

# bit SERIES F FILTER-REGULATOR FOR WATER



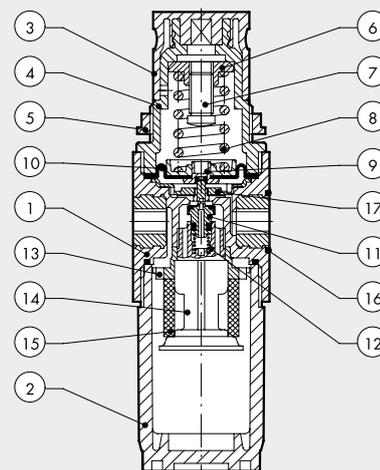
Filter-regulator characterized by the use of materials certified to specific standards on products for use in contact with foodstuff or drinking water. Declarations of conformity and release test reports are available on request for those who need them to certify our product incorporated in their own 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 filtration degree is 20 µm. 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"	
	1/8"		1/4"	
Threaded port	1/8"		1/4"	
Setting range	0 to 2; 0 to 4; 0 to 8; 0 to 12			
Degree of filtration	20 (white)			
Max. inlet pressure	MPa			
	1.3			
	bar			
Flow rate at 6.3 bar (0.63 MPa ÷ 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	psi			
	13			
	188			
Max temperature at 10 bar (1 MPa; 145 psi)	l/min		6	
	cfm		0.21	
Weight	°C		50	
	°F		122	
Mounting position	110			
Fluid	In any position			
Notes	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 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
- ⑭ 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".

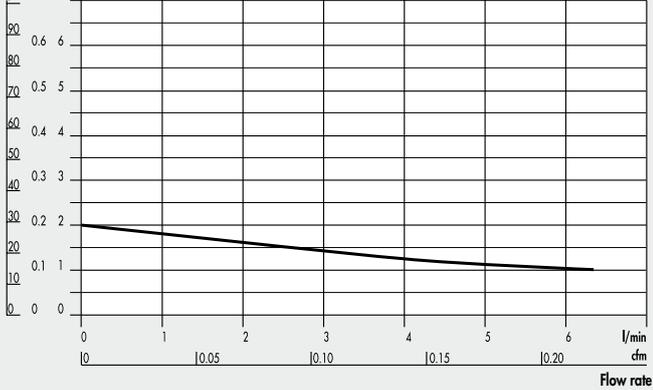
**FLOW CHARTS**

**FR BIT F 1/8" 0-2**

Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

psi MPa bar

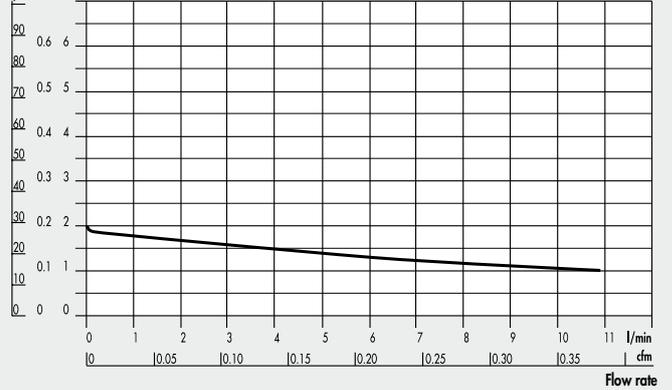


**FR BIT F 1/4" 0-2**

Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

psi MPa bar

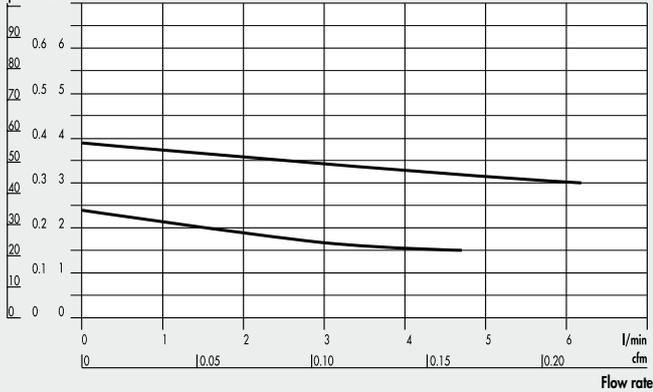


**FR BIT F 1/8" 0-4**

Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

psi MPa bar

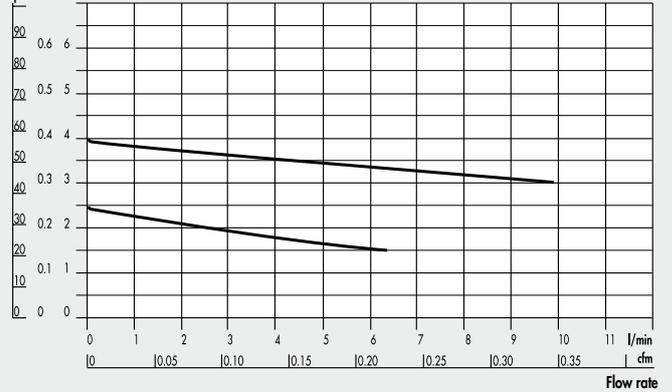


**FR BIT F 1/4" 0-4**

Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

psi MPa bar

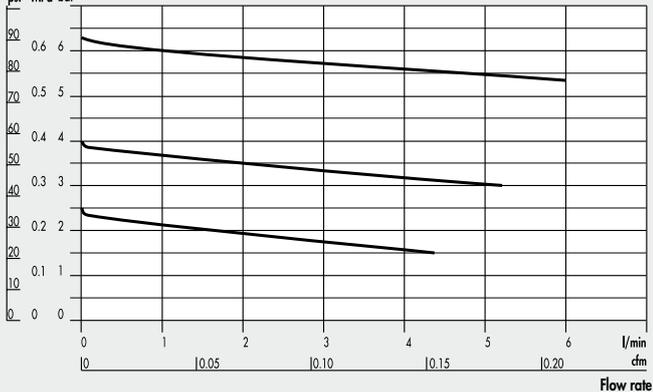


**FR BIT F 1/8" 0-8; 0-12**

Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

psi MPa bar

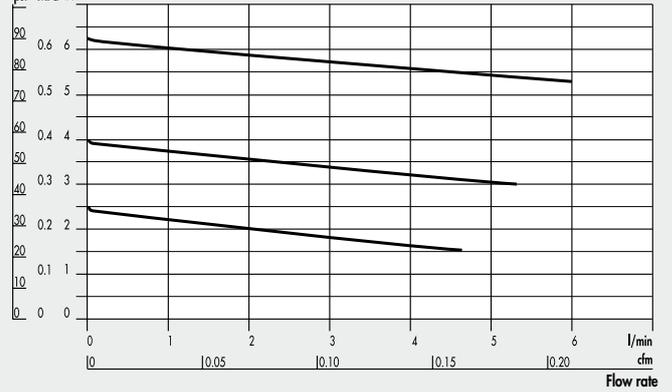


**FR BIT F 1/4" 0-8; 0-12**

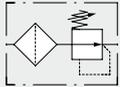
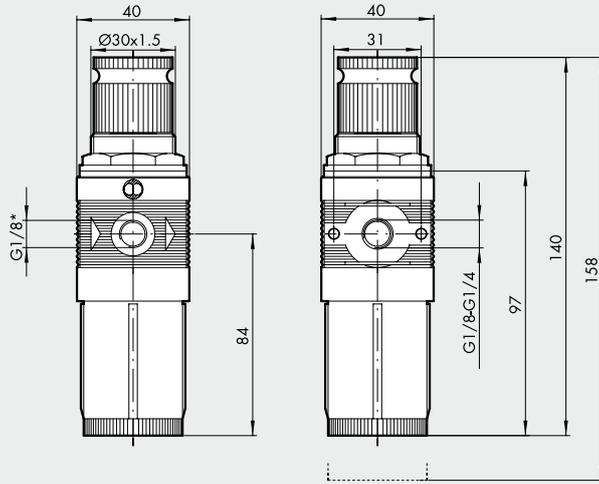
Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

psi MPa bar



**DIMENSIONS**



\* Pressure gauge port

**ORDERING CODES**

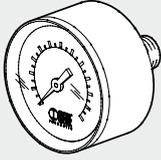
Code	Description
5105102F	FR BIT F 1/8 20 02
5105105F	FR BIT F 1/8 20 04
5105108F	FR BIT F 1/8 20 08
5105111F	FR BIT F 1/8 20 012
5205102F	FR BIT F 1/4 20 02
5205105F	FR BIT F 1/4 20 04
5205108F	FR BIT F 1/4 20 08
5205111F	FR BIT F 1/4 20 012

**NOTES**

# bit ACCESSORIES

## ACCESSORIES FOR STANDARD bit AND SERIES F bit FOR WATER

### PRESSURE GAUGE



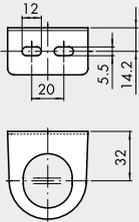
Code	Description
9700102 *	M 40 1/8 04
9700101 *	M 40 1/8 012



9700109 *	M 40x40 1/8 04
9700110 *	M 40x40 1/8 012

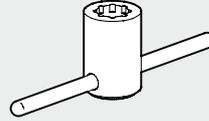
\* Cannot be used with water

### R/FR FIXING BRACKET



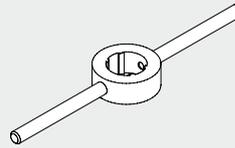
Code	Description
9200701	SF100 - BIT - ND 1/4 - SY1

### DOME DISASSEMBLY SPANNER



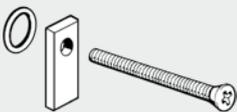
Code	Description
9220701	Cover LUB spanner

### COVER DISASSEMBLY SPANNER



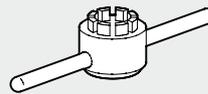
Code	Description
9170401	CS CS BIT

### ASSEMBLY PLATE (PAIR)



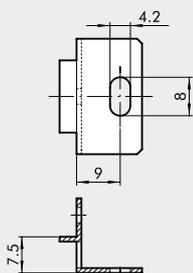
Code	Description
9170201	PAB 1/8 - 1/4 BIT

### REDUCER PLUG DISASSEMBLY SPANNER



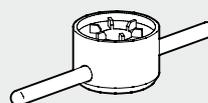
Code	Description
9170501	CS OTR BIT

### WALL MOUNTING BRACKET (PAIR)



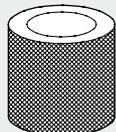
Code	Description
9170301	SFB 1/8 - 1/4 BIT

### BOWL DISASSEMBLY SPANNER



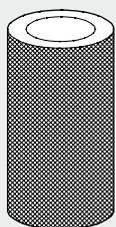
Code	Description
9170601	CS TF - TL BIT - SY1

**FILTER CARTRIDGE**



Code	Description
9251808	Spares filter cartridge BIT 5 (yellow)
9251809	Spares filter cartridge BIT 20 (white)
9251810	Spares filter cartridge BIT 50 (blue)

**DEPURATOR FILTER ELEMENT**



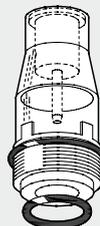
Code	Description
9251712	Spares FP DEP. 1/8 1/4 BIT

**COMPLETE POPPET FOR FR**



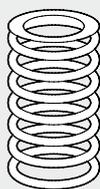
Code	Description
9250905	Spares OTFR 1/8 1/4 BIT 5 (yellow)
9250906	Spares OTFR 1/8 1/4 BIT 20 (white)
9250907	Spares OTFR 1/8 1/4 BIT 50 (blue)

**TRANSPARENT LUBRICATOR COVER**



Code	Description
9251302	Spares CVL 100-200-300-400 BIT

**SPRING FOR MR, FR**



Code	Description
9250610	Spares MO 02 BIT
9250611	Spares MO 04 BIT
9250612	Spares MO 08 BIT
9250613	Spares MO 012 BIT

**NOTES**

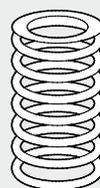
**SPARE PARTS FOR SERIES F bit FOR WATER**

**FILTER ELEMENT**



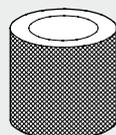
Code	Description
9251709	Spares FP 1/8-1/4 BIT 20 (white)

**SPRING FOR REG F, FR F**



Code	Description
9250610	Spares MO 02 BIT
9250611	Spares MO 04 BIT
9250612	Spares MO 08 BIT
9250613	Spares MO 012 BIT

**FILTER CARTRIDGE**



Code	Description
9251809	Spares filter cartridge BIT 20 (white)

**NOTES**

# GENERAL TECHNICAL DATA

## bit SERIES F FOR WATER



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.

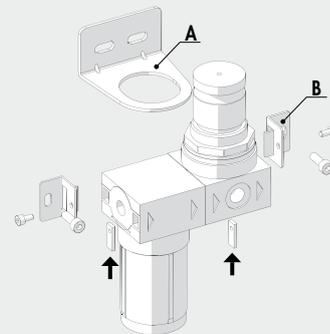


TECHNICAL DATA		BIT F 1/8"	BIT F 1/4"
Threaded port		1/8"	1/4"
Max. inlet pressure	MPa		1.3
	bar		13
	psi		188
Max temperature at 10 bar (1 MPa; 145 psi)	°C		50
	°F		122
Elements		Filter - Regulator - Filter regulator	
Mounting		Fixed to a wall, using fixing plate code 9170301 and M4 screws, or fixing bracket code 9200701 for the threaded regulator and filter-regulator bell.	
Fluid		Panel-mounted using the threaded bell of the regulator or filter-regulator (Ø hole 30-32 mm). Water, air and fluids compatible with the materials used	

### WALL MOUNTING

The wall fixing of a bit unit can be made through:

- Fixing bracket R/FR code 9200701 (A)
- Wall fixing plates code 9170301 (B)



### MATERIALS

#### COMPONENTS IN CONTACT WITH THE FLUID

Designation	Material	Certifications
Body	Hostaform® C13031	European Regulation (EU) 10/2011, KTW, W270, WRAS, ACS, NSF61
Threaded body inserts	CW510L low-lead brass	Approved for compliance with the UBA List, NSF/ANSI 372
Transparent bowl	TR90 Grilamid®	European Regulation (EU) 10/2011, KTW, W270, WRAS, NSF61
Rolling diaphragm	0477 NBR 70 telato	DM174/04, KTW, W270, WRAS, ACS, NSF61
Valve	AISI 303 stainless steel with vulcanized gasket 0477 NBR 70	Approved for compliance with the UBA List DM174/04, KTW, W270, WRAS, ACS, NSF61
Valve spring	AISI 302 stainless steel	Approved for compliance with the UBA List
Gaskets	0477 NBR 70	DM174/04, KTW, W270, WRAS, ACS, NSF61
Filter cartridge	GUR X192	European Regulation (EU) 10/2011,
Centrifuge	Hostaform® C13031	European Regulation (EU) 10/2011, KTW, W270, WRAS, ACS, NSF61
Baffle plug	Hostaform® C13031	European Regulation (EU) 10/2011, KTW, W270, WRAS, ACS, NSF61

#### COMPONENTS NOT IN CONTACT WITH THE FLUID

Designation	Material
Bell	Technopolymer
Fixing ring nut	Technopolymer
Nut	OT58 brass
Adjusting screw	OT58 brass
Adjusting spring	Steel