Filtering and/or water pressure regulation units, characterized by the use of materials certified to specific standards on products for use in contact with foodstuff or drinking water.
Declarations of conformity and release test reports are available on request for those who need them to certify our product incorporated in their own systems.
The white colour surface finish of the body was chosen to enhance the highly hygienic properties of the product. If the pressure regulator works with incompressible fluids (water) and there is a valve leak, the downstream pressure could rise up to reach the inlet pressure and then it re-stabilizes with water consumption.
If necessary, consider the possibility of installing a safety valve that relieves any excess pressure.

## TECHNICAL DATA

Threaded port
Max. inlet pressure

|  | BIT F 1/8" | BIT F 1/4" |
| :---: | :---: | :---: |
|  | 1/8" | $1 / 4^{\prime \prime}$ |
| MPa | 1.3 |  |
| bar | 13 |  |
| psi | 188 |  |
| ${ }^{\circ} \mathrm{C}$ | 50 |  |
| ${ }^{\circ} \mathrm{F}$ | 122 |  |

Elements
Mounting

Fluid


## bït series f filter for water

Water filter characterized by the use of materials certified to specific standards on products for use in contact with foodstuff or drinking water.
Declarations of conformity and release test reports are available on request for those who need them to certify our product incorporated in their own systems.
The white colour surface finish of the body was chosen to enhance the highly hygienic properties of the product.
The transparent bowl was designed to make it possible to check the state of the filter cartridge.
Unlike compressed air filters, the bowl has no drain holes.
The cartridge filtration degree is $20 \mu \mathrm{~m}$.



## COMPONENTS

(1) Body with threaded inserts
(2) Transparent bowl
(3) Baffle plug
(4) Centrifuge
(5) Gaskets
(6) Filter cartridge

N.B.: For details on the materials used, please refer to the section "general technical data".

## FLOW CHARTS



FIL BIT F $1 / 4^{\prime \prime}$
$\Delta \mathrm{P}=(\mathrm{P} \ln -\mathrm{P}$ Out)


## DIMENSIONS



ORDERING CODES
Code Description
$5101002 F$ FIL BIT F $1 / 820$
5201002F FIL BIT F 1/4 20

## NOTES

## b't series f regulator for water

Water regulator characterized by the use of materials certified to specific standards on products for use in contact with foodstuff or drinking water. Declarations of conformity and release test reports are available on request for those who need them to certify our product incorporated in their own systems.
The white colour surface finish of the body was chosen to enhance the highly hygienic properties of the product.
Versions with brass threaded inlet and outlet ports and side sockets for pressure gauges and other uses with engineering plastic thread are available. There is also a version with inlet and outlet ports incorporated directly in the engineering plastic body, without requiring further threaded ports for pressure gauges.
If the pressure regulator works with incompressible fluids (water) and there is a valve leak, the downstream pressure could rise up to reach the inlet pressure and then it re-stabilizes with water consumption.
If necessary, consider the possibility of installing a safety valve that relieves any excess pressure.


| TECHNICAL DATA |  |
| :--- | ---: |
| Threaded port | bar |
| Setting range | MPa |
| Max. inlet pressure | bar |
|  | psi |
|  | $\mathrm{I} / \mathrm{min}$ |
| Flow rate at 6.3 bar ( $0.63 \mathrm{MPa} \div 91 \mathrm{psi}) \Delta \mathrm{P} 1 \mathrm{bar}(0.1 \mathrm{MPa} ; 14 \mathrm{psi})$ | scfm |
|  | ${ }^{\circ} \mathrm{C}$ |
| Max temperature at $10 \mathrm{bar}(1 \mathrm{MPa;}$; 145 psi$)$ | ${ }^{\circ} \mathrm{F}$ |
|  | g |
| Weight |  |
| Versions |  |
| Mounting position |  |
| Fluid |  |
| Notes |  |
|  |  |


| REG BIT F 1/8" | REG BIT F 1/4" |
| :---: | :---: |
| 1/8" | $1 / 4^{\prime \prime}$ |
| 0 to 2; 0 to 4; 0 to $8 ; 0$ to 12 |  |
| 1.3 |  |
| 13 |  |
| 188 |  |
| 6.5 | 7 |
| 0.23 | 0.25 |
| $50^{\circ}$ |  |
| $122^{\circ}$ |  |
| 80 |  |

With $1 / 8^{\prime \prime}$ or $1 / 4^{\prime \prime}$ brass threaded ports and $1 / 8^{\prime \prime}$ pressure gauge port. With $1 / 4^{\prime \prime}$ engineering plastic threaded ports, without pressure gauge ports

In any position
Water, air and fluids compatible with the materials used
The pressure must always be set upwards.
For increased sensitivity, use a pressure regulator with a rated pressure as close as possible to the required value.

## COMPONENTS

(1) Body with incorporated threads or threaded inserts
(2) Bell
(3) Fixing ring nut
(4) Knob
(5) Rolling diaphragm
(6) Plug
(7) Anti-vibration screen
(8) Plate with gasket
(9) Adjusting screws
(10) Valve gasket
(11) Nut
(12) Adjusting spring
(13) Valve spring
(44) Gaskets

N.B.: For details on the materials used, please refer to the section "general technical data".

## FLOW CHARTS

REG BIT F 1/8" 0-2
$\mathrm{Pm}=0.9 \mathrm{MPa} ; 9$ bar; 130 psi
Regulated pressure


REG BIT F 1/8" 0-4
$\mathrm{Pm}=0.9 \mathrm{MPa} ; 9$ bar; 130 psi
Regulated pressure


REG BIT F 1/8" 0-8; 0-12


REG BIT F 1/4" 0-2

## $\mathrm{Pm}=0.9 \mathrm{MPa} ; 9 \mathrm{bar} ; 130 \mathrm{psi}$

## Regulated pressure

pii MPa ber


REG BIT F 1/4" 0-4
$\mathrm{Pm}=0.9 \mathrm{MPa} ; 9$ bar; 130 psi
Regulated pressure


REG BIT F 1/4" 0-8; 0-12


## DIMENSIONS

DETAIL OF VERSION IN TECHNOPOLYMER

Body without pressure gauge ports


ORDERING CODES
Code Description REGULATOR WITH BRASS PORTS
5108001F REG BIT F 1/8 02 5108002F REG BIT F 1/8 04 5108003F REG BIT F 1/8 08 5108004F REG BIT F 1/8 012
5208001F REG BIT F 1/4 02
5208002F REG BIT F 1/404
5208003F REG BIT F 1/4 08
5208004F REG BIT F 1/4 012

REGULATOR WITH TECHNOPOLYMER PORTS **
5228001 F REG BIT F 1/4 TP 02
5228002F REG BIT F 1/4 TP 04
5228003F REG BIT F 1/4 TP 08
5228004F REG BIT F 1/4 TP 012
** Without pressure gauge ports

## NOTES

Filter-regulator characterized by the use of materials certified to specific standards on products for use in contact with foodstuff or drinking water. Declarations of conformity and release test reports are available on request for those who need them to certify our product incorporated in their own systems. The white colour surface finish of the body was chosen to enhance the highly hygienic properties of the product.
The transparent bowl was designed to make it possible to check the state of the filter cartridge. The transparent bowl was designed to make it possible to check the state of the filter cartridge.
Unlike compressed air filters, the bowl has no drain holes.
The cartridge fillration degree is $20 \mu \mathrm{~m}$.
If the pressure regulator works with incompressible fluids (water) and there is a valve leak, the downstream pressure could rise up to reach the inlet pressure and then it re-stabilizes with water consumption. If necessary, consider the possibility of installing a safety valve that relieves any excess pressure.


| TECHNICAL DATA |  | FR BIT F 1/8" | FR BIT F 1/4" |
| :---: | :---: | :---: | :---: |
| Threaded port |  | $1 / 8^{\prime \prime}$ | $1 / 4^{\prime \prime}$ |
| Setting range | bar | 0 to 2; 0 to 4; 0 to 8;0 to 12 |  |
| Degree of filtration | pm | 20 (white) |  |
| Max. inlet pressure | MPa | 1.3 |  |
|  | bar | 13 |  |
|  | psi | 188 |  |
| Flow rate at 6.3 bar ( $0.63 \mathrm{MPa} \div 91 \mathrm{psi}) \Delta \mathrm{AP} 1$ bar ( 0.1 MPa ; 14 psi) | 1/min | 6 | 6 |
|  | cfm | 0.21 | 0.21 |
| Max temperature at 10 bar (1 MPa; 145 psi ) | ${ }^{\circ} \mathrm{C}$ | 50 |  |
|  | ${ }^{\circ} \mathrm{F}$ | 122 |  |
| Weight | g | 110 |  |
| Mounting position |  | In any position |  |
| Fluid |  | Water, air and fluids compatible with the materials used |  |
| Notes |  | The pressure must dlways be set upwards. |  |
|  |  | For increased sensitivity, use a pressure regulator with a rated pressure as close as possible to the required value. |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## COMPONENTS

(1) Body with threaded inserts
(2) Bowl
(3) Knob
(4) Bell
(5) Fixing ring nut
(6) Nut
(7) Adjusting screws
(8) Adjusting spring
(9) Plate with gasket
(10) Rolling diaphragm
(11) Valve
(12) Valve spring
(13) Centrifuge
(44) Baffle plug
(15) Filter cartridge
(16) Gaskets
(17) Anti-vibration screen

N.B.: For details on the materials used, please refer to the section "general technical data".

## FLOW CHARTS

FR BIT F $1 / 8^{\prime \prime} 0-2$
$\mathrm{Pm}=0.9 \mathrm{MPa} ; 9$ bar; 130 psi
Regulated pressure

$\mathrm{Pm}=0.9 \mathrm{MPa} ; 9$ bar; 130 psi
Regulated pressure


FR BIT F $1 / 8^{\prime \prime} 0-8 ; 0-12$
$\mathrm{Pm}=0.9 \mathrm{MPa} ; 9 \mathrm{bar} ; 130 \mathrm{psi}$

Regulated pressure


FR BIT F $1 / 4^{\prime \prime} 0-2$
Pm = $0.9 \mathrm{MPa} ; 9$ bar; 130 psi
Regulated pressure


## FR BIT F $1 / 4^{\prime \prime} 0-4$

## $\mathrm{Pm}=0.9 \mathrm{MPa} ; 9$ bar; 130 psi

## Regulated pressure



FR BIT F $1 / 4^{\prime \prime} 0-8 ; 0-12$


## DIMENSIONS



* Pressure gauge port

NOTES

