

## filter housing for HDF series

**Connection geometry:** 1/8" to 2" in BSP or NPT, cone a. thread 1/4" to 1-1/2", special connection on request.

**Ps :** 100 to 1,100 bar

**Ts :** -60°C to +300°C

**Housing material :** aluminum, V2A, V4A and duplex

**Housing seal:** all common elastomers

**Media:** liquid and gaseous media

**Classification:** according to PED 2014/68/EU

**Stainless steel series 750 bar and 1,000 bar :** suitable for hydrogen applications

| type                                        | Pressure 1 | Temp 1 | pressure 2 | Temp 2 | material | connections    |
|---------------------------------------------|------------|--------|------------|--------|----------|----------------|
| aluminum steel series                       | 100 bar    | 700 °C | -          | -      | AW 6061  | 1/8" to 2"     |
| stainless steel series                      | 200 bar    | 100 °C | 160 bar    | 300    | 1.4301   | 1/8" to 2"     |
| Heavy stainless steel series                | 450 bar    | 100 °C | 350 bar    | 250    | 1.4571   | 1/8" to 2"     |
| Heavy stainless steel series cone a. thread | 750 bar    | 80 °C  | 650 bar    | 250    | 1.4571   | 1/4" to 1-1/2" |
| Heavy stainless steel series cone a. thread | 1000 bar   | 80 °C  | 800 bar    | 250    | 1.4571   | 1/4" to 1-1/2" |
| Duplex series                               | 1100 bar   | 80 °C  | 1000 bar   | 200    | 1.4410   | 1/8" to 1 1/4" |

## filter inserts for the filter housings the HDF series

**Metal fiber fleece** is available in finenesses from 3µm to 100µm, due to its three-dimensional structure and very high dirt holding capacity (depth filtration).

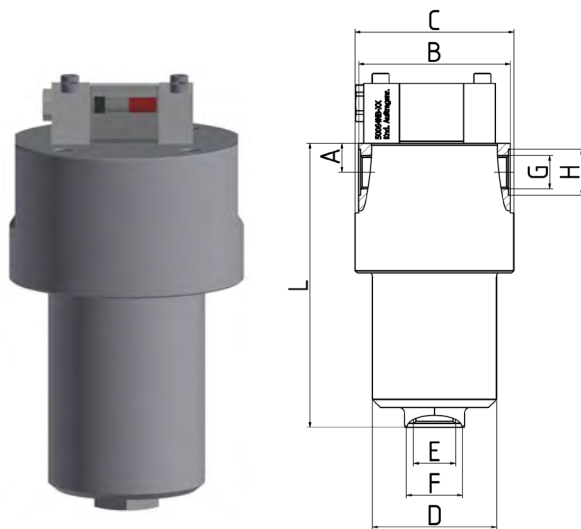
**Wire mesh** is available in finenesses from 5µm to 2,000µm and, as a surface filter, is very easy to clean and backwash.

**Glass fiber fleece** is available in finenesses from 3µm to 50µm and is an inexpensive alternative to metal filter fabrics.

| type                      | -20 / 100°C | -200 / 400°C | back-washable | differential pressure resistance | Increased filter area | cleaning bear | material                   | media durability |
|---------------------------|-------------|--------------|---------------|----------------------------------|-----------------------|---------------|----------------------------|------------------|
| Pleated glued             | +           | -            | -             | 20 bar                           | +                     | +             | aluminum / stainless steel | -                |
| Cylindrically glued       | +           | -            | -             | 20 bar                           | -                     | +             | aluminum / stainless steel | -                |
| Pleated adhesive-free     | +           | +            | 3 bar         | 20 bar                           | +                     | -             | stainless steel V4A        | +                |
| Cylindrical adhesive-free | +           | +            | -             | 20 bar                           | -                     | +             | stainless steel V4A        | +                |

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## Aluminum high-pressure filter HDF series P S 100 bar



### Data

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| <b>Connection geometry</b>              | 1/8" to 2" in BSP or NPT, special connection on request |
| <b>Ps</b>                               | 100 bar                                                 |
| <b>Ts</b>                               | -60° C to +100°C **                                     |
| <b>Housing material</b>                 | aluminum                                                |
| <b>housing seal</b>                     | All common elastomers                                   |
| <b>Media</b>                            | Liquid and gaseous media                                |
| <b>Classification</b>                   | According to PED 2014/68/EU                             |
| <b>Optional contamination indicator</b> | Optical and electrical                                  |

| size                                              | HDF 1                              | HDF 2                              | HDF 3                              | HDF 4                              | HDF 5                              | HDF 6       | HDF 7       | HDF 8        | HDF 9        |
|---------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------|-------------|--------------|--------------|
| connection "G"                                    | BSP G1/8"                          | BSP G1/4"                          | BSP G3/8"                          | BSP G1/2"                          | BSP G3/4"                          | BSP G1"     | BSP G1 1/4" | BSP G1 1/2"  | BSP G2"      |
| Article                                           | 16101                              | 16102                              | 16103                              | 16104                              | 16105                              | 16106       | 16107       | 16108        | 16109        |
| connection "G"                                    | 1/8" NPT                           | 1/4" NPT                           | 3/8" NPT                           | 1/2" NPT                           | 3/4" NPT                           | 1" NPT      | 1 1/4" NPT  | 1 1/2" NPT   | 2" NPT       |
| Article                                           | 16111                              | 16112                              | 16113                              | 16114                              | 16115                              | 16116       | 16117       | 16118        | 16119        |
| <b>A ±0.5</b>                                     | 8.5 mm                             | 13 mm                              | 14.5 mm                            | 17.5 mm                            | 20 mm                              | 30 mm       | 34 mm       | 36 mm        | 42 mm        |
| <b>A* ±0.5</b>                                    | --                                 | 13 mm                              | 14.5 mm                            | 22.5 mm                            | 25 mm                              | 30 mm       | 34 mm       | 36 mm        | 42 mm        |
| <b>B ±0.5</b>                                     | 47 mm                              | 76 mm                              | 76 mm                              | 104 mm                             | 104 mm                             | 118 mm      | 118 mm      | 149          | 162          |
| <b>C -1</b>                                       | Ø 50 mm                            | Ø 80 mm                            | Ø 80 mm                            | Ø 110 mm                           | Ø 110 mm                           | Ø 130 mm    | Ø 130 mm    | Ø 160 mm     | Ø 180 mm     |
| <b>D +0.5</b>                                     | 40 mm                              | 62 mm                              | 62 mm                              | 73 mm                              | 73 mm                              | 95 mm       | 95 mm       | 125 mm       | 125 mm       |
| <b>drain "E"</b>                                  | BSP G1/4"                          | BSP G1/2"                          | BSP G1/2"                          | BSP G1/2"                          | BSP G1/2"                          | BSP G1/2"   | BSP G1/2"   | BSP G1/2"    | BSP G1/2"    |
| <b>F</b>                                          | Ø 20 mm                            | Ø 28 mm                            | Ø 28 mm                            | Ø 28 mm                            | Ø 28 mm                            | Ø 29 mm     | Ø 29 mm     | Ø 29 mm      | Ø 29 mm      |
| <b>H</b>                                          | Ø 15 mm                            | Ø 20 mm                            | Ø 23 mm                            | Ø 29 mm                            | Ø 33 mm                            | Ø 41 mm     | Ø 51 mm     | Ø 56 mm      | Ø 74 mm      |
| <b>L</b>                                          | 92 mm ±1.5                         | 139.5 mm ±2                        | 143 mm ±2                          | 204 mm ±2.5                        | 214 mm ±2.5                        | 293 mm ±3   | 301 mm ±3   | 379 mm ±3.5  | 391 mm ±3.5  |
| <b>L*</b>                                         | --                                 | 139.5 mm ±2                        | 143 mm ±2                          | 209 mm ±2.5                        | 219 mm ±2.5                        | 293 mm ±3   | 301 mm ±3   | 379 mm ±3.5  | 391 mm ±3.5  |
| <b>Contents</b>                                   | 0.03 l                             | 0.18 l                             | 0.19 l                             | 0.47 l                             | 0.49 l                             | 1.19 l      | 1.25 l      | 2.61 l       | 2.79 l       |
| <b>Classification according to PED 2014/68/EU</b> | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | category II | category II | category III | category III |

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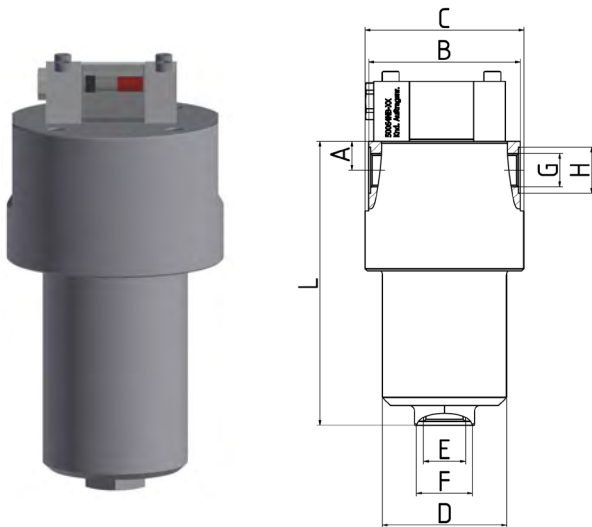
\* with contamination indicator, free dimension tolerances according to DIN 2768-m  
\*\* depending on the sealing material  
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Subject to technical and  
dimensional changes

## stainless steel high-pressure filter HDF series PS 200 bar



### Data

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| <b>Connection geometry</b>              | 1/8" to 2" in BSP or NPT, special connection on request |
| <b>Ps</b>                               | 200 bar                                                 |
| <b>Ts</b>                               | -60° C to +100°C **                                     |
| <b>or</b>                               |                                                         |
| <b>Ps</b>                               | 160 bar                                                 |
| <b>Ts</b>                               | -60° C to +300°C **                                     |
| <b>housing material</b>                 | 1.4301                                                  |
| <b>Housing seal</b>                     | All common elastomers                                   |
| <b>Media</b>                            | Liquid and gaseous media                                |
| <b>Classification</b>                   | According to PED 2014/68/EU                             |
| <b>Optional Contamination indicator</b> | Optical and electrical                                  |

| size                                              | HDF 1                              | HDF 2                              | HDF 3                              | HDF 4                              | HDF 5                              | HDF 6        | HDF 7        | HDF 8        | HDF 9        |
|---------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------|--------------|--------------|--------------|
| connection "G"                                    | BSP G1/8"                          | BSP G1/4"                          | BSP G3/8"                          | BSP G1/2"                          | BSP G3/4"                          | BSP G1"      | BSP G1 1/4"  | BSP G1 1/2"  | BSP G2"      |
| Article                                           | 16121                              | 16122                              | 16123                              | 16124                              | 16125                              | 16126        | 16127        | 16128        | 16129        |
| connection "G"                                    | 1/8" NPT                           | 1/4" NPT                           | 3/8" NPT                           | 1/2" NPT                           | 3/4" NPT                           | 1" NPT       | 1 1/4" NPT   | 1 1/2" NPT   | 2" NPT       |
| Article                                           | 16131                              | 16132                              | 16133                              | 16134                              | 16135                              | 16136        | 16137        | 16138        | 16139        |
| <b>A ±0.5</b>                                     | 10 mm                              | 13 mm                              | 14.5 mm                            | 17.5 mm                            | 20 mm                              | 30 mm        | 34 mm        | 36 mm        | 42 mm        |
| <b>A* ±0.5</b>                                    | --                                 | 13 mm                              | 14.5 mm                            | 22.5 mm                            | 25 mm                              | 30 mm        | 34 mm        | 36 mm        | 42 mm        |
| <b>B ±0.5</b>                                     | 55 mm                              | 76 mm                              | 76 mm                              | 104 mm                             | 104 mm                             | 118 mm       | 118 mm       | 149 mm       | 162 mm       |
| <b>C -1</b>                                       | Ø 60 mm                            | Ø 80 mm                            | Ø 80 mm                            | Ø 110 mm                           | Ø 110 mm                           | Ø 130 mm     | Ø 130 mm     | Ø 160 mm     | Ø 180 mm     |
| <b>D ±0.5</b>                                     | Ø 40 mm                            | Ø 62 mm                            | Ø 62 mm                            | Ø 75 mm                            | Ø 75 mm                            | Ø 95 mm      | Ø 95 mm      | Ø 125 mm     | Ø 125 mm     |
| <b>drain "E"</b>                                  | BSP G1/4"                          | BSP G1/2"                          | BSP G1/2"                          | BSP G1/2"                          | BSP G1/2"                          | BSP G1/2"    | BSP G1/2"    | BSP G1/2"    | BSP G1/2"    |
| <b>F</b>                                          | Ø 20 mm                            | Ø 28 mm                            | Ø 28 mm                            | Ø 29 mm                            | Ø 29 mm                            | Ø 29 mm      | Ø 29 mm      | Ø 29 mm      | Ø 29 mm      |
| <b>H</b>                                          | Ø 15 mm                            | Ø 20 mm                            | Ø 23 mm                            | Ø 29 mm                            | Ø 33 mm                            | Ø 41 mm      | Ø 51 mm      | Ø 56 mm      | Ø 74 mm      |
| <b>L</b>                                          | 100 mm ±1.5                        | 141 mm ±2                          | 144.5 mm ±2                        | 204 mm ±2.5                        | 211 mm ±2.5                        | 293 mm ±3    | 301 mm ±3    | 380 mm ±3.5  | 391 mm ±3.5  |
| <b>L*</b>                                         | --                                 | 141 mm ±2                          | 144.5 mm ±2                        | 209 mm ±2.5                        | 216 mm ±2.5                        | 293 mm ±3    | 301 mm ±3    | 379 mm ±3.5  | 391 mm ±3.5  |
| <b>Contents</b>                                   | 0.03 l                             | 0.18 l                             | 0.19 l                             | 0.47 l                             | 0.49 l                             | 1.19 l       | 1.25 l       | 2.61 l       | 2.79 l       |
| <b>Classification according to PED 2014/68/EU</b> | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | acc. art.4 (3) sound eng. practice | category III | category III | category III | category III |

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\* with contamination indicator, free dimension tolerances according to DIN 2768-m  
\*\* depending on the sealing material  
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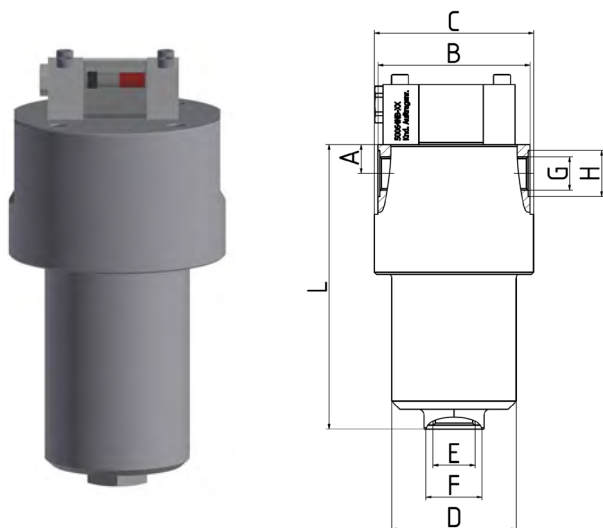
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dimensional changes

## stainless steel high-pressure filter

### HDF series PS 450 bar



#### Data

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| <b>Connection geometry</b>              | 1/8" to 2" in BSP or NPT, special connection on request |
| <b>Ps</b>                               | 450 bar                                                 |
| <b>Ts</b>                               | -60° C to +100°C **                                     |
| <b>or</b>                               |                                                         |
| <b>Ps</b>                               | 350 bar                                                 |
| <b>Ts</b>                               | -60° C to +250°C **                                     |
| <b>housing material</b>                 | 1.4571/1.4404                                           |
| <b>Housing seal</b>                     | All common elastomers                                   |
| <b>Media</b>                            | Liquid and gaseous media                                |
| <b>Classification</b>                   | According to PED 2014/68/EU                             |
| <b>Optional Contamination indicator</b> | Optical and electrical                                  |

| size                                              | HDF 1        | HDF 2        | HDF 3        | HDF 4        | HDF 5        | HDF 6        | HDF 7        | HDF 8       | HDF 9       |
|---------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| connection "G"                                    | BSP G1/8"    | BSP G1/4"    | BSP G3/8"    | BSP G1/2"    | BSP G3/4"    | BSP G1"      | BSP G1 1/4"  | BSP G1 1/2" | BSP G2"     |
| Article                                           | 16141        | 16142        | 16143        | 16144        | 16145        | 16146        | 16147        | 16148       | 16149       |
| connection "G"                                    | 1/8" NPT     | 1/4" NPT     | 3/8" NPT     | 1/2" NPT     | 3/4" NPT     | 1" NPT       | 1 1/4" NPT   | 1 1/2" NPT  | 2" NPT      |
| Article                                           | 16151        | 16152        | 16153        | 16154        | 16155        | 16156        | 16157        | 16158       | 16159       |
| <b>A ±0.5</b>                                     | 10 mm        | 12 mm        | 14.5 mm      | 20 mm        | 21 mm        | 30 mm        | 33 mm        | 37 mm       | 46 mm       |
| <b>A* ±0.5</b>                                    | –            | 12 mm        | 19.5 mm      | 25 mm        | 26 mm        | 30 mm        | 35 mm        | 39 mm       | 46 mm       |
| <b>B ±0.5</b>                                     | 56 mm        | 95 mm        | 95 mm        | 114 mm       | 114 mm       | 139 mm       | 139 mm       | 179 mm      | 185 mm      |
| <b>C -1</b>                                       | Ø 60 mm      | Ø 100 mm     | Ø 100 mm     | Ø 120 mm     | Ø 120 mm     | Ø 150 mm     | Ø 150 mm     | Ø 190 mm    | Ø 200 mm    |
| <b>D ±0.5</b>                                     | Ø 39 mm      | Ø 73 mm      | Ø 73 mm      | Ø 92 mm      | Ø 92 mm      | Ø 117 mm     | Ø 117 mm     | Ø 152 mm    | Ø 152 mm    |
| <b>drain "E"</b>                                  | BSP G1/8"    | BSP G1/2"    | BSP G1/2"    | BSP G1/2"    | BSP G1/2"    | BSP G1/2"    | BSP G1/2"    | BSP G1/2"   | BSP G1/2"   |
| <b>F</b>                                          | Ø 15 mm      | Ø 29 mm      | Ø 29 mm      | Ø 29 mm      | Ø 29 mm      | Ø 29 mm      | Ø 29 mm      | Ø 29 mm     | Ø 29 mm     |
| <b>H</b>                                          | Ø 15 mm      | Ø 20 mm      | Ø 23 mm      | Ø 29 mm      | Ø 33 mm      | Ø 41 mm      | Ø 51 mm      | Ø 56 mm     | Ø 74 mm     |
| <b>L</b>                                          | 92.5 mm ±1.5 | 140.5 mm ±2  | 144.5 mm ±2  | 214 mm ±2.5  | 218 mm ±2.5  | 301 mm ±3    | 310.5 mm ±3  | 399 mm ±3   | 414 mm ±3.5 |
| <b>L*</b>                                         | –            | 140.5 mm ±2  | 149.5 mm ±2  | 219 mm ±2.5  | 223 mm ±2.5  | 303 mm ±3    | 312.5 mm ±3  | 401 mm ±3   | 414 mm ±3.5 |
| <b>Contents</b>                                   | 0.03 l       | 0.18 l       | 0.19 l       | 0.48 l       | 0.5 l        | 1.16 l       | 1.23 l       | 2.7 l       | 2.89 l      |
| <b>Classification according to PED 2014/68/EU</b> | category I   | category III | category III | category III | category III | category III | category III | category IV | category IV |

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\* with contamination indicator, free dimension tolerances according to DIN 2768-m  
 \*\* depending on the sealing material  
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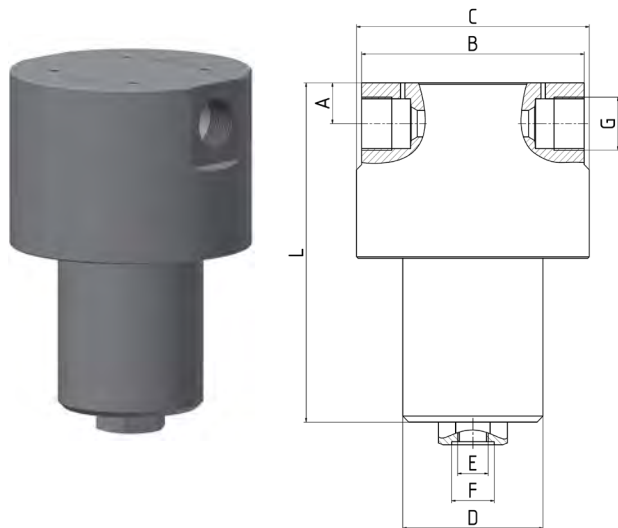
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## stainless steel high-pressure filter

### HDF series PS 750 bar



#### Data

|                                                        |                                                                                                 |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Connection geometry</b>                             | 1/4" to 1-1/2" cone and thread ,<br>please tell us the manufacturer<br>of your screw connection |
| <b>Ps</b><br><b>Ts</b><br>or<br><b>Ps</b><br><b>Ts</b> | 750 bar<br>-60° C to +80°C **<br><br>650 bar<br>-60° C to +250°C **                             |
| <b>housing material</b>                                | 1.4571/1.4404                                                                                   |
| <b>Housing seal</b>                                    | All common elastomers                                                                           |
| <b>Media</b>                                           | Liquid and gaseous media                                                                        |
| <b>Classification</b>                                  | According to PED 2014/68/EU                                                                     |

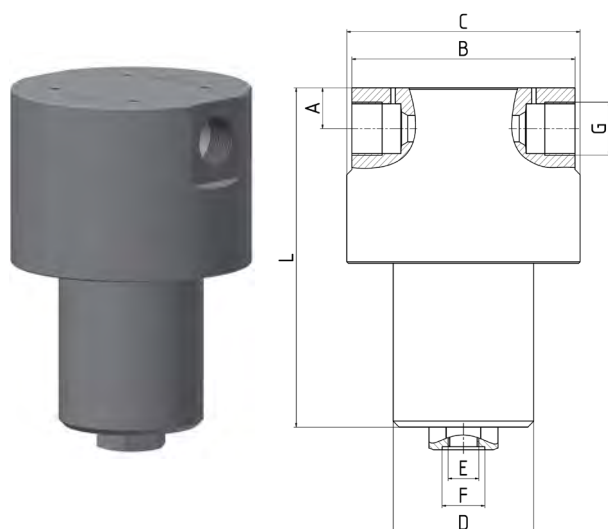
| size                                                  | HDF 1           | HDF 2           | HDF 3             | HDF 4           | HDF 5           | HDF 6              | HDF 7              |
|-------------------------------------------------------|-----------------|-----------------|-------------------|-----------------|-----------------|--------------------|--------------------|
| "G" NW tube<br>thread                                 | 1/4"<br>7/16-20 | 3/8"<br>9/16-18 | 9/16"<br>13/16-18 | 3/4"<br>3/4-14  | 1"<br>1-3/8-12  | 1-1/2"<br>1-7/8-12 | 1-1/2"<br>1-7/8-12 |
| Article                                               | 16181           | 16182           | 16183             | 16184           | 16185           | 16186              | 16186              |
| <b>A ±0.5</b>                                         | 9 mm            | 17 mm           | 17 mm             | 22 mm           | 27 mm           | 37 mm              | 37 mm              |
| <b>B ±0.5</b>                                         | 62 mm           | 104 mm          | 104 mm            | 124 mm          | 152 mm          | 189 mm             | 189 mm             |
| <b>C ±2</b>                                           | Ø 65 mm         | Ø 110 mm        | Ø 110 mm          | Ø 130 mm        | Ø 160 mm        | Ø 200 mm           | Ø 200 mm           |
| <b>D ±0.8</b>                                         | Ø 43 mm         | Ø 82.5 mm       | Ø 82.5 mm         | Ø 95.5 mm       | Ø 95.5 mm       | Ø 127 mm           | Ø 127 mm           |
| <b>drain "E"</b>                                      | BSP G1/8"       | BSP G1/2"       | BSP G1/2"         | BSP G1/2"       | BSP G1/2"       | BSP G1/2"          | BSP G1/2"          |
| <b>F</b>                                              | Ø 15 mm         | Ø 29 mm         | Ø 29 mm           | Ø 29 mm         | Ø 29 mm         | Ø 29 mm            | Ø 29 mm            |
| <b>L</b>                                              | 92 mm<br>±1.5   | 156 mm<br>±2    | 156 mm<br>±2      | 229 mm<br>±2.5  | 239 mm<br>±2.5  | 327 mm<br>±3       | 327mm<br>±3        |
| <b>Contents</b>                                       | 0.03 l          | 0.24 l          | 0.19 l            | 0.40 l          | 0.41 l          | 0.98 l             | 0.98 l             |
| <b>Classification according<br/>to PED 2014/68/EU</b> | category<br>I   | category<br>III | category<br>III   | category<br>III | category<br>III | category<br>III    | category<br>III    |

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free dimension tolerances according to DIN 2768-m  
\*\* depending on the sealing material  
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## stainless steel high-pressure filter

### HDF series PS 1000 bar



#### Data

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| <b>Connection geometry</b> | 1/4" to 1-1/2" cone and thread, please tell us the manufacturer of your screw connection |
| <b>Ps</b>                  | 1000 bar                                                                                 |
| <b>Ts</b>                  | -60° C to +80° C **                                                                      |
| <b>or Ps</b>               | 800 bar                                                                                  |
| <b>Ts</b>                  | -60° C to +250° C **                                                                     |
| <b>housing material</b>    | 1.4571/1.4404                                                                            |
| <b>Housing seal</b>        | All common elastomers                                                                    |
| <b>Media</b>               | Liquid and gaseous media                                                                 |
| <b>Classification</b>      | According to PED 2014/68/EU                                                              |

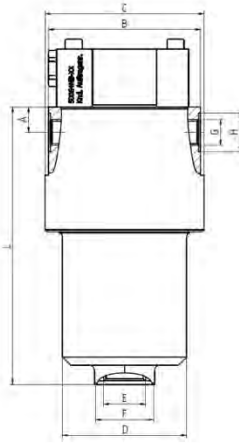
| size                                              | HDF 1           | HDF 2           | HDF 3             | HDF 4          | HDF 5          | HDF 6              | HDF 7              |
|---------------------------------------------------|-----------------|-----------------|-------------------|----------------|----------------|--------------------|--------------------|
| "G" NW tube thread                                | 1/4"<br>7/16-20 | 3/8"<br>9/16-18 | 9/16"<br>13/16-18 | 3/4"<br>3/4-14 | 1"<br>1-3/8-12 | 1-1/2"<br>1-7/8-12 | 1-1/2"<br>1-7/8-12 |
| Article                                           | 16191           | 16192           | 16193             | 16194          | 16195          | 16196              | 16196              |
| <b>A ±0.5</b>                                     | 11 mm           | 20 mm           | 20 mm             | 26 mm          | 30 mm          | 38 mm              | 38 mm              |
| <b>B ±2</b>                                       | 67 mm           | 136 mm          | 134 mm            | 154 mm         | 154 mm         | 199 mm             | 199 mm             |
| <b>C ±2</b>                                       | Ø 70 mm         | Ø 139 mm        | Ø 139 mm          | Ø 160 mm       | Ø 160 mm       | Ø 210 mm           | Ø 210 mm           |
| <b>D ±1</b>                                       | Ø 55 mm         | Ø 110 mm        | Ø 110 mm          | Ø 136 mm       | Ø 136 mm       | Ø 152 mm           | Ø 152 mm           |
| <b>drain "E"</b>                                  | BSP G1/8"       | BSP G1/2"       | BSP G1/2"         | BSP G1/2"      | BSP G1/2"      | BSP G1/2"          | BSP G1/2"          |
| <b>F</b>                                          | Ø 15 mm         | Ø 29 mm         | Ø 29 mm           | Ø 29 mm        | Ø 29 mm        | Ø 29 mm            | Ø 29 mm            |
| <b>L</b>                                          | 100 mm<br>±2    | 164 mm<br>±2    | 164 mm<br>±2      | 238 mm<br>±3   | 246 mm<br>±3   | 331 mm<br>±3       | 331 mm<br>±3       |
| <b>Contents</b>                                   | 0.03 l          | 0.24 l          | 0.24 l            | 0.4 l          | 0.41 l         | 0.99 l             | 0.99 l             |
| <b>Classification according to PED 2014/68/EU</b> | category I      | category III    | category III      | category III   | category III   | category III       | category III       |

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free dimension tolerances according to DIN 2768-m  
 \*\* depending on the sealing material  
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## Duplex series high-pressure filters

### HDF series PS 1100 bar



#### Data

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| <b>Connection geometry</b>              | 1/8" to 1 1/4" in BSP or NPT, special connection on request |
| <b>Ps</b>                               | 1,100 bar                                                   |
| <b>Ts</b>                               | -40° C to +80° C **                                         |
| <b>or</b>                               |                                                             |
| <b>Ps</b>                               | 1,000 bar                                                   |
| <b>Ts</b>                               | - 40° C to +200° C **                                       |
| <b>housing material</b>                 | 1.4410                                                      |
| <b>Housing seal</b>                     | All common elastomers                                       |
| <b>Media</b>                            | Liquid and gaseous media                                    |
| <b>Classification</b>                   | According to PED 2014/68/EU                                 |
| <b>Optional Contamination indicator</b> | Optical and electrical                                      |

| size                                              | HDF 1         | HDF 2          | HDF 3          | HDF 4            | HDF 5          | HDF 6        | HDF 7          |
|---------------------------------------------------|---------------|----------------|----------------|------------------|----------------|--------------|----------------|
| connection "G"                                    | BSP G1/8"     | BSP G1/4"      | BSP G3/8"      | BSP G1/2"        | BSP G3/4"      | BSP G1"      | BSP G1 1/4"    |
| Article                                           | 16161         | 16162          | 16163          | 16164            | 16165          | 16166        | 16167          |
| connection "G"                                    | 1/8" NPT      | 1/4" NPT       | 3/8" NPT       | 1/2" NPT         | 3/4" NPT       | 1" NPT       | 1 1/4" NPT     |
| Article                                           | 16171         | 16172          | 16173          | 16174            | 16175          | 16176        | 16177          |
| <b>A ±0.5</b>                                     | 10 mm         | 12 mm          | 14.5 mm        | 18 mm            | 20 mm          | 28 mm        | 33 mm          |
| <b>A* ±0.5</b>                                    | --            | 12 mm          | 19.5 mm        | 23 mm            | 20 mm          | 30 mm        | 35 mm          |
| <b>B ±0.5</b>                                     | 56 mm         | 95 mm          | 95 mm          | 114 mm           | 114 mm         | 139 mm       | 139 mm         |
| <b>C -1</b>                                       | Ø 60 mm       | Ø 100 mm       | Ø 100 mm       | Ø 120 mm         | Ø 120 mm       | Ø 150 mm     | Ø 150 mm       |
| <b>D ±0.5</b>                                     | Ø 40 mm       | Ø 75 mm        | Ø 75 mm        | Ø 89 mm          | Ø 89 mm        | Ø 117 mm     | Ø 117 mm       |
| <b>drain "E"</b>                                  | BSP G1/8"     | BSP G1/2"      | BSP G1/2"      | BSP G1/2"        | BSP G1/2"      | BSP G1/2"    | BSP G1/2"      |
| <b>F</b>                                          | Ø 15 mm       | Ø 29 mm        | Ø 29 mm        | Ø 29 mm          | Ø 29 mm        | Ø 29 mm      | Ø 29 mm        |
| <b>H</b>                                          | Ø 15 mm       | Ø 20 mm        | Ø 23 mm        | Ø 29 mm          | Ø 33 mm        | Ø 41 mm      | Ø 51 mm        |
| <b>L</b>                                          | 92 mm<br>±1.5 | 142.5 mm<br>±2 | 146.5 mm<br>±2 | 213.5 mm<br>±2.5 | 220 mm<br>±2.5 | 305 mm<br>±3 | 313.5 mm<br>±3 |
| <b>L*</b>                                         | --            | 142.5 mm<br>±2 | 151.5 mm<br>±2 | 218.5 mm<br>±2.5 | 225 mm<br>±2.5 | 308 mm<br>±3 | 316.5 mm<br>±3 |
| <b>Contents</b>                                   | 0.03 l        | 0.18 l         | 0.19 l         | 0.48 l           | 0.5 l          | 1.16 l       | 1.23 l         |
| <b>Classification according to PED 2014/68/EU</b> | category I    | category IV    | category IV    | category IV      | category IV    | category IV  | category IV    |

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\* with contamination indicator, free dimension tolerances according to DIN 2768-m  
 \*\* depending on the sealing material  
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Subject to technical and  
dimensional changes

## filter insert filter materials

### filter materials

**Wire mesh** is available in finenesses from 5µm to 2,000µm and is used as a surface filter  
very easy to clean and very easy to backwash.

**Glass fiber fleece** is available in finenesses from 3µm to 50µm and is a cost-effective alternative to the metal filter fabrics.

**Metal fiber fleece** is available for liquids in finenesses from 3µm to 100µm.

Due to the three-dimensional structure, it offers a very high dirt holding capacity (depth filtration) and filters gases even more finely. Separation rates are shown in the table below.

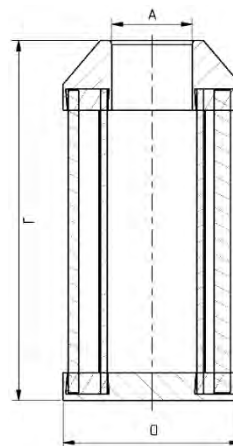
| 0.01µm  | 0.07µm | 0.1µm  | 0.2µm  | 0.3µm  | 0.4µm  |
|---------|--------|--------|--------|--------|--------|
| 100.00% | 97.66% | 96.68% | 96.81% | 98.75% | 99.48% |

| type                      | -20 / 100°C | -200 / 400°C | backwashable | Difference-pressure resistance | Increased filter area | Cleanable | material                   | Media-durability |
|---------------------------|-------------|--------------|--------------|--------------------------------|-----------------------|-----------|----------------------------|------------------|
| Pleated glued             | +           | -            | -            | 20 bar                         | +                     | +<br>-    | aluminum / stainless steel | -                |
| Cylindrically glued       | +           | -            | -            | 20 bar                         | -                     | +         | aluminum / stainless steel | -                |
| Pleated adhesive-free     | +           | +            | 3 bar        | 20 bar                         | +                     | -         | stainless steel V4A        | +                |
| Cylindrical adhesive-free | +           | +            | -            | 20 bar                         | -                     | +         | stainless steel V4A        | +                |

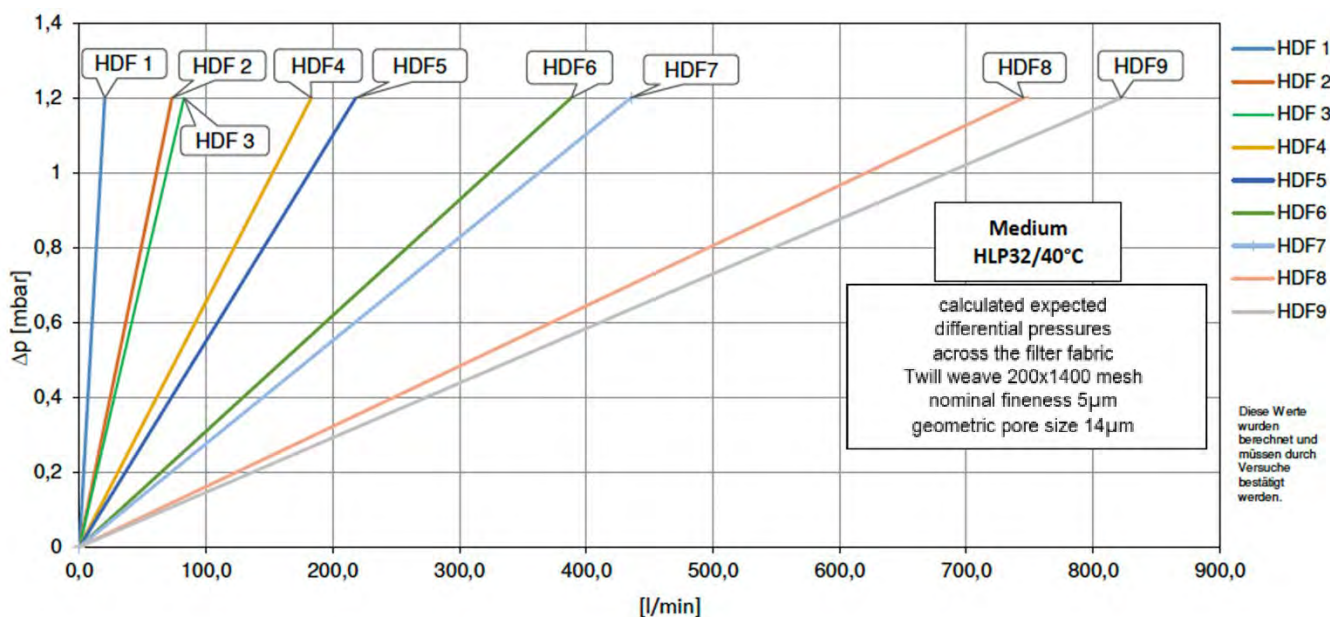
## filter inserts pleated glued

### Data

|                                            |                                                                                       |
|--------------------------------------------|---------------------------------------------------------------------------------------|
| <b>temperature range</b>                   | -20°C / +120°C                                                                        |
| <b>fineness</b>                            | 3 to 2000µm                                                                           |
| <b>turned parts</b>                        | anodized aluminum                                                                     |
| <b>support body</b>                        | stainless steel                                                                       |
| <b>material of the filter fabrics used</b> | Stainless steel wire mesh<br>Stainless steel metal fiber<br>fleece Glass fiber fleece |
| <b>potting compound</b>                    | epoxy resin                                                                           |
| <b>flow</b>                                | from outside to inside                                                                |



| For housing type    | HDF 1              | HDF 2               | HDF 3               | HDF 4               | HDF 5               | HDF 6                | HDF 7                | HDF 8                | HDF 9                |
|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| filter insert       | 44121              | 44122               | 44123               | 44124               | 44125               | 44126                | 44127                | 44128                | 44129                |
| filter area approx. | 68 cm <sup>2</sup> | 252 cm <sup>2</sup> | 285 cm <sup>2</sup> | 630 cm <sup>2</sup> | 752 cm <sup>2</sup> | 1339 cm <sup>2</sup> | 1503 cm <sup>2</sup> | 2573 cm <sup>2</sup> | 2840 cm <sup>2</sup> |
| A                   | Ø 9.6 mm           | Ø 14.5 mm           | Ø 14.5 mm           | Ø 26 mm             | Ø 26 mm             | Ø 34 mm              | Ø 34 mm              | Ø 58 mm              | Ø 58 mm              |
| D                   | Ø 22.0 mm          | Ø 40 mm             | Ø 40 mm             | Ø 52 mm             | Ø 52 mm             | Ø 61 mm              | Ø 61 mm              | Ø 90 mm              | Ø 90 mm              |
| L (approx.)         | 53.5 mm            | 85 mm               | 85 mm               | 140.5 mm            | 140.5 mm            | 205.5 mm             | 205.5 mm             | 274.5 mm             | 274.5 mm             |



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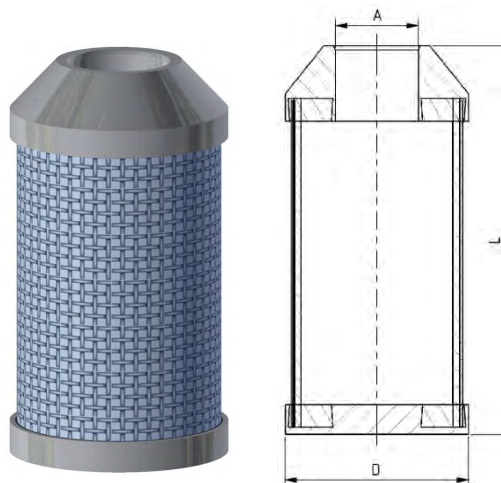
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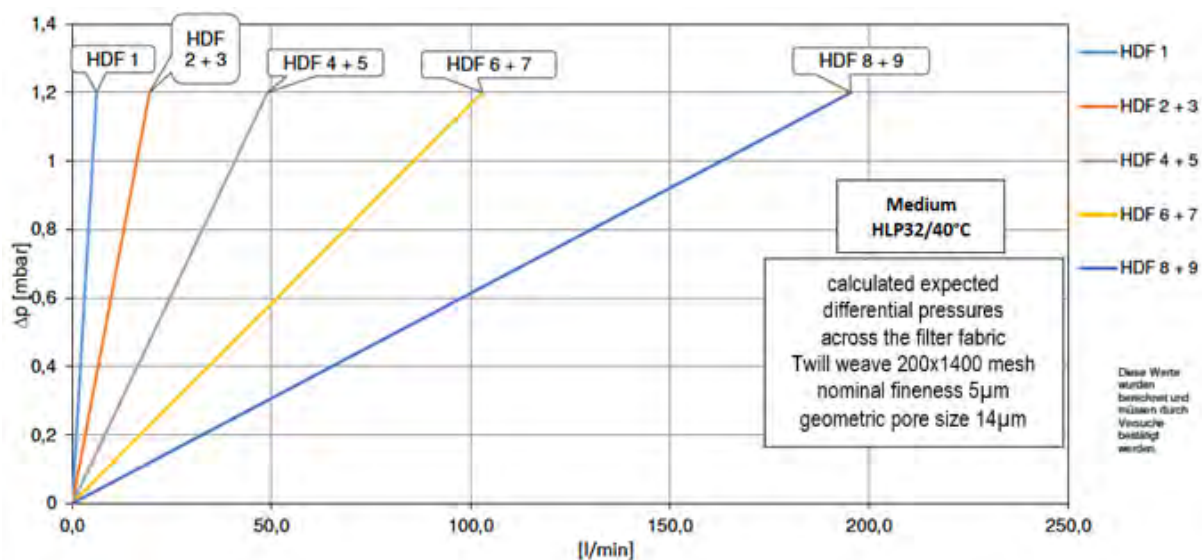
## Filter inserts glued cylindrically

### Data

|                                            |                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>temperature range</b>                   | -20°C / +120°C                                                                                 |
| <b>fineness</b>                            | 3 to 2000µm                                                                                    |
| <b>turned parts</b>                        | anodized aluminum                                                                              |
| <b>support body</b>                        | stainless steel                                                                                |
| <b>material of the filter fabrics used</b> | Stainless steel wire mesh<br>Stainless steel metal fiber<br>fleece Glass fiber fleece<br>Paper |
| <b>potting compound</b>                    | epoxy resin                                                                                    |
| <b>flow</b>                                | from outside to inside                                                                         |



| For housing type | HDF 1                         | HDF 2                         | HDF 3                         | HDF 4                          | HDF 5                          | HDF 6                          | HDF 7                          | HDF 8                          | HDF 9                          |
|------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| filter insert    | 44131                         | 44132                         | 44132                         | 44134                          | 44134                          | 44136                          | 44136                          | 44137                          | 44137                          |
| filter area      | approx.<br>21 cm <sup>2</sup> | approx.<br>67 cm <sup>2</sup> | approx.<br>67 cm <sup>2</sup> | approx.<br>169 cm <sup>2</sup> | approx.<br>169 cm <sup>2</sup> | approx.<br>355 cm <sup>2</sup> | approx.<br>355 cm <sup>2</sup> | approx.<br>674 cm <sup>2</sup> | approx.<br>674 cm <sup>2</sup> |
| A                | Ø 9.6 mm                      | Ø 14.5 mm                     | Ø 14.5 mm                     | Ø 26 mm                        | Ø 26 mm                        | Ø 34 mm                        | Ø 34 mm                        | Ø 58 mm                        | Ø 58 mm                        |
| D                | Ø 22.0 mm                     | Ø 40 mm                       | Ø 40 mm                       | Ø 52 mm                        | Ø 52 mm                        | Ø 61 mm                        | Ø 61 mm                        | Ø 90 mm                        | Ø 90 mm                        |
| L (approx.)      | 53.5 mm                       | 85 mm                         | 85 mm                         | 140.5 mm                       | 140.5 mm                       | 205.5 mm                       | 205.5 mm                       | 274.5 mm                       | 274.5 mm                       |



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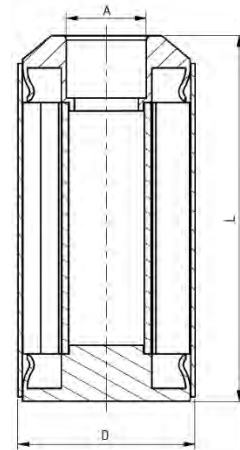
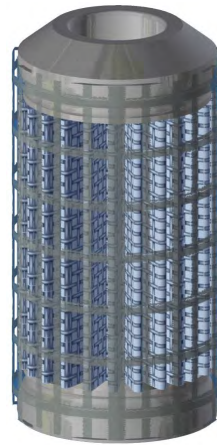
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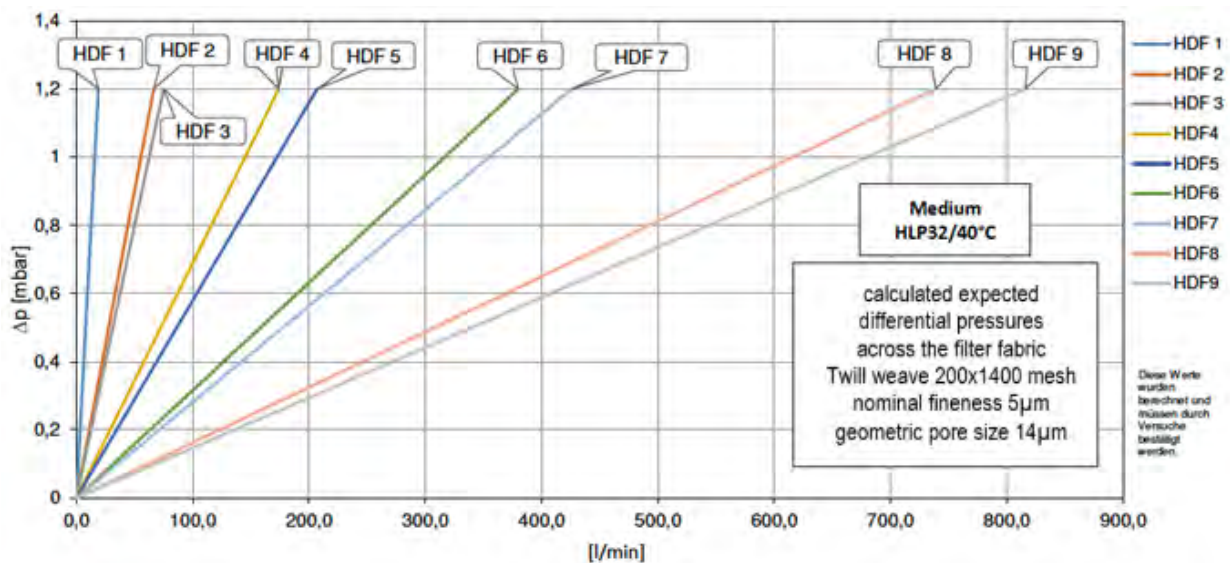
## filter inserts pleated adhesive-free

### Data

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| <b>temperature range</b>                   | -200°C / +400°C                                      |
| <b>fineness</b>                            | 3 to 1000µm                                          |
| <b>turned parts</b>                        | 1.4404 stainless steel                               |
| <b>support body</b>                        | 1.4404 stainless steel                               |
| <b>material of the filter fabrics used</b> | wire mesh 1.4404/1.4401<br>metal fiber fleece 1.4404 |
| <b>flow</b>                                | from outside to inside                               |



| For housing type<br>filter insert | HDF 1                       | HDF 2                          | HDF 3                          | HDF 4                          | HDF 5                          | HDF 6                           | HDF 7                           | HDF 8                           | HDF 9                           |
|-----------------------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                   | 44101                       | 44102                          | 44103                          | 44104                          | 44105                          | 44106                           | 44107                           | 44108                           | 44109                           |
| <b>filter area</b>                | approx.<br>65m <sup>2</sup> | approx.<br>229 cm <sup>2</sup> | approx.<br>259 cm <sup>2</sup> | approx.<br>598 cm <sup>2</sup> | approx.<br>714 cm <sup>2</sup> | approx.<br>1310 cm <sup>2</sup> | approx.<br>1470 cm <sup>2</sup> | approx.<br>2553 cm <sup>2</sup> | approx.<br>2817 cm <sup>2</sup> |
| <b>A</b>                          | Ø 9.6<br>mm                 | Ø 14.5<br>mm                   | Ø 14.5<br>mm                   | Ø 26 mm                        | Ø 26 mm                        | Ø 34 mm                         | Ø 34 mm                         | Ø 58 mm                         | Ø 58 mm                         |
| <b>D</b>                          | Ø 22.0<br>mm                | Ø 40 mm                        | Ø 40 mm                        | Ø 52 mm                        | Ø 52 mm                        | Ø 61 mm                         | Ø 61 mm                         | Ø 90 mm                         | Ø 90 mm                         |
| <b>L (approx.)</b>                | 53.5 mm                     | 85 mm                          | 85 mm                          | 140.5<br>mm                    | 140.5<br>mm                    | 205.5<br>mm                     | 205.5<br>mm                     | 274.5<br>mm                     | 274.5<br>mm                     |

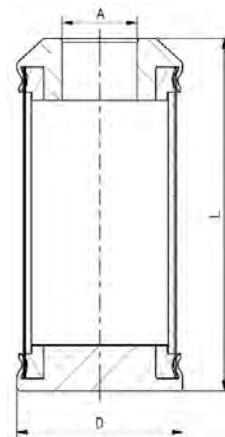


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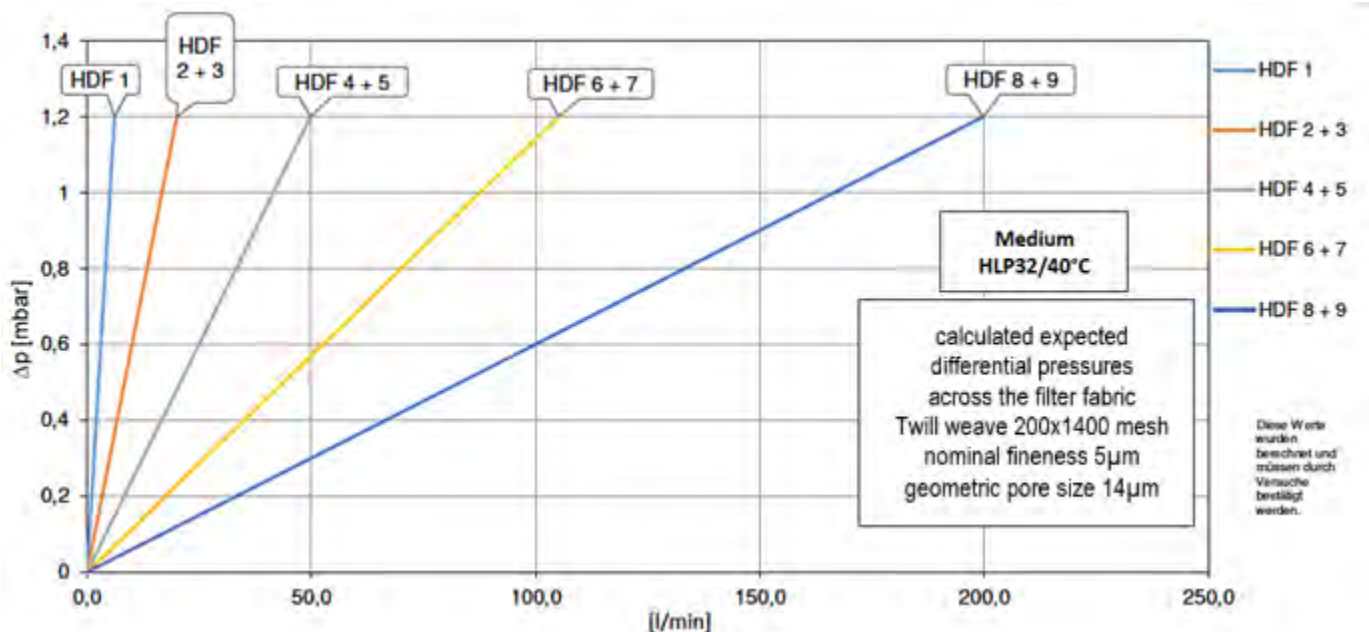
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## Filter inserts cylindrical adhesive-free

| Data                                |                                                      |
|-------------------------------------|------------------------------------------------------|
| temperature range                   | -200°C / +400°C                                      |
| fineness                            | 3 to 1000µm                                          |
| turned parts                        | 1.4404 stainless steel                               |
| support body                        | 1.4404 stainless steel                               |
| material of the filter fabrics used | wire mesh 1.4404/1.4401<br>metal fiber fleece 1.4404 |



| For housing type | HDF 1                    | HDF 2                      | HDF 3                      | HDF 4                       | HDF 5                       | HDF 6                       | HDF 7                       | HDF 8                       | HDF 9                       |
|------------------|--------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| filter insert    | 44111                    | 44112                      | 44112                      | 44114                       | 44114                       | 44116                       | 44116                       | 44118                       | 44118                       |
| filter area      | approx. 21m <sup>2</sup> | approx. 69 cm <sup>2</sup> | approx. 69 cm <sup>2</sup> | approx. 172 cm <sup>2</sup> | approx. 172 cm <sup>2</sup> | approx. 363 cm <sup>2</sup> | approx. 363 cm <sup>2</sup> | approx. 670 cm <sup>2</sup> | approx. 670 cm <sup>2</sup> |
| A                | Ø 9.6 mm                 | Ø 14.5 mm                  | Ø 14.5 mm                  | Ø 26 mm                     | Ø 26 mm                     | Ø 34 mm                     | Ø 34 mm                     | Ø 58 mm                     | Ø 58 mm                     |
| D                | Ø 22.0 mm                | Ø 40 mm                    | Ø 40 mm                    | Ø 52 mm                     | Ø 52 mm                     | Ø 61 mm                     | Ø 61 mm                     | Ø 90 mm                     | Ø 90 mm                     |
| L (approx.)      | 53.5 mm                  | 85 mm                      | 85 mm                      | 140.5 mm                    | 140.5 mm                    | 205.5 mm                    | 205.5 mm                    | 274.5 mm                    | 274.5 mm                    |



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