



**16 bar**  
operating pressure

**1.680 to 31.400 Nm<sup>3</sup>/h**  
volume flow rate

**DN80 to DN300**  
connections

**1,5 to 65 °C**  
operating temperature range

**RAL 5012**  
standard colour

## DESCRIPTION

BF filters are designed for protection of the downstream compressed air system and equipment against defects and other failures. Due to their robust welded carbon steel construction, are used for installation in heavy industrial applications with high air flows.

They ensure high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems up to 16 bar. For any other technical gas please contact producer or your local distributor.

Required compressed air quality according to standard ISO 8571-1 can be achieved with 6 different grades of filter elements (B, P, R, M, S and A).

Optional external condensate drains should be used for efficient condensate draining from filter housing.

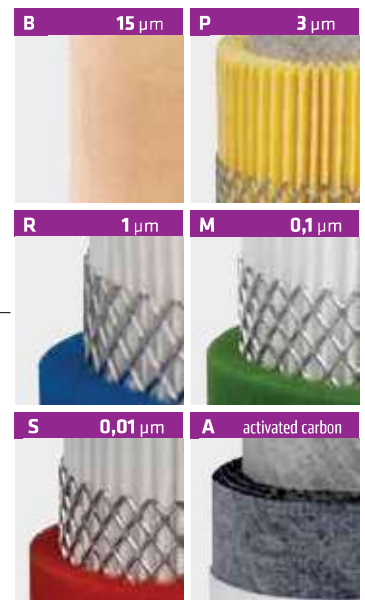
Fluid group 1 on request.

## APPLICATIONS

- General industrial applications
- Automotive
- Electronics
- Food and beverage
- Chemical
- Petrochemical
- Plastics
- Paint

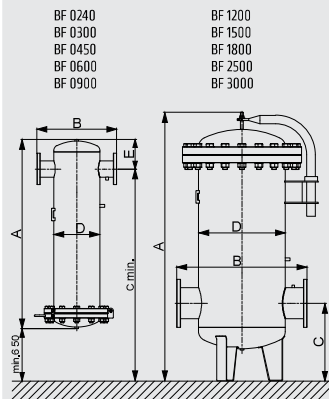
# BF SERIES

## WELDED CARBON STEEL COMPRESSED AIR FILTERS





| TECHNICAL DATA      |           |                    |                              |        |                 |      |      |     |     |      | FILTER ELEMENTS                                       |                  |                           |                           |                       |                    |                        |
|---------------------|-----------|--------------------|------------------------------|--------|-----------------|------|------|-----|-----|------|---|------------------|---------------------------|---------------------------|-----------------------|--------------------|------------------------|
| Filter housing size | Pipe size | Max.oper. pressure | Flow rate at 7 bar(g), 20 °C |        | Dimensions [mm] |      |      |     |     | Mass | B sintered 15 µm                                      | P prefilter 3 µm | R prefilter 1 µm          | M microfilter 0,1 µm      | S microfilter 0,01 µm | A activated carbon |                        |
|                     | DN        |                    | bar/psi                      | Nm³/h  | scfm            | A    | B    | C   | D   |      |   |                  |                           |                           |                       |                    | E                      |
| BF 0240             | 80        | 16/232             | 1.680                        | 989    | 1145            | 450  | 1640 | 219 | 157 | 71   | 1×76090 B15   | 1×76090 P        | 1×76090 R                 | 1×76090 M                 | 1×76090 S             | 1×76090 A          |                        |
| BF 0300             | 100       | 16/232             | 3.150                        | 1.853  | 1330            | 560  | 1780 | 324 | 208 | 110  | 2×76090 B15   | 2×76090 P        | 2×76090 R                 | 2×76090 M                 | 2×76090 S             | 2×76090 A          |                        |
| BF 0450             | 125       | 16/232             | 4.700                        | 2.765  | 1330            | 560  | 1780 | 324 | 206 | 115  | 3×76090 B15   | 3×76090 P        | 3×76090 R                 | 3×76090 M                 | 3×76090 S             | 3×76090 A          |                        |
| BF 0600             | 150       | 16/232             | 6.300                        | 3.706  | 1360            | 620  | 1780 | 368 | 241 | 154  | 4×76090 B15   | 4×76090 P        | 4×76090 R                 | 4×76090 M                 | 4×76090 S             | 4×76090 A          |                        |
| BF 0900             | 150       | 16/232             | 9.400                        | 5.530  | 1420            | 680  | 1810 | 405 | 261 | 195  | 6×76090 B15   | 6×76090 P        | 6×76090 R                 | 6×76090 M                 | 6×76090 S             | 6×76090 A          |                        |
| BF 1200             | 200       | 16/232             | 12.550                       | 7.382  | 1850            | 792  | 525  | 508 | -   | 340  | 8×76090 B15   | 8×76090 P        | 8×76090 R                 | 8×76090 M                 | 8×76090 S             | 8×76090 A          |                        |
| BF 1500             | 200       | 16/232             | 15.700                       | 9.235  | 1890            | 918  | 545  | 610 | -   | 497  | 10×76090 B15  | 10×76090 P       | 10×76090 R                | 10×76090 M                | 10×76090 S            | 10×76090 A         |                        |
| BF 1800             | 250       | 16/232             | 18.850                       | 11.088 | 1920            | 955  | 555  | 610 | -   | 367  | 12×76090 B15  | 12×76090 P       | 12×76090 R                | 12×76090 M                | 12×76090 S            | 12×76090 A         |                        |
| BF 2500             | 250       | 16/232             | 25.100                       | 14.765 | 2030            | 1042 | 685  | 711 | -   | 643  | 16×76090 B15  | 16×76090 P       | 16×76090 R                | 16×76090 M                | 16×76090 S            | 16×76090 A         |                        |
| BF 3000             | 300       | 16/232             | 31.400                       | 18.481 | 2130            | 1085 | 680  | 711 | -   | 656  | 20×76090 B15  | 20×76090 P       | 20×76090 R                | 20×76090 M                | 20×76090 S            | 20×76090 A         |                        |
|                     |           |                    |                              |        |                 |      |      |     |     |      | quality class - solids (ISO 8573-1)                   | 7                | 6                         | 3                         | 2                     | 1                  | 1 <sup>3)</sup>        |
|                     |           |                    |                              |        |                 |      |      |     |     |      | residual oil content [mg/m³]                          | -                | -                         | -                         | <0,1                  | <0,01              | <0,005                 |
|                     |           |                    |                              |        |                 |      |      |     |     |      | quality class - oils (ISO 8573-1)                     | -                | -                         | -                         | 2                     | 1                  | 1                      |
|                     |           |                    |                              |        |                 |      |      |     |     |      | pressure drop - new element [mbar / psi]              | 20 / 0,290       | 10 / 0,145                | 20 / 0,290                | 50 / 0,725            | 80 / 1,160         | 60 / 0,870             |
|                     |           |                    |                              |        |                 |      |      |     |     |      | change filter cartridge at pressure drop [mbar / psi] | <sup>1)</sup>    | 350 / 5,07                | 350 / 5,07                | 350 / 5,07            | 350 / 5,07         | 6 months <sup>2)</sup> |
|                     |           |                    |                              |        |                 |      |      |     |     |      | filter media  | sintered brass   | acrylic fibres, cellulose | borosilicate micro fibres |                       |                    | activated carbon       |
|                     |           |                    |                              |        |                 |      |      |     |     |      | pleated version                                       | -                | ✓                         | ✓                         | ✓                     | ✓                  | -                      |
|                     |           |                    |                              |        |                 |      |      |     |     |      | wrapped version                                       | -                | -                         | -                         | -                     | -                  | ✓                      |
|                     |           |                    |                              |        |                 |      |      |     |     |      | sintered version                                      | ✓                | -                         | -                         | -                     | -                  | -                      |
|                     |           |                    |                              |        |                 |      |      |     |     |      | min. operating temperature (°C / °F)                  | 1,5 / 35         | 1,5 / 35                  | 1,5 / 35                  | 1,5 / 35              | 1,5 / 35           | 1,5 / 35               |
|                     |           |                    |                              |        |                 |      |      |     |     |      | max. operating temperature (°C / °F)                  | 65 / 149         | 65 / 149                  | 65 / 149                  | 65 / 149              | 65 / 149           | 45 / 113               |



| CORRECTION FACTORS       |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |  |
|--------------------------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|--|
| Operating pressure [bar] | 2    | 3    | 4    | 5    | 6    | 7   | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |  |
| Operating pressure [psi] | 29   | 44   | 58   | 72   | 87   | 100 | 115  | 130  | 145  | 160  | 174  | 189  | 203  | 218  | 232  |  |
| Correction factor        | 0,38 | 0,50 | 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 |  |

<sup>1)</sup> "B" filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depends of application. If necessary replace filter element with new one.  
<sup>2)</sup> Filter elements "A" must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.  
<sup>3)</sup> Valid if "S" filter cartridge is installed upstream.  
 Models BF 0240 to BF 0900 can be produced with optional integrated support legs, which should be noticed at order.



**25 bar**  
operating pressure

**1.680 to 31.400 Nm<sup>3</sup>/h**  
volume flow rate

**DN80 to DN300**  
connections

**1,5 to 65 °C**  
operating temperature range

**RAL 5012**  
standard colour

## DESCRIPTION

BF HP filters are designed for protection of the downstream compressed air system and equipment against defects and other failures in high pressure applications. Due to their robust welded carbon steel construction, are used for installation in heavy industrial applications with high air flows.

They ensure high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems up to 25 bar. For any other technical gas please contact producer or your local distributor.

Required compressed air quality according to standard ISO 8571-1 can be achieved with 6 different grades of filter elements (B, P, R, M, S and A).

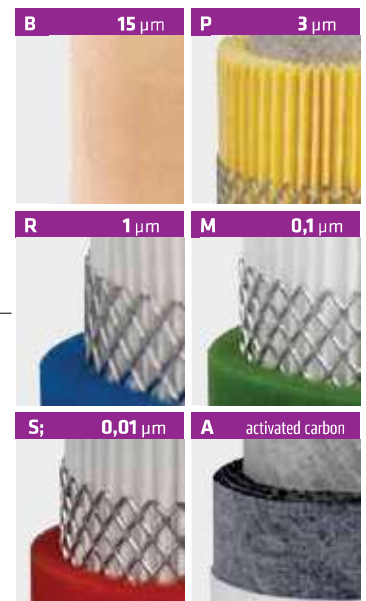
Optional external condensate drains should be used for efficient condensate draining from filter housing. Fluid group 1 on request.

## APPLICATIONS

- General industrial applications
- Automotive
- Electronics
- Food and beverage
- Chemical
- Petrochemical
- Plastics
- Paint

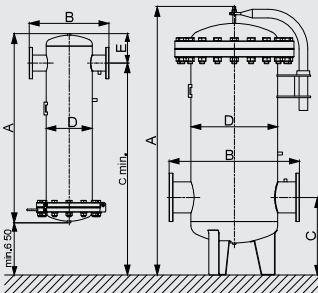
# BF HP SERIES

## HIGH PRESSURE WELDED CARBON STEEL COMPRESSED AIR FILTERS





| TECHNICAL DATA   |           |  |                              |   |                 |      |      |     |     | FILTER ELEMENTS |                           |                           |                |                    |                        |
|--|-----------|--|------------------------------|---|-----------------|------|------|-----|-----|-----------------|---------------------------|---------------------------|----------------|--------------------|------------------------|
| Filter housing size  | Pipe size | Max.oper. pressure   | Flow rate at 7 bar(g), 20 °C |   | Dimensions [mm] |      |      |     |     | B               | P                         | R                         | M              | S                  | A                      |
|  | DN        |  | bar/psi                      | Nm <sup>3</sup> /h                                    | scfm            | A    | B    | C   | D   | E               | sintered 15 µm            | prefilter 3 µm            | prefilter 1 µm | microfilter 0,1 µm | microfilter 0,01 µm    |
| <b>BF HP 0240</b>  | 80        | 25/362   | 1.680                        | 989   | 1170            | 450  | 1660 | 219 | 166 | 1×76090 B15     | 1×76090 P                 | 1×76090 R                 | 1×76090 M      | 1×76090 S          | 1×76090 A              |
| <b>BF HP 0300</b>  | 100       | 25/362   | 3.150                        | 1.853   | 1330            | 560  | 1780 | 324 | 208 | 2×76090 B15     | 2×76090 P                 | 2×76090 R                 | 2×76090 M      | 2×76090 S          | 2×76090 A              |
| <b>BF HP 0450</b>  | 125       | 25/362   | 4.700                        | 2.765   | 1330            | 560  | 1780 | 324 | 206 | 3×76090 B15     | 3×76090 P                 | 3×76090 R                 | 3×76090 M      | 3×76090 S          | 3×76090 A              |
| <b>BF HP 0600</b>  | 150       | 25/362   | 6.300                        | 3.706   | 1360            | 620  | 1780 | 368 | 241 | 4×76090 B15     | 4×76090 P                 | 4×76090 R                 | 4×76090 M      | 4×76090 S          | 4×76090 A              |
| <b>BF HP 0900</b>  | 150       | 25/362   | 9.400                        | 5.530   | 1420            | 680  | 1810 | 405 | 261 | 6×76090 B15     | 6×76090 P                 | 6×76090 R                 | 6×76090 M      | 6×76090 S          | 6×76090 A              |
| <b>BF HP 1200</b>  | 200       | 25/362   | 12.550                       | 7.382   | 1850            | 792  | 525  | 508 | -   | 8×76090 B15     | 8×76090 P                 | 8×76090 R                 | 8×76090 M      | 8×76090 S          | 8×76090 A              |
| <b>BF HP 1500</b>  | 200       | 25/362   | 15.700                       | 9.235   | 1890            | 918  | 545  | 610 | -   | 10×76090 B15    | 10×76090 P                | 10×76090 R                | 10×76090 M     | 10×76090 S         | 10×76090 A             |
| <b>BF HP 1800</b>  | 250       | 25/362   | 18.850                       | 11.088  | 1920            | 655  | 555  | 610 | -   | 12×76090 B15    | 12×76090 P                | 12×76090 R                | 12×76090 M     | 12×76090 S         | 12×76090 A             |
| <b>BF HP 2500</b>  | 250       | 25/362   | 25.100                       | 14.765  | 2030            | 1042 | 685  | 711 | -   | 16×76090 B15    | 16×76090 P                | 16×76090 R                | 16×76090 M     | 16×76090 S         | 16×76090 A             |
| <b>BF HP 3000</b>  | 300       | 25/362   | 31.400                       | 18.481  | 2130            | 1085 | 680  | 711 | -   | 20×76090 B15    | 20×76090 P                | 20×76090 R                | 20×76090 M     | 20×76090 S         | 20×76090 A             |
| BF HP 0240<br>BF HP 0300<br>BF HP 0450<br>BF HP 0600<br>BF HP 0900 |           | BF HP 1200<br>BF HP 1500<br>BF HP 1800<br>BF HP 2500<br>BF HP 3000 |                              | quality class - solids (ISO 8573-1)                   |                 |      |      |     |     | 7               | 6                         | 3                         | 2              | 1                  | 1 <sup>3)</sup>        |
|  |           |  |                              | residual oil content [mg/m <sup>3</sup> ]             |                 |      |      |     |     | -               | -                         | -                         | <0,1           | <0,01              | <0,005                 |
|  |           |  |                              | quality class - oils (ISO 8573-1)                     |                 |      |      |     |     | -               | -                         | -                         | 2              | 1                  | 1                      |
|  |           |  |                              | pressure drop - new element [mbar / psi]              |                 |      |      |     |     | 20 / 0,290      | 10 / 0,145                | 20 / 0,290                | 50 / 0,725     | 80 / 1,160         | 60 / 0,870             |
|  |           |  |                              | change filter cartridge at pressure drop [mbar / psi] |                 |      |      |     |     | <sup>1)</sup>   | 350 / 5,07                | 350 / 5,07                | 350 / 5,07     | 350 / 5,07         | 6 months <sup>2)</sup> |
|  |           |  |                              | filter media  |                 |      |      |     |     | sintered brass  | acrylic fibres, cellulose | borosilicate micro fibres |                |                    | activated carbon       |
|  |           |  |                              | pleated version                                       |                 |      |      |     |     | -               | ✓                         | ✓                         | ✓              | ✓                  | -                      |
|  |           |  |                              | wrapped version                                       |                 |      |      |     |     | -               | -                         | -                         | -              | -                  | ✓                      |
|  |           |  |                              | sintered version                                      |                 |      |      |     |     | ✓               | -                         | -                         | -              | -                  | -                      |
|  |           |  |                              | min. operating temperature (°C / °F)                  |                 |      |      |     |     | 1,5 / 35        | 1,5 / 35                  | 1,5 / 35                  | 1,5 / 35       | 1,5 / 35           | 1,5 / 35               |
|  |           |  |                              | max. operating temperature (°C / °F)                  |                 |      |      |     |     | 65 / 149        | 65 / 149                  | 65 / 149                  | 65 / 149       | 65 / 149           | 45 / 113               |



| CORRECTION FACTORS       |      |     |      |      |      |     |      |      |      |      |      |      |      |      |      |      |
|--------------------------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|
| Operating pressure [bar] | 2    | 3   | 4    | 5    | 6    | 7   | 8    | 9    | 10   | 12   | 14   | 15   | 18   | 20   | 22   | 25   |
| Operating pressure [psi] | 29   | 44  | 58   | 72   | 87   | 100 | 115  | 130  | 145  | 174  | 203  | 218  | 261  | 290  | 319  | 363  |
| Correction factor        | 0,38 | 0,5 | 0,63 | 0,75 | 0,88 | 1   | 1,13 | 1,25 | 1,38 | 1,63 | 1,88 | 2,00 | 2,37 | 2,63 | 2,89 | 3,25 |

<sup>1)</sup> "B" filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depends of application. If necessary replace filter element with new one.

<sup>2)</sup> Filter elements "A" must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.

<sup>3)</sup> Valid if "S" filter cartridge is installed upstream.

Models BF HP 0240 to BF HP 0900 can be produced with optional integrated support legs, which should be noticed at order.