

bit 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.

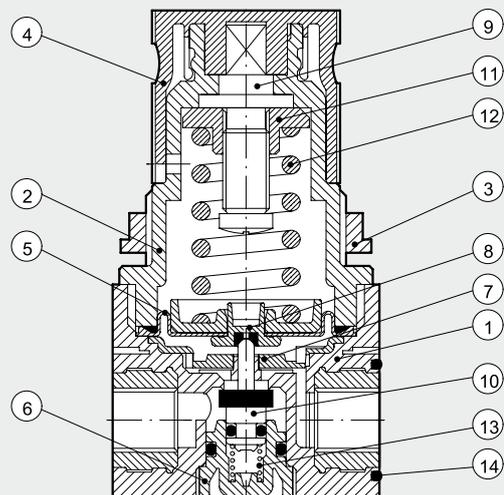


TECHNICAL DATA

		REG BIT F 1/8"	REG BIT F 1/4"
Threaded port		1/8"	1/4"
Setting range	bar	0 to 2; 0 to 4; 0 to 8; 0 to 12	
Max. inlet pressure	MPa	1.3	
	bar	13	
	psi	188	
Flow rate at 6.3 bar (0.63 MPa ÷ 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	l/min	6.5	7
	scfm	0.23	0.25
Max temperature at 10 bar (1 MPa; 145 psi)	°C	50°	
	°F	122°	
Weight	g	80	
Versions		With 1/8" or 1/4" brass threaded ports and 1/8" pressure gauge port. With 1/4" engineering plastic threaded ports, without pressure gauge ports	
Mounting position		In any position	
Fluid		Water, air and fluids compatible with the materials used	
Notes		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
- ⑭ Gaskets



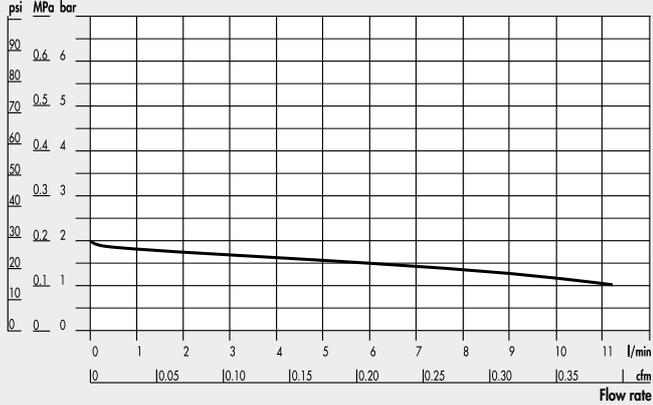
N.B.: For details on the materials used, please refer to the section "general technical data".

FLOW CHARTS

REG BIT F 1/8" 0-2

Pm = 0.9 MPa; 9 bar; 130 psi

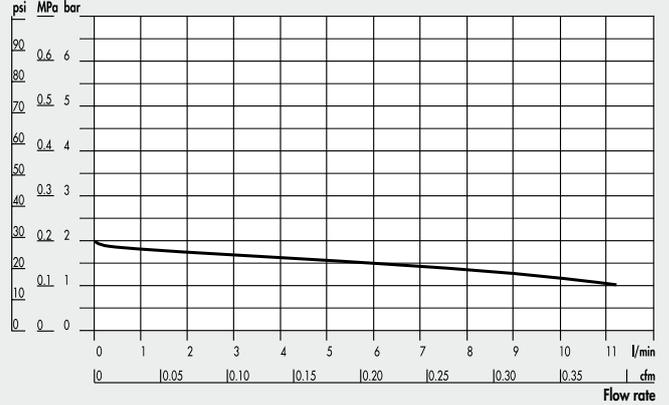
Regulated pressure



REG BIT F 1/4" 0-2

Pm = 0.9 MPa; 9 bar; 130 psi

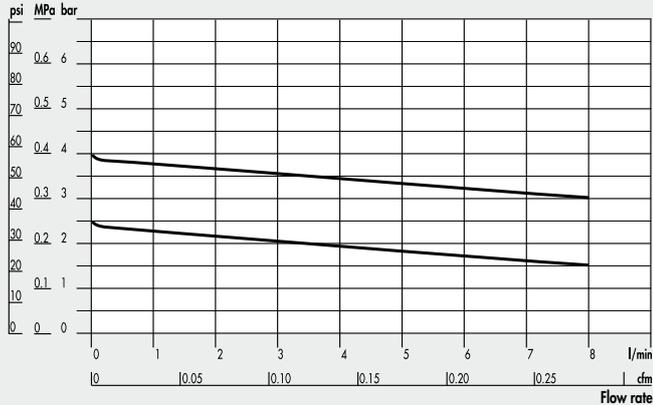
Regulated pressure



REG BIT F 1/8" 0-4

Pm = 0.9 MPa; 9 bar; 130 psi

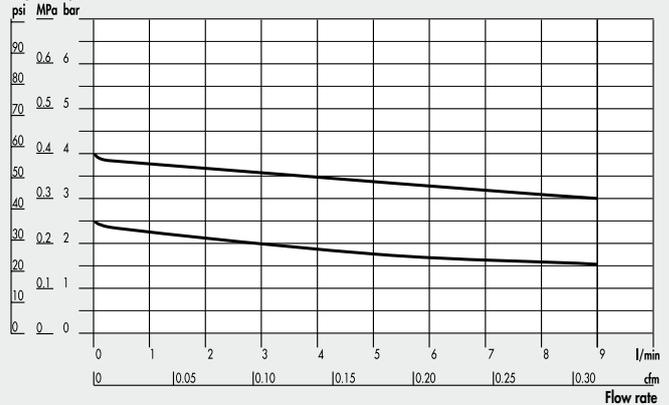
Regulated pressure



REG BIT F 1/4" 0-4

Pm = 0.9 MPa; 9 bar; 130 psi

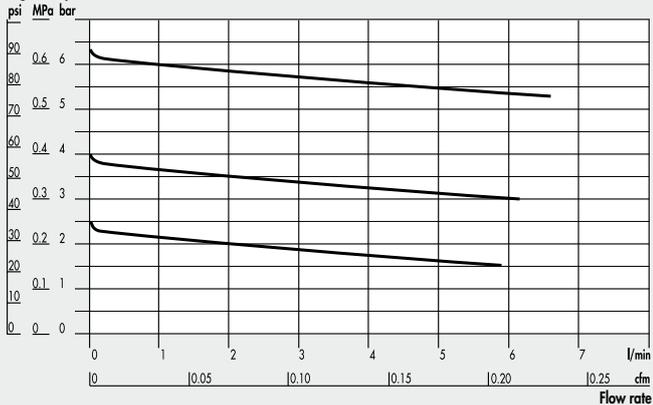
Regulated pressure



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

Pm = 0.9 MPa; 9 bar; 130 psi

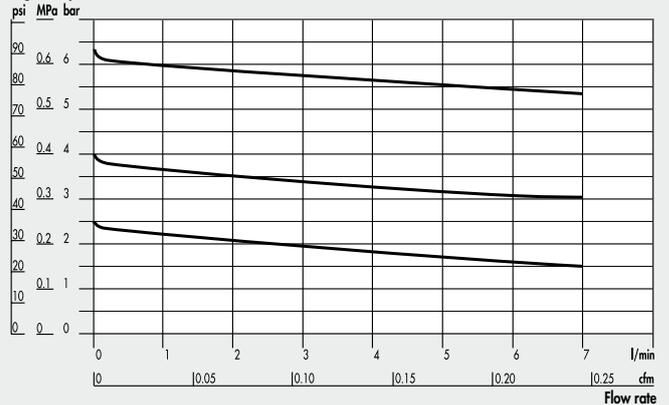
Regulated pressure



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

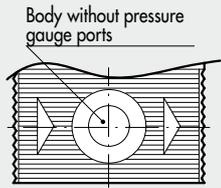
Pm = 0.9 MPa; 9 bar; 130 psi

Regulated pressure

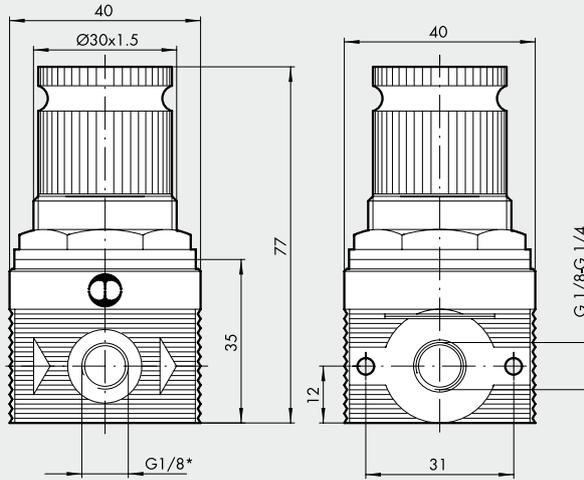


DIMENSIONS

DETAIL OF VERSION
IN TECHNOPOLYMER



Body without pressure
gauge ports



* Pressure gauge port (not supplied in the technopolymer version)

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 1/4 04
5208003F	REG BIT F 1/4 08
5208004F	REG BIT F 1/4 012

REGULATOR WITH TECHNOPOLYMER PORTS **	
5228001F	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

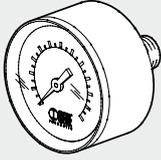
** Without pressure gauge ports

NOTES

bit ACCESSORIES

ACCESSORIES FOR STANDARD bit AND SERIES F bit FOR WATER

PRESSURE GAUGE



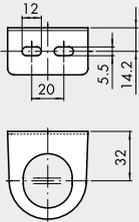
Code	Description
9700102 *	M 40 1/8 04
9700101 *	M 40 1/8 012



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

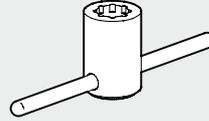
* Cannot be used with water

R/FR FIXING BRACKET



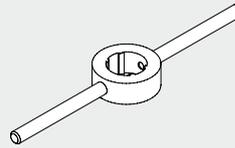
Code	Description
9200701	SF100 - BIT - ND 1/4 - SY1

DOME DISASSEMBLY SPANNER



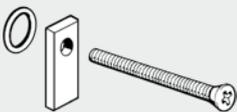
Code	Description
9220701	Cover LUB spanner

COVER DISASSEMBLY SPANNER



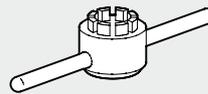
Code	Description
9170401	CS CS BIT

ASSEMBLY PLATE (PAIR)



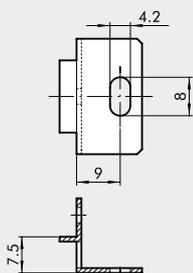
Code	Description
9170201	PAB 1/8 - 1/4 BIT

REDUCER PLUG DISASSEMBLY SPANNER



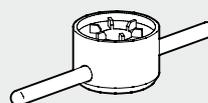
Code	Description
9170501	CS OTR BIT

WALL MOUNTING BRACKET (PAIR)



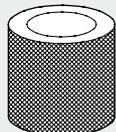
Code	Description
9170301	SFB 1/8 - 1/4 BIT

BOWL DISASSEMBLY SPANNER



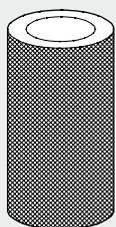
Code	Description
9170601	CS TF - TL BIT - SY1

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



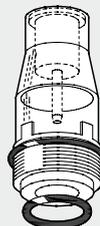
Code	Description
9251712	Spares FP DEP. 1/8 1/4 BIT

COMPLETE POPPET FOR FR



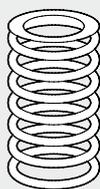
Code	Description
9250905	Spares OTFR 1/8 1/4 BIT 5 (yellow)
9250906	Spares OTFR 1/8 1/4 BIT 20 (white)
9250907	Spares OTFR 1/8 1/4 BIT 50 (blue)

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

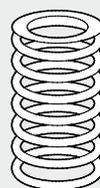
SPARE PARTS FOR SERIES F bit FOR WATER

FILTER ELEMENT



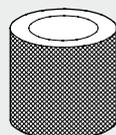
Code	Description
9251709	Spares FP 1/8-1/4 BIT 20 (white)

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.

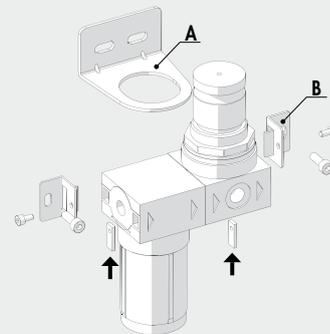


TECHNICAL DATA		BIT F 1/8"	BIT F 1/4"
Threaded port		1/8"	1/4"
Max. inlet pressure	MPa		1.3
	bar		13
	psi		188
Max temperature at 10 bar (1 MPa; 145 psi)	°C		50
	°F		122
Elements		Filter - Regulator - Filter regulator	
Mounting		Fixed to a wall, using fixing plate code 9170301 and M4 screws, or fixing 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