



### MAIN FEATURES & BENEFITS

- High quality stainless steel design
- Extremely low differential pressure
- Various connection types
- From 60 m<sup>3</sup>/h up to 19.200 m<sup>3</sup>/h

### INDUSTRIES



- Food



- Beverages



- Engineering



- Chemical



- Pharmaceutical



- Automotive

### PRODUCT DESCRIPTION

P-EG filter housings have been developed for the purification of compressed air and other technical gases in industrial ranges of application. Due to the optimized construction they offer low differential pressure at high flow rates. Numerous different sizes of housings with various connections make it possible to adopt the filter system to exactly the needed requirements.

This product series contains 18 different sizes of housings for operating volume flows of 60 to 19.200 Nm<sup>3</sup>/h related to 7 bar(g). The Donaldson plug connection guarantees that the elements remain safely fixed always. Due to the modular design different element types can be installed into the housing, resulting in a highly flexible filtration system

### APPLICATIONS

The P-EG housing is designed and developed for the following applications:

#### Filtration of air and gases

- Compressed Air
- Carbon Dioxide
- Technical Gases

#### Filtration of Steam

**MATERIAL DECLARATION**

All P-EG housings are designed in accordance with

- FDA CFR Code of Federal Regulations Title 21
- Pressure Equipment Directive 2014/68/EU

**PRODUCT SPECIFICATIONS**

|                                |                                                                |                                          |
|--------------------------------|----------------------------------------------------------------|------------------------------------------|
| Inner Surface Finish:          | 0006-0288                                                      | etched and passivated Ra <1.6*           |
|                                | 0432-1920                                                      | etched and passivated                    |
| Outer Surface Finish:          | 0006-0288                                                      | etched, passivated and polished Ra <1.6* |
|                                | 0432-1920                                                      | etched and passivated                    |
| Maximum Operating Pressure:    | 0432-1920                                                      | 16 bar                                   |
|                                | 0288                                                           | 12 bar                                   |
|                                | 0432-1920                                                      | 10 bar                                   |
| Maximum operating temperature: | -25 / +150 °C                                                  |                                          |
| Connection types:              | BSP thread connection (Standard for 0006-0288 single housings) |                                          |
|                                | DIN flange (standard starting at 0432 multiple housing)        |                                          |
|                                | Welded ends                                                    |                                          |

\*Ra-values don't apply to welding seams

## HOUSING TYPE P-EG 0006-0288 WITH THREAD CONNECTION

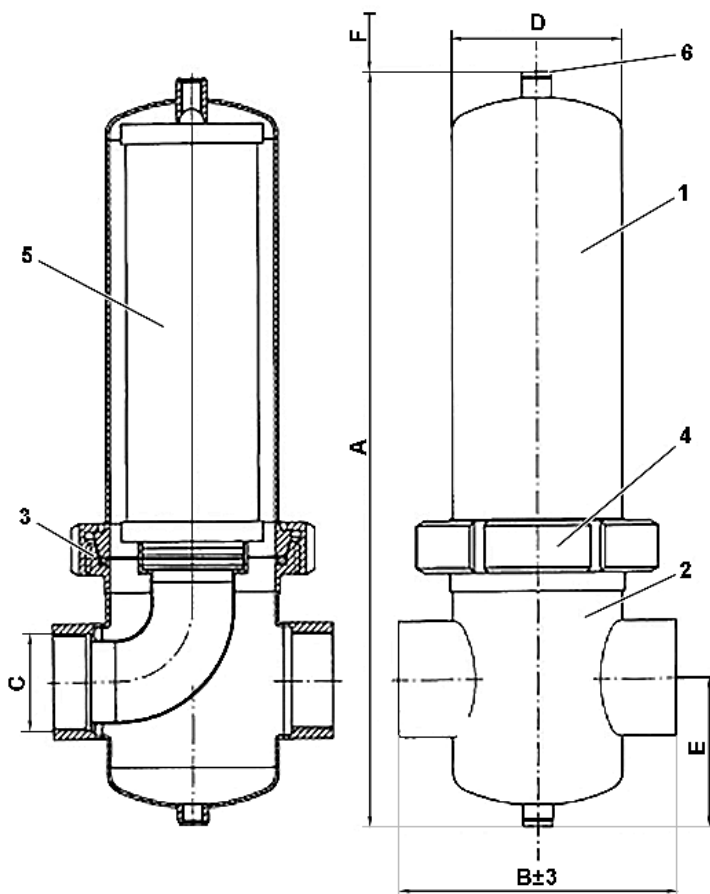
| Pos. | Piece | Description        |
|------|-------|--------------------|
| 6    | 2     | Plug ¼"            |
| 5    | 1     | Filter element     |
| 4    | 1     | Nut                |
| 3    | 1     | Housing gasket     |
| 2    | 1     | Lower housing bowl |
| 1    | 1     | upper housing bowl |

| Max. Operating Pressure                          |           |               |
|--------------------------------------------------|-----------|---------------|
| 0006-0192                                        | 16 bar    |               |
| 0288                                             | 12 bar    |               |
| Test Pressure                                    |           |               |
|                                                  | 1.4301    | 1.4404        |
| 0006-0192                                        | 29.3 bar  | 27.0 bar      |
| 0288                                             | 22.0 bar  | 20.2 bar      |
| Max. Operating Temperature                       |           |               |
| -25 / +150 °C                                    |           |               |
| Materials                                        |           |               |
| Material Housing                                 | 1.4301 or | 1.4404/1.4435 |
| Attaching Parts                                  | 1.4301    |               |
| Surface Finish                                   |           |               |
| inside Ra 1,6*; etched and passivated            |           |               |
| outside Ra 1,6*; etched, passivated and polished |           |               |

\*Ra-values don't apply to welding seams

## CLASSIFICATION ACC. TO 2014/68/EU

| Fluids Group 2 |              |  |
|----------------|--------------|--|
| P-EG 0006-0048 | Art.4, par.3 |  |
| P-EG 0072-0288 | Cat. I       |  |



| Size | Volume | Weight | A    | B    | C   | Ø D  | E    | F    | Element |
|------|--------|--------|------|------|-----|------|------|------|---------|
|      | [l]    | [kg]   | [mm] | [mm] |     | [mm] | [mm] | [mm] |         |
| 0006 | 0.55   | 1.7    | 215  | 108  | G¼  | 70   | 52   | 90   | 03/10   |
| 0009 | 0.65   | 1.9    | 243  | 108  | G ⅜ | 70   | 52   | 120  | 04/10   |
| 0012 | 0.65   | 1.9    | 243  | 108  | G½  | 70   | 52   | 120  | 04/20   |
| 0018 | 0.75   | 2.0    | 267  | 125  | G¾  | 70   | 52   | 150  | 05/20   |
| 0027 | 1.0    | 2.6    | 293  | 125  | G1  | 85   | 71   | 150  | 05/25   |
| 0036 | 1.25   | 3.0    | 345  | 140  | G1¼ | 85   | 71   | 200  | 07/25   |
| 0048 | 2.3    | 4.3    | 387  | 170  | G1½ | 104  | 94   | 200  | 07/30   |
| 0072 | 3.3    | 4.8    | 461  | 170  | G2  | 104  | 94   | 280  | 10/30   |
| 0108 | 4.3    | 5.3    | 588  | 170  | G2  | 104  | 94   | 450  | 15/30   |
| 0144 | 8.0    | 9.0    | 734  | 216  | G2½ | 129  | 103  | 580  | 20/30   |
| 0192 | 11.1   | 10.8   | 996  | 216  | G3  | 129  | 107  | 850  | 30/30   |
| 0288 | 16.5   | 16.2   | 1025 | 240  | G3  | 154  | 114  | 850  | 30/50   |

## HOUSING TYPE P-EG 0006-0288 WITH WELDED ENDS FOR ISO- PIPE

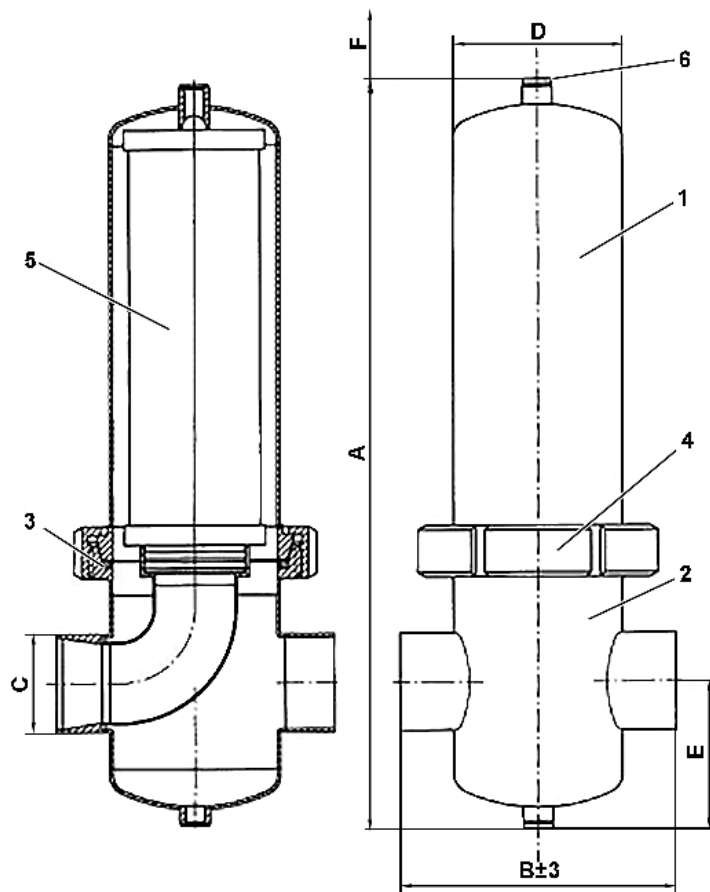
| Pos. | Piece | Description        |
|------|-------|--------------------|
| 6    | 2     | Plug ¼"            |
| 5    | 1     | Filter element     |
| 4    | 1     | Nut                |
| 3    | 1     | Housing gasket     |
| 2    | 1     | Lower housing bowl |
| 1    | 1     | Upper housing bowl |

| Max. Operating Pressure                          |           |               |
|--------------------------------------------------|-----------|---------------|
| 0006-0192                                        | 16 bar    |               |
| 0288                                             | 12 bar    |               |
| Test Pressure                                    |           |               |
|                                                  | 1.4301    | 1.4404        |
| 0006-0192                                        | 29.3 bar  | 27.0 bar      |
| 0288                                             | 22.0 bar  | 20.2 bar      |
| Max. Operating Temperature                       |           |               |
| -25 / +150 °C                                    |           |               |
| Materials                                        |           |               |
| Material Housing                                 | 1.4301 or | 1.4404/1.4435 |
| Attaching Parts                                  | 1.4301    |               |
| Surface Finish                                   |           |               |
| inside Ra 1,6*; etched and passivated            |           |               |
| outside Ra 1,6*; etched, passivated and polished |           |               |

\*Ra-values don't apply to welding seams

## CLASSIFICATION ACC. TO 2014/68/EU

| Fluids Group 2 |              |
|----------------|--------------|
| P-EG 0006-0048 | Art.4, par.3 |
| P-EG 0072-0288 | Cat. I       |



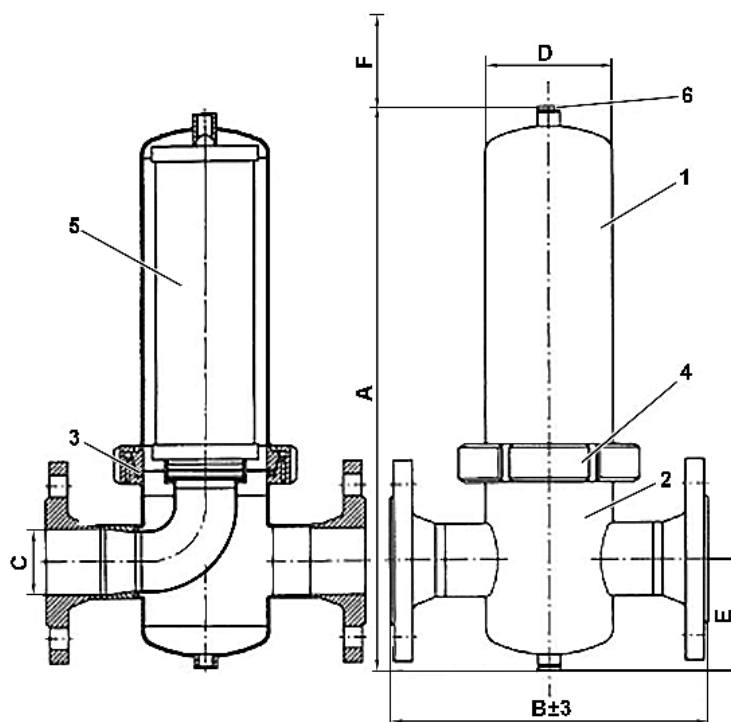
| Size | Volume | Weight | A    | B    | C         | Ø D  | E    | F    | Element |
|------|--------|--------|------|------|-----------|------|------|------|---------|
|      | [l]    | [kg]   | [mm] | [mm] |           | [mm] | [mm] | [mm] |         |
| 0006 | 0.55   | 1.7    | 215  | 108  | 17.2/DN10 | 70   | 52   | 90   | 03/10   |
| 0009 | 0.65   | 1.9    | 243  | 108  | 17.2/DN10 | 70   | 52   | 120  | 04/10   |
| 0012 | 0.65   | 1.9    | 243  | 108  | 21.3/DN15 | 70   | 52   | 120  | 04/20   |
| 0018 | 0.75   | 2.0    | 267  | 125  | 26.9/DN20 | 70   | 52   | 150  | 05/20   |
| 0027 | 1.0    | 2.6    | 293  | 125  | 33.7/DN25 | 85   | 71   | 150  | 05/25   |
| 0036 | 1.25   | 3.0    | 345  | 140  | 42.4/DN32 | 85   | 71   | 200  | 07/25   |
| 0048 | 2.3    | 4.3    | 387  | 170  | 48.3/DN40 | 104  | 94   | 200  | 07/30   |
| 0072 | 3.3    | 4.8    | 461  | 170  | 60.3/DN50 | 104  | 94   | 280  | 10/30   |
| 0108 | 4.3    | 5.3    | 588  | 170  | 60.3/DN50 | 104  | 94   | 450  | 15/30   |
| 0144 | 8.0    | 9.0    | 734  | 216  | 76.1/DN65 | 129  | 103  | 580  | 20/30   |
| 0192 | 11.1   | 10.8   | 996  | 216  | 88.9/DN80 | 129  | 107  | 850  | 30/30   |
| 0288 | 16.5   | 16.2   | 1025 | 240  | 88.9/DN80 | 154  | 114  | 850  | 30/50   |

## HOUSING TYPE P-EG 0006-0288 WITH FLANGE CONNECTION

| Pos. | Piece | Description        |
|------|-------|--------------------|
| 6    | 2     | Plug 1/4"          |
| 5    | 1     | Filter element     |
| 4    | 1     | Nut                |
| 3    | 1     | Housing gasket     |
| 2    | 1     | Lower housing bowl |
| 1    | 1     | Upper housing bowl |

| Max. Operating Pressure                          |           |               |
|--------------------------------------------------|-----------|---------------|
| 0006-0192                                        | 16 bar    |               |
| 0288                                             | 12 bar    |               |
| Test Pressure                                    |           |               |
|                                                  | 1.4301    | 1.4404        |
| 0006-0192                                        | 29.3 bar  | 27.0 bar      |
| 0288                                             | 22.0 bar  | 20.2 bar      |
| Max. Operating Temperature                       |           |               |
| -25 / +150°C                                     |           |               |
| Materials                                        |           |               |
| Material Housing                                 | 1.4301 or | 1.4404/1.4435 |
| Attaching Parts                                  | 1.4301    |               |
| Surface Finish                                   |           |               |
| inside Ra 1,6*; etched and passivated            |           |               |
| outside Ra 1,6*; etched, passivated and polished |           |               |

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## CLASSIFICATION ACC. TO 2014/68/EU

| Fluids Group 2 |              |
|----------------|--------------|
| P-EG 0006-0048 | Art.4, par.3 |
| P-EG 0072-0288 | Cat. I       |

| Size | Volume<br>[l] | Weight<br>[kg] | A<br>[mm] | B<br>[mm] | C    | Ø D<br>[mm] | E<br>[mm] | F<br>[mm] | Element |
|------|---------------|----------------|-----------|-----------|------|-------------|-----------|-----------|---------|
| 0006 | 0.55          | 1.7            | 215       | 108       | DN10 | 70          | 52        | 90        | 03/10   |
| 0009 | 0.65          | 1.9            | 243       | 108       | DN10 | 70          | 52        | 120       | 04/10   |
| 0012 | 0.65          | 1.9            | 243       | 108       | DN15 | 70          | 52        | 120       | 04/20   |
| 0018 | 0.75          | 2.0            | 267       | 125       | DN20 | 70          | 52        | 150       | 05/20   |
| 0027 | 1.0           | 2.6            | 293       | 125       | DN25 | 85          | 71        | 150       | 05/25   |
| 0036 | 1.25          | 3.0            | 345       | 140       | DN32 | 85          | 71        | 200       | 07/25   |
| 0048 | 2.3           | 4.3            | 387       | 170       | DN40 | 104         | 94        | 200       | 07/30   |
| 0072 | 3.3           | 4.8            | 461       | 170       | DN50 | 104         | 94        | 280       | 10/30   |
| 0108 | 4.3           | 5.3            | 588       | 170       | DN50 | 104         | 94        | 450       | 15/30   |
| 0144 | 8.0           | 9.0            | 734       | 216       | DN65 | 129         | 103       | 580       | 20/30   |
| 0192 | 11.1          | 10.8           | 996       | 216       | DN80 | 129         | 107       | 850       | 30/30   |
| 0288 | 16.5          | 16.2           | 1025      | 240       | DN80 | 154         | 114       | 850       | 30/50   |

## HOUSING TYPE P-EG 0432-1920 WITH FLANGE CONNECTION

| Pos. | Description        |
|------|--------------------|
| 13   | Spring             |
| 12   | Lifting eye bolt   |
| 11   | Plug               |
| 10   | Filter element     |
| 9    | Anchor bolt        |
| 8    | Bracket plate      |
| 7    | Bracket bolt       |
| 6    | Gasket             |
| 5    | Nut                |
| 4    | Washer             |
| 3    | Hexagon bolt       |
| 2    | Lower housing bowl |
| 1    | Upper housing bowl |

## Max. Operating Pressure

10 bar

## Test Pressure

18.3 bar

## Max. Operating Temperature

-25 / +150 °C

## Materials

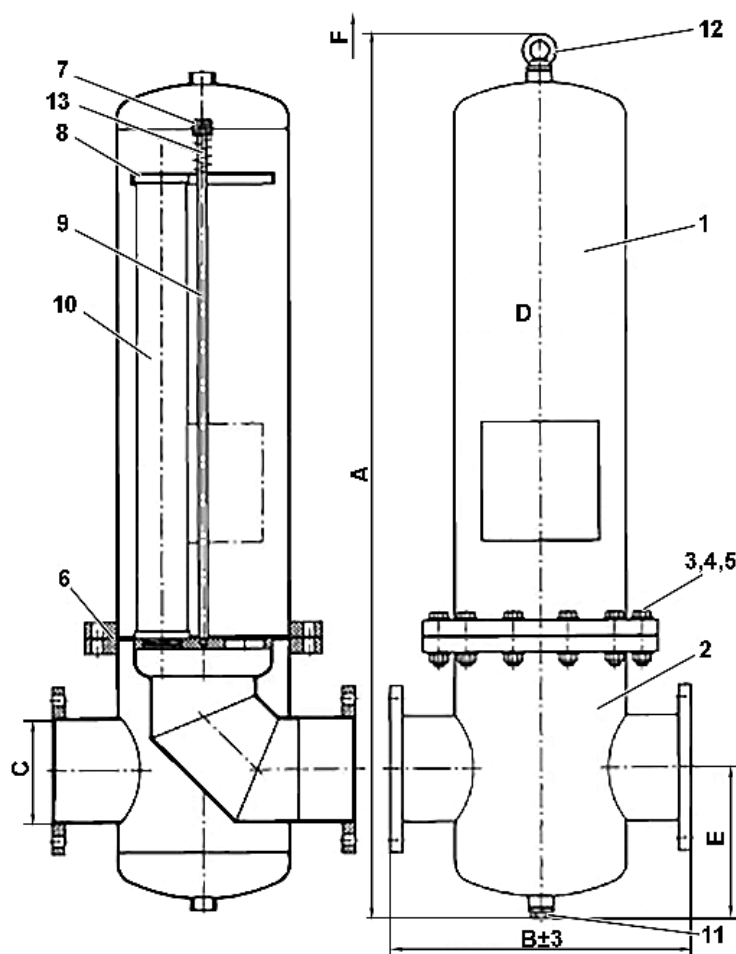
Material Housing 1.4301

Attaching Parts 1.4301

## Surface Finish

inside Ra 1,6\*; etched and passivated

outside Ra 1,6\*; etched, passivated and polished



## CLASSIFICATION ACC. TO 2014/68/EU

## Fluids Group 2

P-EG 0432-0768 Cat. II

P-EG 1152-1920 Cat. III

| Size | Volume<br>[l] | Weight<br>[kg] | A<br>[mm] | B<br>[mm] | C     | Ø D<br>[mm] | E<br>[mm] | F<br>[mm] | Element   |
|------|---------------|----------------|-----------|-----------|-------|-------------|-----------|-----------|-----------|
| 0432 | 36            | 43             | 1090      | 410       | DN100 | 219.1       | 200       | 580       | 3X 20/30  |
| 0576 | 54            | 44             | 1350      | 410       | DN100 | 219.1       | 200       | 850       | 3X 30/30  |
| 0768 | 77            | 70             | 1410      | 480       | DN150 | 273         | 240       | 850       | 4X 30/30  |
| 1152 | 110           | 80             | 1460      | 540       | DN150 | 323.9       | 250       | 850       | 6X 30/30  |
| 1536 | 190           | 135            | 1600      | 660       | DN200 | 406.4       | 300       | 850       | 8X 30/30  |
| 1920 | 190           | 135            | 1600      | 660       | DN200 | 406.4       | 300       | 850       | 10x 30/30 |


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