157 |
| 40             |     |  | 161 |
| 50             |     |  | 163 |
| 65             |     |  | 169 |
| 80             |     |  | 179 |
| 100            |     |  | 181 |

| Description | Part Numbers        |
|-------------|---------------------|
| <b>DN</b>   | <b>Material 316</b> |
| 25          | 8ZML-0014           |
| 40          | 8ZML-0015           |
| 50          | 8ZML-0016           |
| 65          | 8ZML-0017           |
| 80          | 8ZML-0018           |
| 100         | 8ZML-0019           |

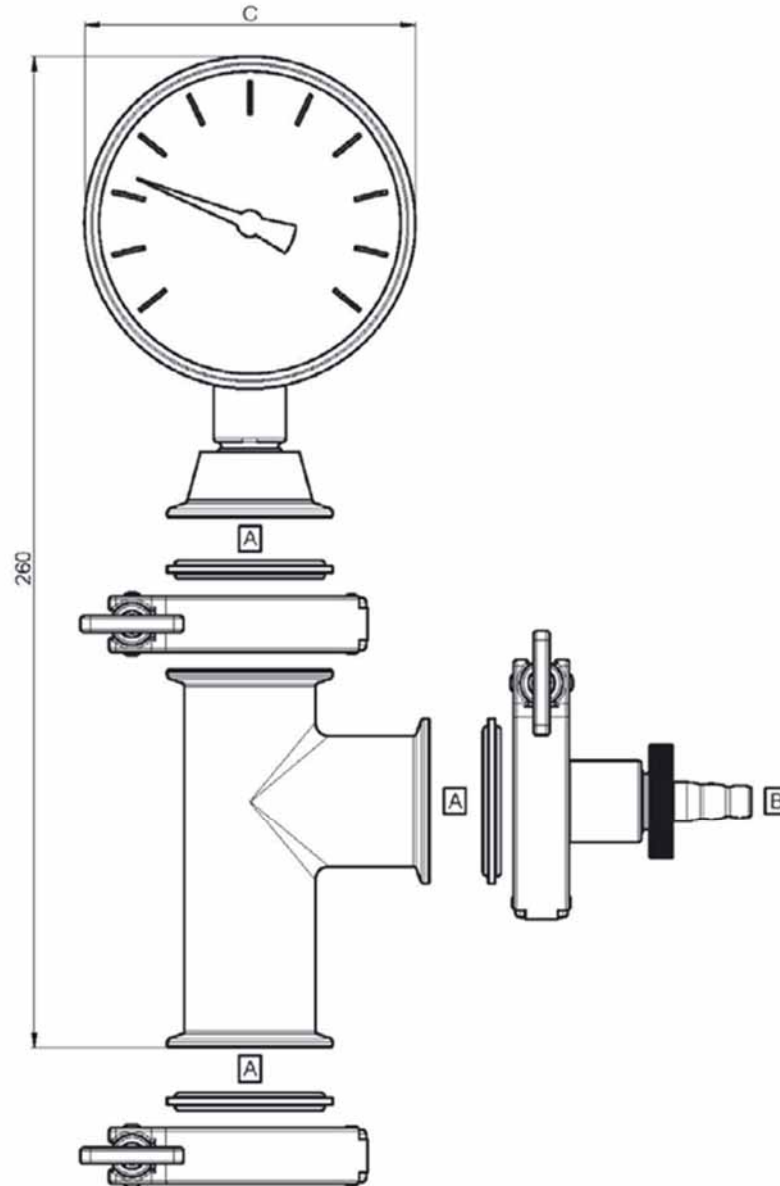
## Sight Glass - Clamps



| TECHNICAL DATA |     |  |     |
|----------------|-----|--|-----|
| DN             | 316 |  | A   |
| 1.0"           |     |  | 165 |
| 1.5"           |     |  | 165 |
| 2.0"           |     |  | 165 |
| 2.5"           |     |  | 165 |
| 3.0"           |     |  | 165 |
| 4.0"           |     |  | 165 |

| Description | Part Numbers        |
|-------------|---------------------|
| <b>DN</b>   | <b>Material 316</b> |
| 1.0"        | 8ZML-0008           |
| 1.5"        | 8ZML-0009           |
| 2.0"        | 8ZML-0010           |
| 2.5"        | 8ZML-0011           |
| 3.0"        | 8ZML-0012           |
| 4.0"        | 8ZML-0013           |

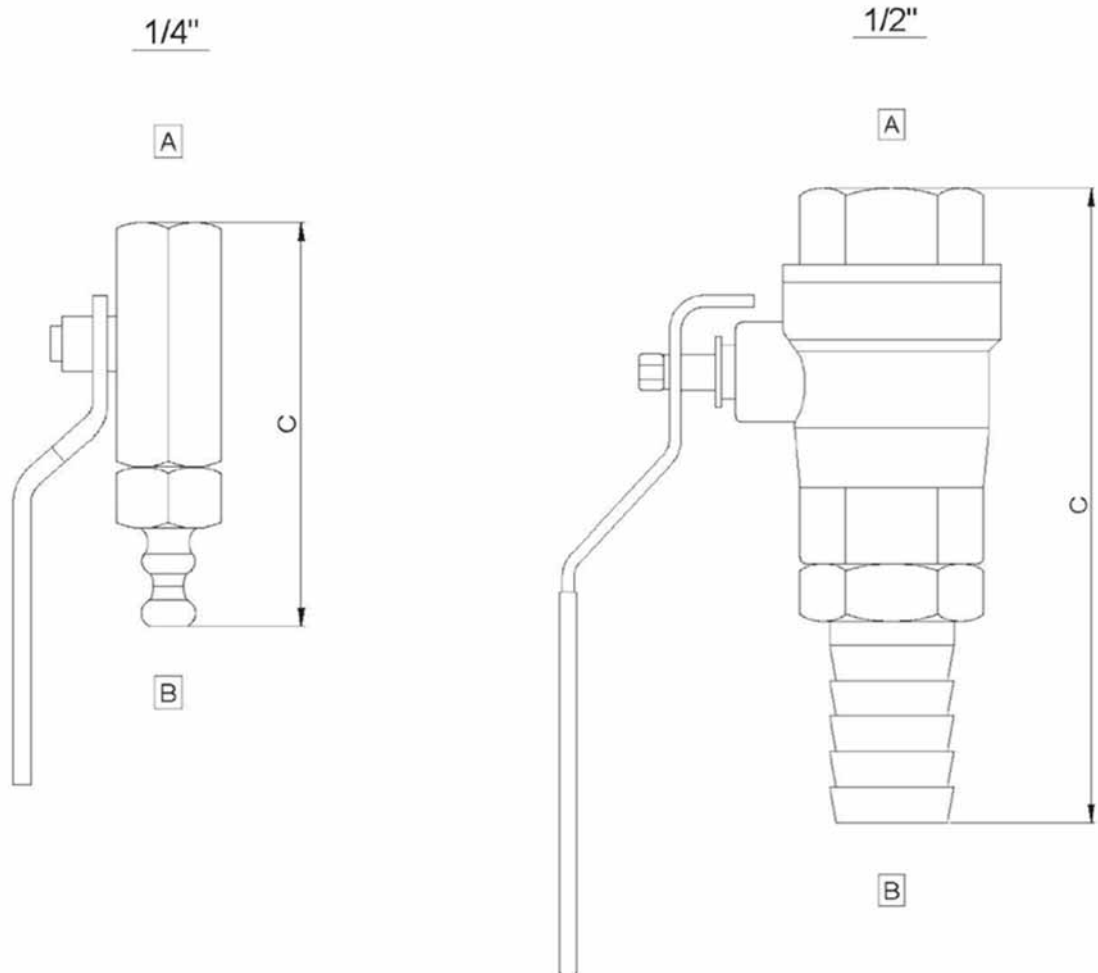
## Vent &amp; Valve Clamp &amp; Diaphragm Pressure Gauge



| TECHNICAL DATA  |                      |
|-----------------|----------------------|
| MATERIAL        | AISI 316L            |
| GASKET MATERIAL | SILICONE             |
| FLUID GROUP     | NOT DANGEROUS        |
| PRESSURE GAUGE  | ø100, GLICERINE BATH |
| A               | 1.5" CLAMP           |
| B               | HOSE ADAPTER ø12     |
| C               | ø100                 |
| CASE FILL       | GLICERINE BATH       |

| Description | Part Numbers |
|-------------|--------------|
| 0 - 6 bar   | 8ZML--0020   |
| 0 - 10 bar  | 8ZML--0021   |

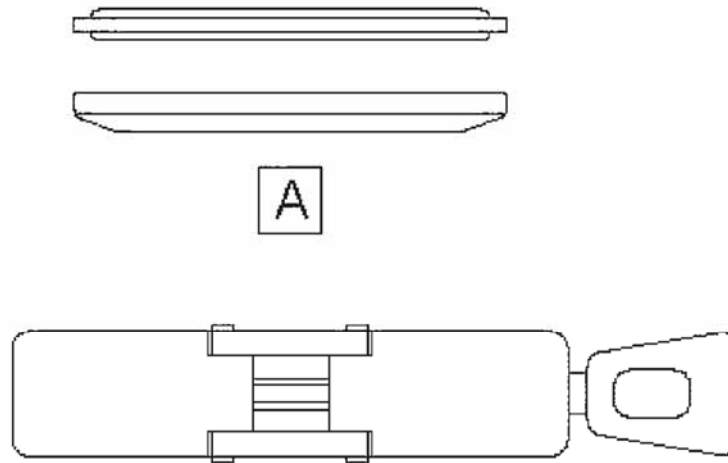




| TECHNICAL DATA |                      |                      |
|----------------|----------------------|----------------------|
| MATERIAL       | AISI 316L            | AISI 316L            |
| A              | BSP 1/4" FEMALE PART | BSP 1/2" FEMALE PART |
| B              | HOSE ADAPTER ø9      | ø21                  |
| C              | 66                   | 110                  |

| Description          | Part Numbers |
|----------------------|--------------|
| BSP 1/4" Female Part | 8ZSL--0006   |
| BSP 1/2" Female Part | 8ZSL--0007   |

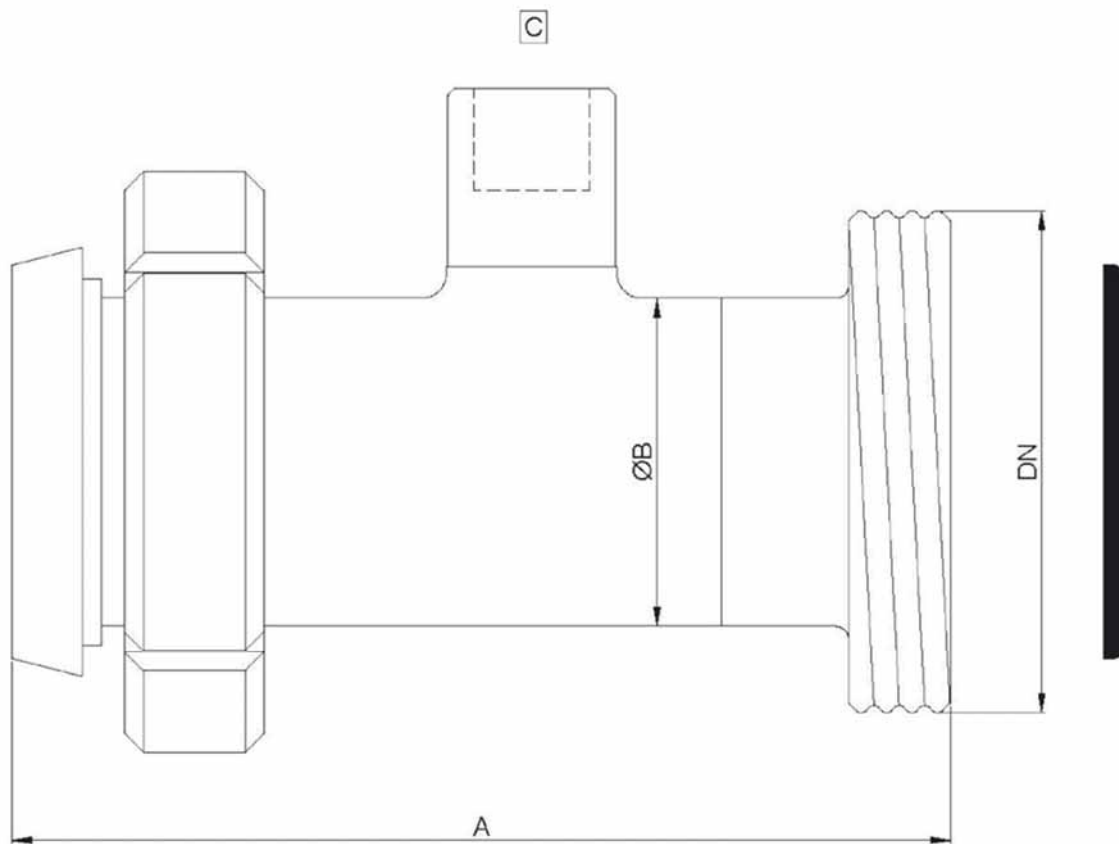
## Solid End Cap &amp; Clamp &amp; Gasket



| TECHNICAL DATA  |            |
|-----------------|------------|
|                 |            |
| MATERIAL        | AISI 316L  |
| GASKET MATERIAL | SILICONE   |
| A               | 1.5" CLAMP |

| Part Numbers |
|--------------|
| 8ZSL--0008   |

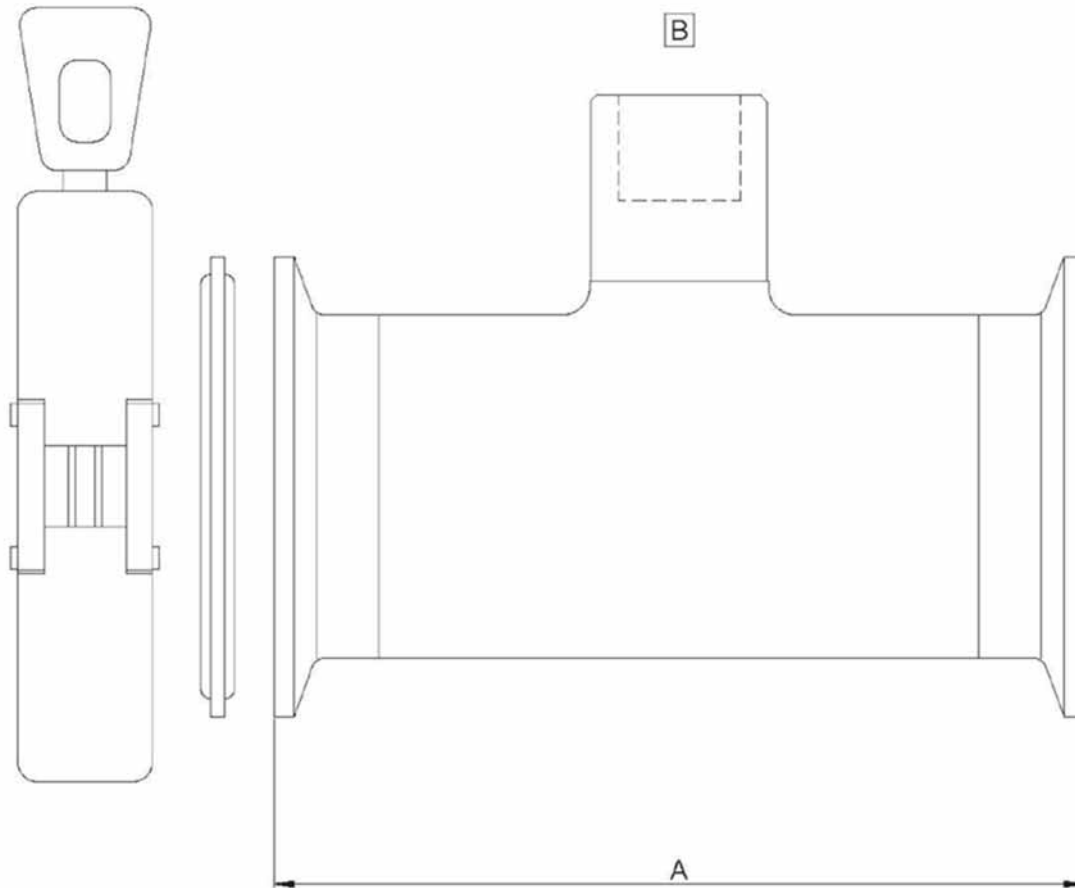
## Pressure Gauge Holder - DIN 11851



| TECHNICAL DATA |  |     |      |                         |           |
|----------------|--|-----|------|-------------------------|-----------|
| DN             |  | A   | ØB   | C                       | MATERIAL  |
| 25             |  | 161 | 1.0" | BSP 1/2"<br>FEMALE PART | AISI 316L |
| 40             |  | 119 | 1.5" |                         |           |
| 50             |  | 123 | 2.0" |                         |           |
| 65             |  | 123 | 2.5" |                         |           |
| 80             |  | 132 | 3.0" |                         |           |
| 100            |  | 158 | 4.0" |                         |           |

| Description (DN) | Part Numbers |
|------------------|--------------|
| 25               | 8ZML-0022    |
| 40               | 8ZML-0023    |
| 50               | 8ZML-0024    |
| 65               | 8ZML-0025    |
| 80               | 8ZML-0026    |
| 100              | 8ZML-0027    |

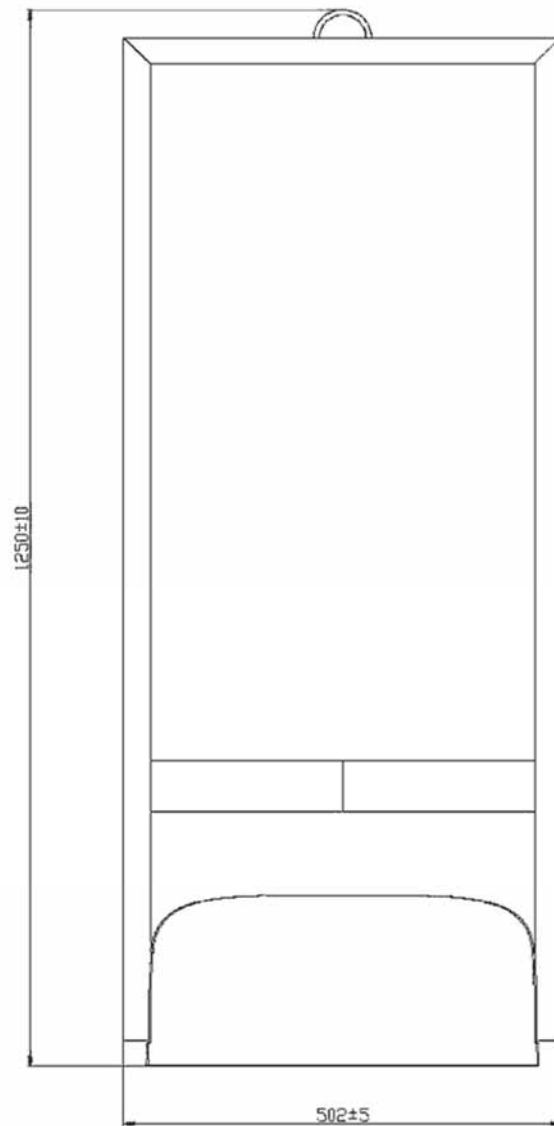
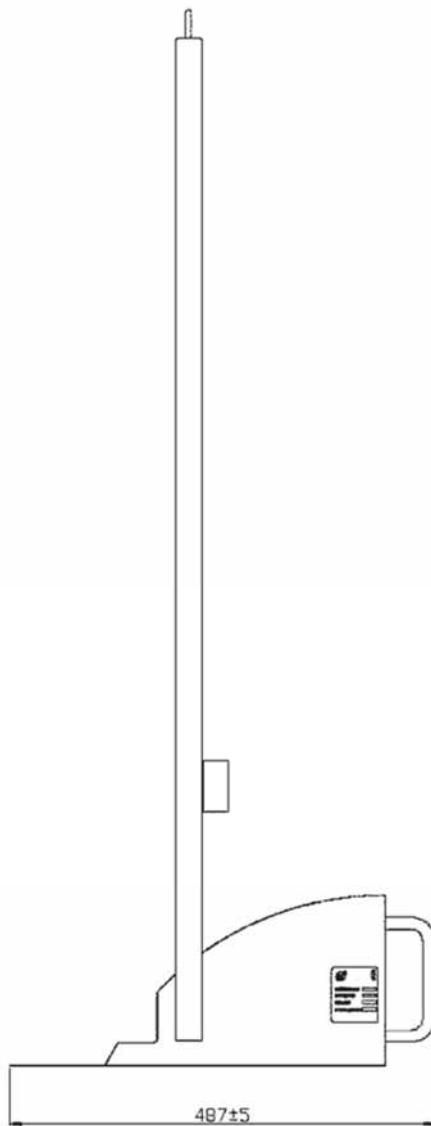
## Pressure Gauge Holder - Clamp



| TECHNICAL DATA |  |     |                         |           |
|----------------|--|-----|-------------------------|-----------|
| DN             |  | A   | B                       | MATERIAL  |
| 1.0"           |  | 130 | BSP 1/2"<br>FEMALE PART | AISI 316L |
| 1.5"           |  | 130 |                         |           |
| 2.0"           |  | 130 |                         |           |
| 2.5"           |  | 155 |                         |           |
| 3.0"           |  | 155 |                         |           |
| 4.0"           |  | 157 |                         |           |

| Description (DN) | Part Numbers |
|------------------|--------------|
| 1.0"             | 8ZML-0028    |
| 1.5"             | 8ZML-0029    |
| 2.0"             | 8ZML-0030    |
| 2.5"             | 8ZML-0031    |
| 3.0"             | 8ZML-0032    |
| 4.0"             | 8ZML-0033    |

## Module 12" &amp; 16" Lifter



## DATA LABEL

|                                                                                                                                                                         |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|   |            |
| PORTATA / CAPACITY                                                                                                                                                      | 50 kg MAX. |
| ARTICOLO / PART NUMBER                                                                                                                                                  |            |
| ANNO / YEAR                                                                                                                                                             |            |
| MATRICOLA / SERIAL NO.                                                                                                                                                  |            |

## Part Numbers

8ZBB--0001

## TECHNICAL DATA

| TECHNICAL DATA |            |
|----------------|------------|
| MATERIAL       | AISI 304   |
| WEIGHT         | 9 kg       |
| CAPACITY       | 50 kg MAX. |

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