



Donaldson.  
FILTRATION SOLUTIONS

# Process Filtration From Pure to Sterile

## P-BE housings

### MAIN FEATURES & BENEFITS:

- High quality stainless steel design
- Extremely low differential pressure
- Various connection types
- Up to 2.010 m<sup>3</sup>/h



### INDUSTRIES:



- Dairy



- Pharmaceutical Industry



- Breweries



- Wineries



- Fermentation



- Biotech

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Donaldson<sup>®</sup>  
Ultrafilter

## PRODUCT DESCRIPTION

Filter housings for the aeration, de-aeration and venting of product series P-BE are used to ensure 100% sterility in the storage of pharmaceutical products, containers of DI water, food, chemicals, and/or the deaeration of fermenters. The user-friendly two-piece housing has a splash protection to prevent liquids coming in contact with the filter medium and damage it.

Numerous sizes of housings allow to adopt the filter exactly to the respective requirements. In this product series 12 different housing sizes are available for flow rates from 4.5 to 2.010 m<sup>3</sup>/h at 1 bar (2.6 to 1.180 cfm at 14.7 psi). Due to the Donaldson modular design different filter elements can be used in this housing according to the application.

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

### Venting applications

- Compressed Air
- Carbon Dioxide
- Nitrogen
- Ambient air

Besides the venting filter type (P)-BE and the membrane filter types (P)-PF-PP and (P)-PF-PT, sterile depth filters like the (P)-SRF or (P)-SRF N may be used with retention rates of 99.9999998 % down to virus size of 0.02 µm.

## DIRECTIVES

All P-BE housings are designed in accordance with

- FDA CFR Code of Federal Regulations Title 21
- Framework regulation 1935/2004/EC

FDA



## PRODUCT SPECIFICATIONS

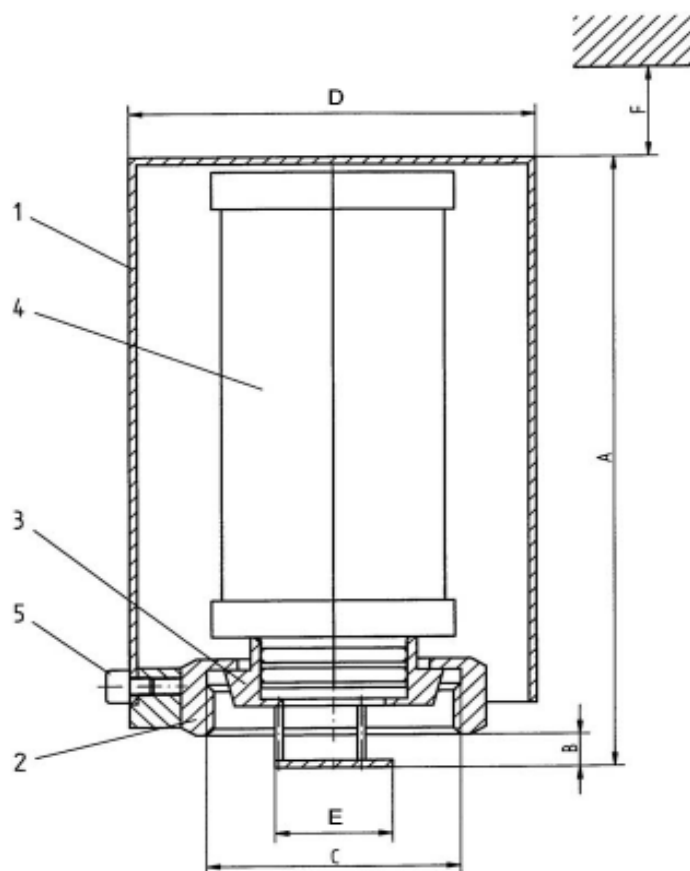
## Product Specifications

|                                       |                                                                                                                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inner Surface Finish:</b>          | <ul style="list-style-type: none"><li>• <math>R_a &lt; 1.6</math></li></ul>                                                                                                                      |
| <b>Outer Surface Finish:</b>          | <ul style="list-style-type: none"><li>• Polished surface <math>R_a &lt; 1.6</math></li></ul>                                                                                                     |
| <b>Maximum Operating Temperature:</b> | <ul style="list-style-type: none"><li>• 200 °C</li></ul>                                                                                                                                         |
| <b>Connection Types:</b>              | <ul style="list-style-type: none"><li>• Milkpipe DIN 11851 (standard at 0006–0192)</li><li>• DIN or ANSI flange (standard from 0432; optional up to 0192)</li><li>• Clamp (on request)</li></ul> |
| <b>Materials:</b>                     | <ul style="list-style-type: none"><li>• Stainless Steel 1.4301 (304) (optional 1.4404; 316L)</li></ul>                                                                                           |

## Vent filter P-BE 0006-0192 with milkpipe connection DIN 11851

| Pos. | Piece | Description        |
|------|-------|--------------------|
| 5    | 3     | socket head screw  |
| 4    | 1     | filter element     |
| 3    | 3     | lone socket        |
| 2    | 1     | lower housing bowl |
| 1    | 1     | upper housing bowl |

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| Surface Finish:             | inside $R_a < 1.6$<br>outside polished<br>$R_a < 1.6$ |
| Max. Operating Temperature: | +200 °C                                               |
| Material Housing:           | 1.4301 (304)                                          |
| Attaching Parts:            | 1.4301 (304)                                          |

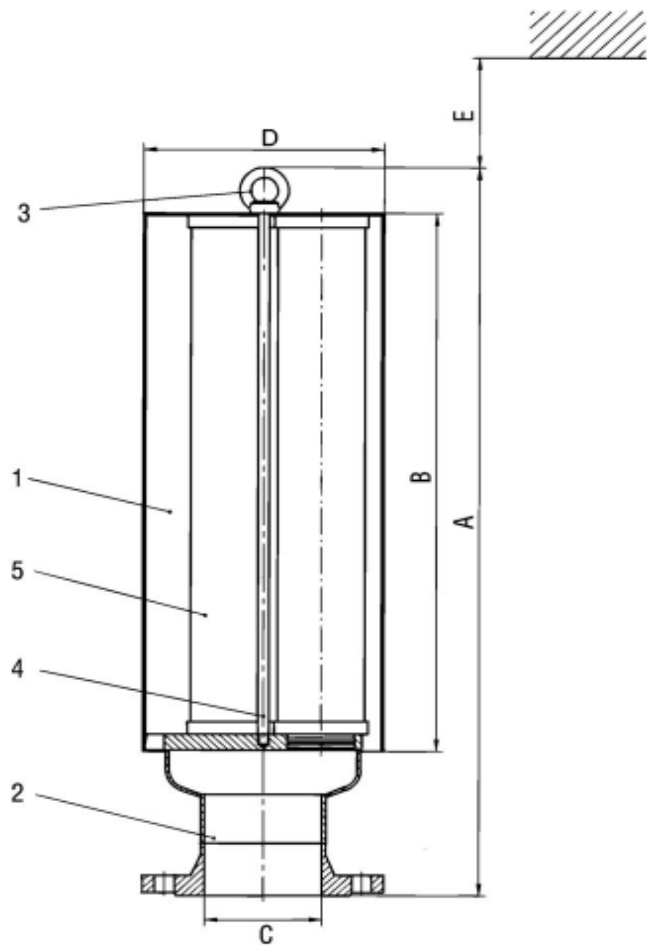


| Size | Weight (kg) | A mm | B mm | C                   | ØD mm     | E mm | F mm | Element |
|------|-------------|------|------|---------------------|-----------|------|------|---------|
| 0006 | 1.5         | 110  | 9    | DN 32/ Rd 58 x 1/6  | 85 x 2    | 24   | 100  | 03/10   |
| 0027 | 2.2         | 168  | 9    | DN 40/ Rd 65 x 1/6  | 104 x 2   | 30   | 155  | 05/25   |
| 0032 | 2.4         | 186  | 9    | DN 50/ Rd 78 x 1/6  | 114.3 x 2 | 42   | 155  | 05/30   |
| 0072 | 3.3         | 312  | 9    | DN 50/ Rd 78 x 1/6  | 114.3 x 2 | 42   | 280  | 10/30   |
| 0144 | 9.2         | 550  | 9    | DN 80/ Rd 110 x 1/4 | 154 x 2   | 70   | 580  | 20/30   |
| 0192 | 11.6        | 805  | 9    | DN 80/ Rd 110 x 1/4 | 154 x 2   | 70   | 850  | 30/30   |

## Vent filter P-BE 0432-1920 with flange connection

| Pos. | Description        |
|------|--------------------|
| 5    | filter element     |
| 4    | anchor bolt        |
| 3    | lifting eye screw  |
| 2    | lower housing bowl |
| 1    | upper housing bowl |

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| Surface Finish:             | inside $R_a < 1.6$<br>outside polished<br>$R_a < 1.6$ |
| Max. Operating Temperature: | +200°C                                                |
| Material Housing:           | 1.4301 (304)                                          |
| Attaching Parts:            | 1.4301 (304)                                          |



| Size | Weight (kg) | A mm | B mm | C      | ØD mm | E mm | Element   |
|------|-------------|------|------|--------|-------|------|-----------|
| 0432 | 14.5        | 670  | 530  | DN 100 | 219.1 | 580  | 3x 20/30  |
| 0576 | 17.5        | 925  | 780  | DN 100 | 219.1 | 850  | 3x 30/30  |
| 0768 | 30          | 950  | 780  | DN 150 | 273.0 | 850  | 4x 30/30  |
| 1152 | 30          | 950  | 780  | DN 150 | 323.9 | 850  | 6x 30/30  |
| 1536 | 43          | 960  | 780  | DN 200 | 406.4 | 850  | 8x 30/30  |
| 1920 | 43          | 960  | 780  | DN 200 | 406.4 | 850  | 10x 30/30 |

Technical alterations reserved 04/2009

- For information on integrity test equipment or integrity test services, please contact your Donaldson Sales Engineer and visit our website at [www.donaldson.com](http://www.donaldson.com)!

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# Nordic Filtration

At [www.nordicfiltration.com](http://www.nordicfiltration.com) you will find a wide selection of filtration products ready for you to order.

Nordic Filtration offers a wide selection of filtration products for water treatment. We have stock in Denmark from where we distribute all of our products to Scandinavia and the the rest of the world.

You can buy our products on local websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our website ([www.nordicfiltration.com](http://www.nordicfiltration.com)).

We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you.

