



# FILTER HOUSING – BF

## DESCRIPTION

BF welded filter housings have been developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and odour vapours from large compressed air <sup>(1)</sup> systems. To meet the required compressed air quality appropriate filter element must be installed into filter housing.

## APPLICATIONS <sup>(2)</sup>

- General industrial application
- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint



<sup>(1)</sup> For any other technical gas please contact us or your local dealer

<sup>(2)</sup> BF filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

## TECHNICAL SPECIFICATION

|                                      |               |             |
|--------------------------------------|---------------|-------------|
| Operating temperature <sup>(3)</sup> | -20 - 120 °C  | -4 - 248 °F |
| Operating pressure                   | 0 - 16 bar(g) | 0 - 232 psi |

<sup>(3)</sup> Actual operating temperature depends on sealing material and type of filter element.

## MATERIALS

|                                 |                                            |
|---------------------------------|--------------------------------------------|
| Housing material                | Carbon steel                               |
| Fittings, Screws                | Brass, Brass-zinc plated, Steel            |
| Sealing                         | Aramid fibre with a nitrile rubber binder  |
| Corrosion protection (internal) | Epoxy coat                                 |
| Outside protection              | Powder paint coated (Epoxy-polyester base) |
| Lubricant                       | Shell cassida grease RLS 2                 |



## SIZES

| FILTER HOUSING | CONN. SIZE [DN] | FILTER ELEMENT | FLOW CAPACITY        |        | DIMENSIONS [mm] |      |      |     |     | VOLUME [l] | WEIGHT [kg] |
|----------------|-----------------|----------------|----------------------|--------|-----------------|------|------|-----|-----|------------|-------------|
|                |                 |                | [Nm <sup>3</sup> /h] | [scfm] | A               | B    | C    | D   | E   |            |             |
| BF 0240        | 80              | 1 x 76090      | 1680                 | 989    | 1145            | 450  | 1640 | 219 | 157 | 38         | 71          |
| BF 0300        | 100             | 2 x 76090      | 3150                 | 1853   | 1330            | 560  | 1780 | 324 | 208 | 100        | 110         |
| BF 0450        | 125             | 3 x 76090      | 4700                 | 2765   | 1330            | 560  | 1780 | 324 | 206 | 100        | 115         |
| BF 0600        | 150             | 4 x 76090      | 6300                 | 3706   | 1360            | 620  | 1780 | 368 | 241 | 125        | 154         |
| BF 0900        | 150             | 6 x 76090      | 9400                 | 5530   | 1420            | 680  | 1810 | 405 | 261 | 168        | 195         |
| BF1200         | 200             | 8 x 76090      | 12550                | 7382   | 1850            | 792  | 525  | 508 | -   | 283        | 340         |
| BF 1500        | 200             | 10 x 76090     | 15700                | 9235   | 1890            | 918  | 545  | 610 | -   | 411        | 497         |
| BF 1800        | 250             | 12 x 76090     | 18850                | 11088  | 2042            | 955  | 568  | 610 | -   | 461        | 547         |
| BF 2500        | 250             | 16 x 76090     | 25100                | 14765  | 2030            | 1042 | 685  | 711 | -   | 614        | 643         |
| BF 3000        | 300             | 20 x 76090     | 31400                | 18481  | 2130            | 1085 | 680  | 711 | -   | 663        | 656         |

Flow capacity at 7 bar(g), 20°C

Standard is connection flange EN 1092-1/01 PN16, flange connection ANSI B16.5 is on request.

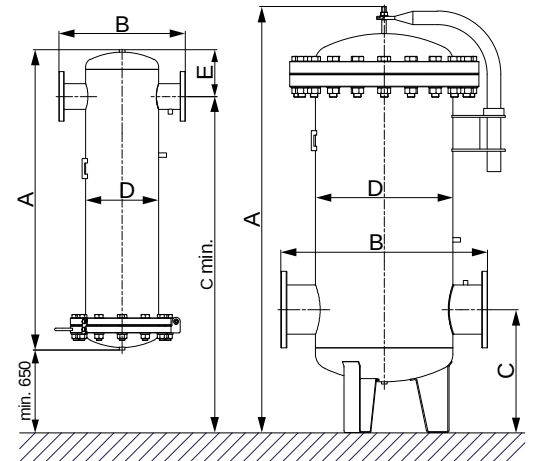
## PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

|                   |                       |
|-------------------|-----------------------|
| BF 0240           | Category 2, Module H  |
| BF 0300 - BF 0900 | Category 3, Module H1 |
| BF 1200 - BF 3000 | Category 4, Module H1 |

## PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)<sup>(4)</sup>

|                   |                       |
|-------------------|-----------------------|
| BF 0240           | Category 3, Module H  |
| BF 0300 - BF 3000 | Category 4, Module H1 |

<sup>(4)</sup>Fluid group must be specified in the order, if not standard fluid group 2 is selected



## CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>

### OPERATING PRESSURE

|                 |      |     |      |      |      |     |      |      |      |      |      |      |      |      |      |
|-----------------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| [bar]           | 2    | 3   | 4    | 5    | 6    | 7   | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
| [psi]           | 29   | 44  | 58   | 72   | 87   | 100 | 115  | 130  | 145  | 160  | 174  | 189  | 203  | 218  | 232  |
| C <sub>OP</sub> | 0,38 | 0,5 | 0,63 | 0,75 | 0,88 | 1   | 1,13 | 1,25 | 1,38 | 1,50 | 1,63 | 1,75 | 1,88 | 2,00 | 2,13 |

## MAINTENANCE

Replace filter element at least every 12 months or follow the instructions for specific filter element. Once per year make a visual check of filter housing and make sure there is no visual damage.