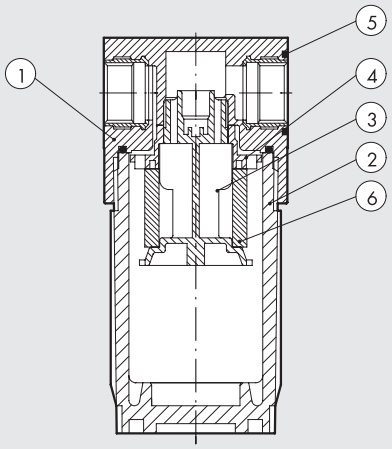
bit SERIES F FILTER FOR WATER

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 µm.

TECHNICAL DATA		FIL BIT F 1/8"	FIL BIT F 1/4"
Threaded port		1/8"	1/4"
Degree of filtration	µm	20 (white)	
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	13	14.5
	cfm	0.46	0.51
Max temperature at 10 bar (1 MPa; 145 psi)	°C	50	
	°F	122	
Weight	g	40	
Internal volume	cm^3	40	
Mounting position		In any position	
Fluid		Water, air and fluids compatible with the materials used	

COMPONENTS

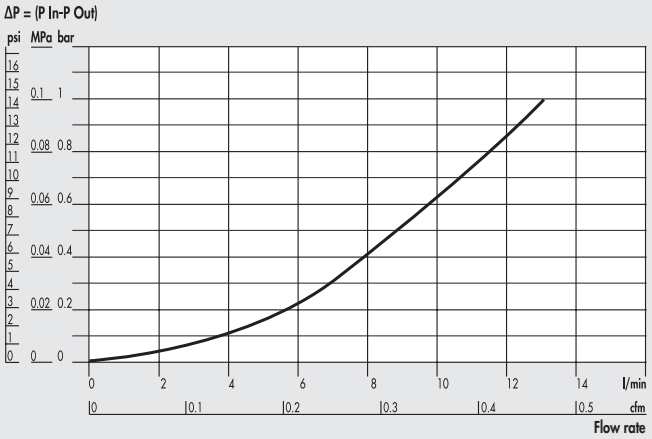
① Body with threaded inserts
② Transparent bowl
③ Baffle plug
④ Centrifuge
⑤ Gaskets
⑥ Filter cartridge



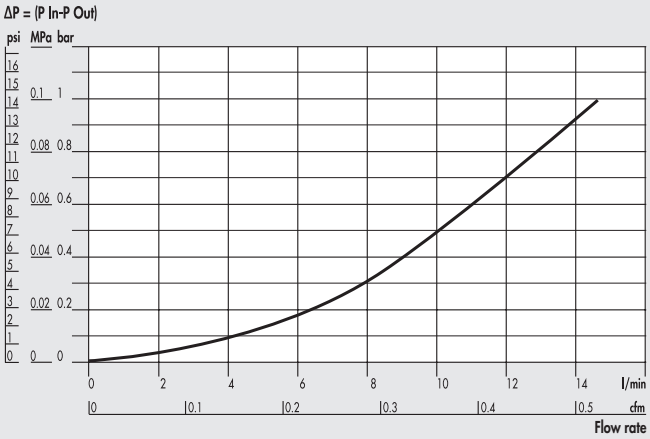
N.B.: For details on the materials used, please refer to the section "general technical data".

FLOW CHARTS

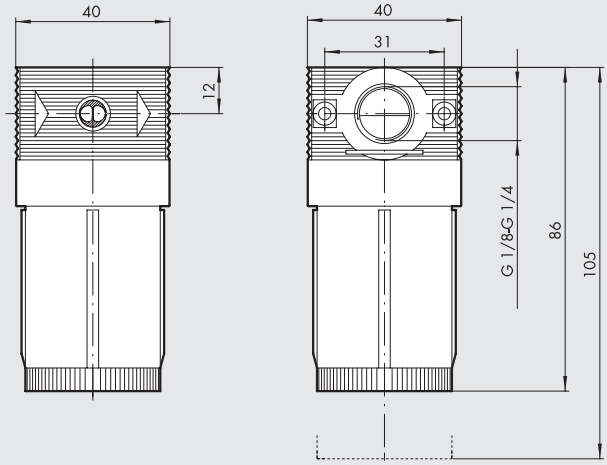
FIL BIT F 1/8"



FIL BIT F 1/4"



DIMENSIONS



ORDERING CODES

Code	Description
5101002F	FIL BIT F 1/8 20
5201002F	FIL BIT F 1/4 20

NOTES

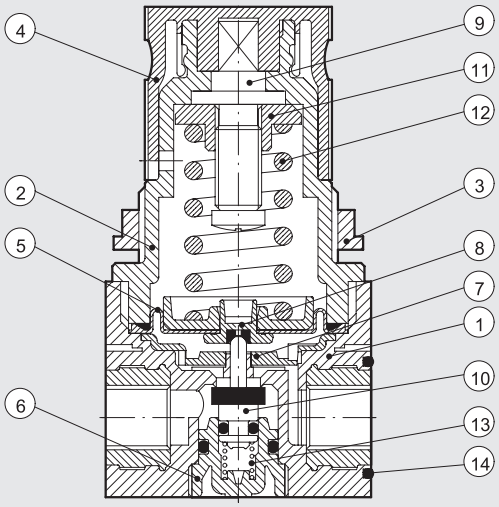
bit SERIES F REGULATOR FOR WATER

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

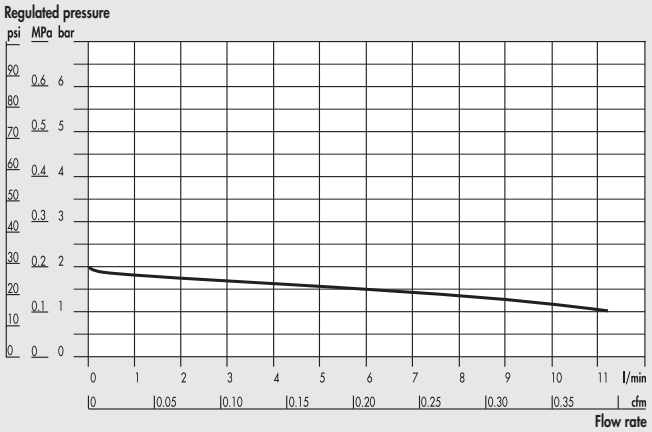


N.B.: For details on the materials used, please refer to the section "general technical data".

FLOW CHARTS

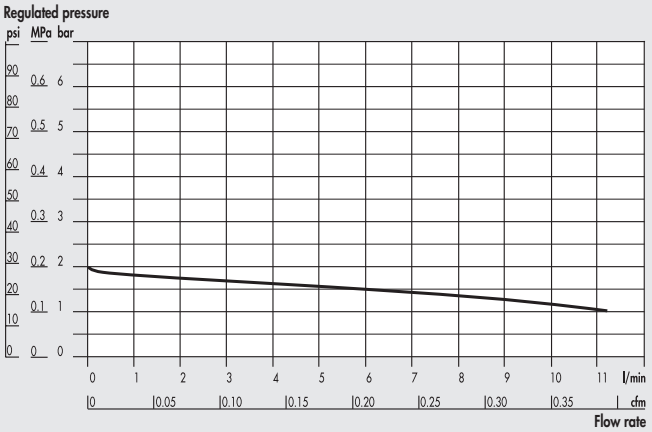
REG BIT F 1/8" 0-2

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



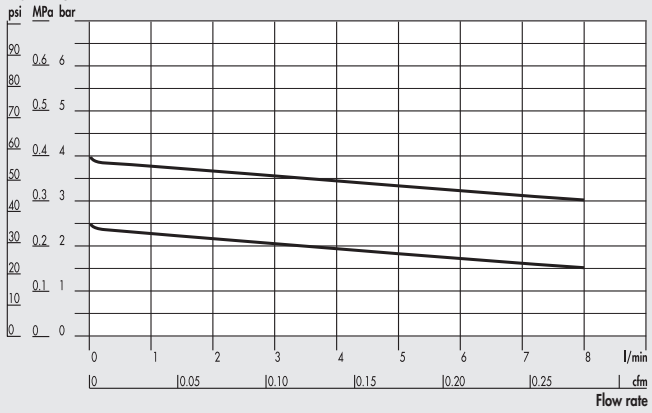
REG BIT F 1/4" 0-2

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



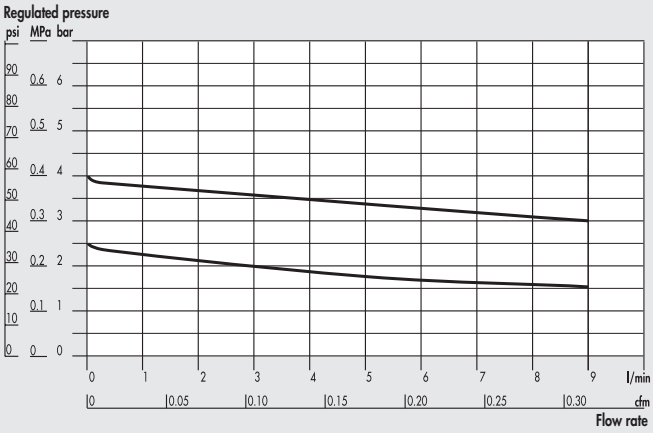
REG BIT F 1/8" 0-4

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



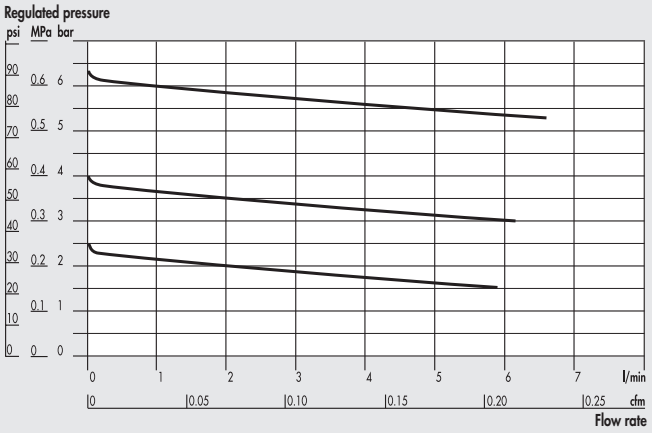
REG BIT F 1/4" 0-4

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



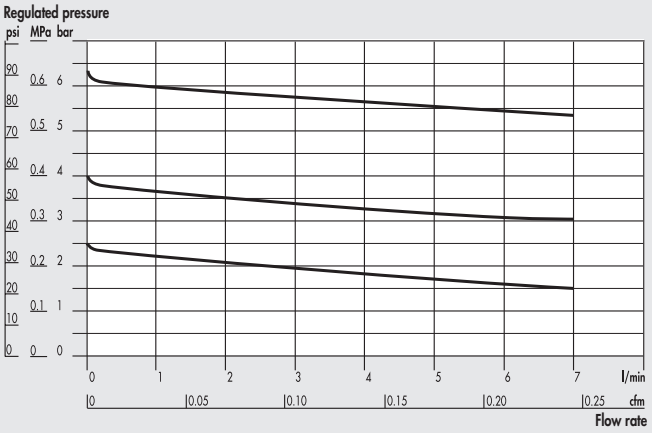
REG BIT F 1/8" 0-8; 0-12

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure

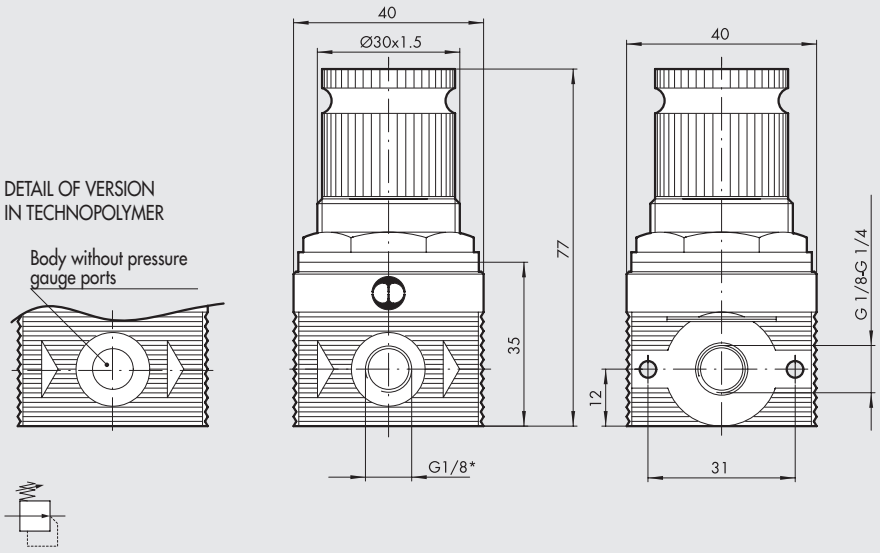


REG BIT F 1/4" 0-8; 0-12

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



DIMENSIONS



* 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

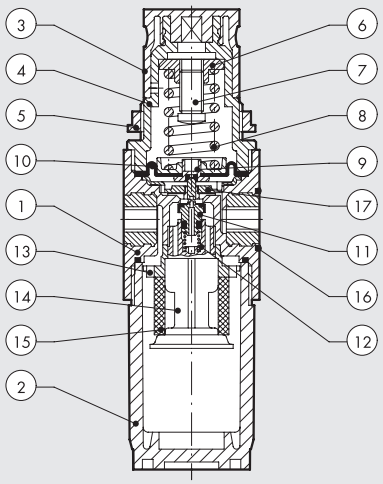
bit SERIES F FILTER-REGULATOR FOR WATER

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"
Threaded port		1/8"	1/4"
Setting range	bar	0 to 2; 0 to 4; 0 to 8; 0 to 12	
Degree of filtration	µm	20 (white)	
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	6
	cfm	0.21	0.21
Max temperature at 10 bar (1 MPa; 145 psi)	°C	50	
	°F	122	
Weight	g	110	
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 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

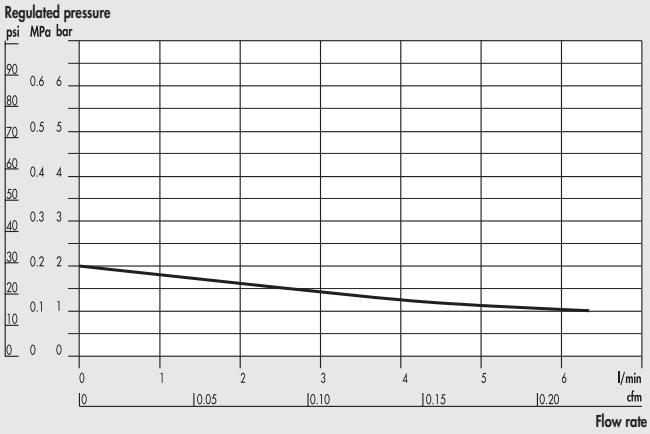


N.B.: For details on the materials used, please refer to the section "general technical data".

FLOW CHARTS

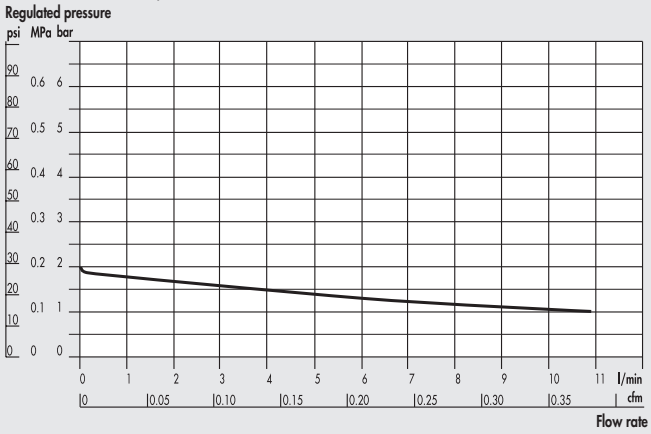
FR BIT F 1/8" 0-2

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



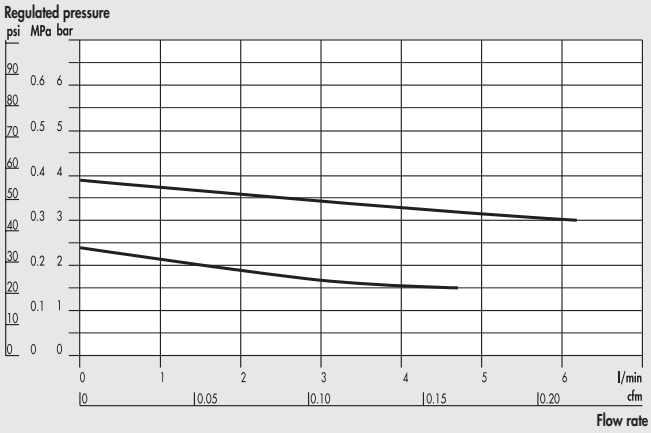
FR BIT F 1/4" 0-2

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



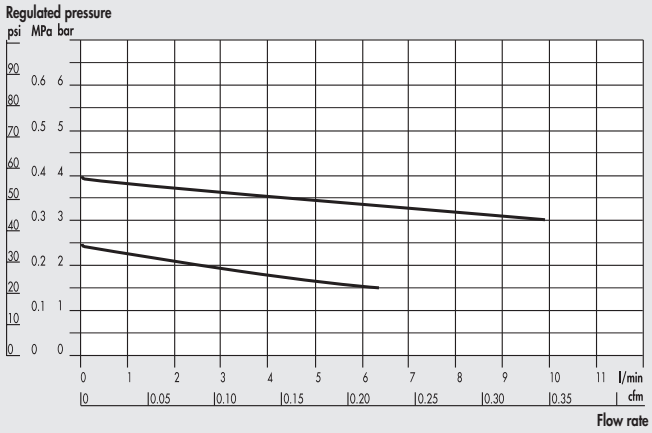
FR BIT F 1/8" 0-4

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



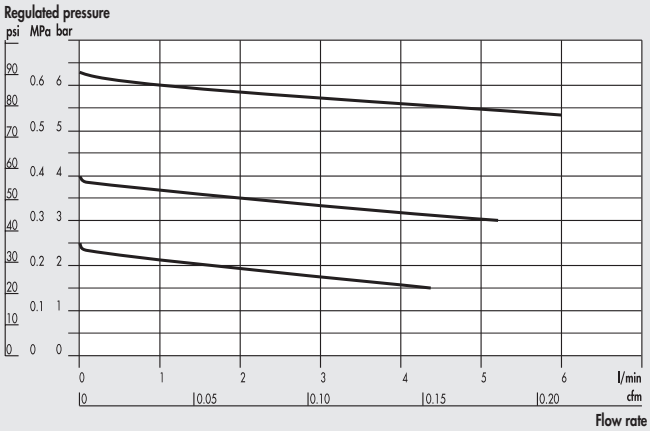
FR BIT F 1/4" 0-4

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



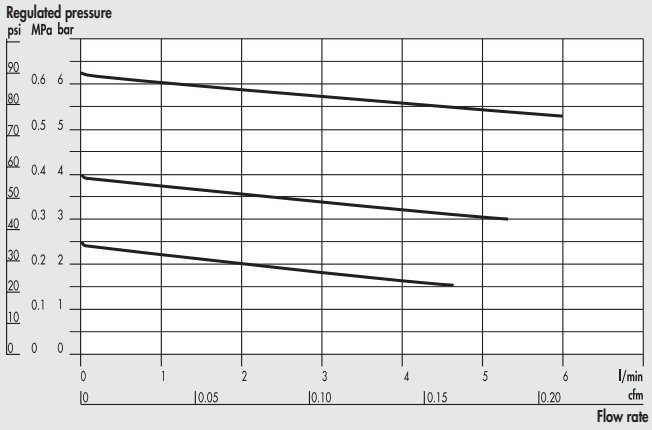
FR BIT F 1/8" 0-8; 0-12

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure

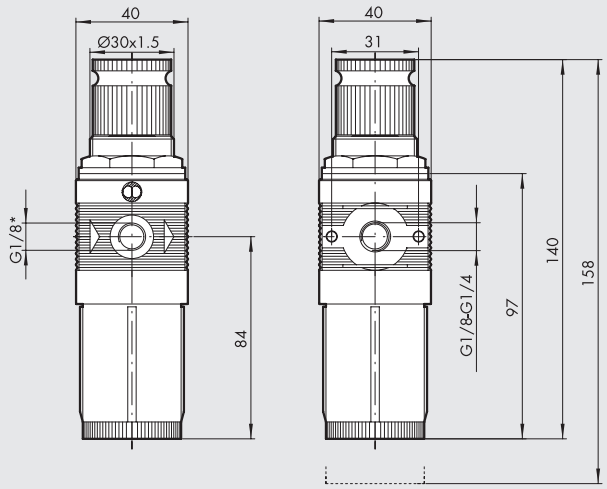


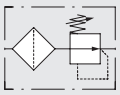
FR BIT F 1/4" 0-8; 0-12

Pm = 0.9 MPa; 9 bar; 130 psi
Regulated pressure



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