# bit MICRO-REGULATOR

Micro-regulator with rolling diaphragm.

- Preset pressure stability as the upstream pressure varies.High flow rates with reduced pressure drops
- Quick overpressure exhaust

#### Versions available

bit FC: controlled relief to allow greater accuracy in regulation by means of slight continuous air relief.

bit for water: used to regulate the pressure in water circuits; without blowoff valve

bit SR: for use when the downstream circuit needs to be relieved quickly as the upstream pressure drops. Mount the SR regulator between the power supply valve and the point of use.

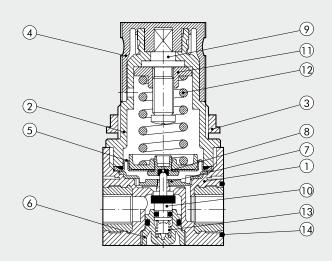


TECHNICAL DATA		MR BIT 1/8"	MR BIT 1/4"	
Threaded port		1/8″	1/4″	
Setting range		0 to 2 - 0 to 4 - 0 to 8 - 0 to 12		
Max. inlet pressure	MPa	1.3		
	bar			
	psi			
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	Nl/min			
	scfm			
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ∆P 1 bar (0.1 MPa to 14 psi)	Nl/min	600		
	scfm	21		
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50		
	°F	122		
Weight	g	80		
Wall fixing screws		M4 by means of the bracket provided		
Gauge port		G 1/8″		
Mounting position		In any position		
Fluid		Filtered, lubricated or unlubricated compressed air		
Notes		The regulator pressure must always be set upwards.		
		For increased sensitivity, use a pressure		
		as close as possible to the	e required value.	

### **COMPONENTS**

- Technopolymer body with OT58 threaded element
   Technopolymer bell
- ③ Technopolymer fixing ring nut
   ④ Technopolymer knob

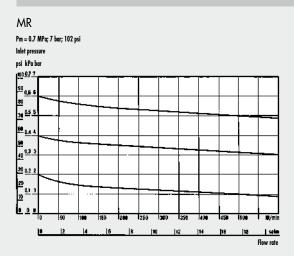
- 4) recnnopolymer knob
  5) Rolling diaphragm
  6) Technopolymer plug
  7) Technopolymer anti-vibration screen
  8) NBR relieving gasket
  9) OT58 brass adjusting screws
  10) OT58 valve with NBR vulcanized gasket
  10) OT58 brass avit
- 1) OT58 brass nut
- 12 Steel adjusting spring
- 3 Stainless steel valve compression spring
- (1) NBR gaskets

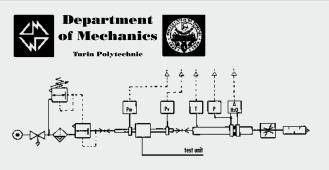


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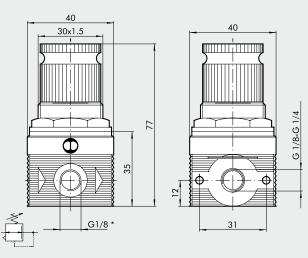
### FLOW CHARTS





• Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

## DIMENSIONS



\* Pressure gauge port

### SYNOPTIC, SIZES AND VERSIONS

MR	BIT	FC	1/8	02
ELEMENT	SIZE	VERSION	Threaded Port	CONDENSATE DRAIN
MR	BIT	FC = Controlled relief SR = Quickly relieved	1/8″ 1/4″	02 = 0  to  2  bar 04 = 0  to  4  bar
MRA		<u> </u>		08 = 0 to 8 bar 012 = 0 to 12 bar

ORDERING CODES					
Code	Description				
MICROREGU	ilator (MR)				
5107004	MR BIT 1/8 012				
5107001	MR BIT 1/8 02				
5107002	MR BIT 1/8 04				
5107003	MR BIT 1/8 08				
5207004	MR BIT 1/4 012				
5207001	MR BIT 1/4 02				
5207002	MR BIT 1/4 04				
5207003	MR BIT 1/4 08				
MICROREGU	LATOR WITH CONTROLLED RELIEF				
5111001	MR BIT FC 1/8 02				
5111002	MR BIT FC 1/8 04				
5211001	MR BIT FC 1/4 02				
5211002	MR BIT FC 1/4 04				
MICROREGU	lator with quick relief				
5102001	MR BIT SR 1/8 02				
5102002	MR BIT SR 1/8 04				
5102003	MR BIT SR 1/8 08				
5102004	MR BIT SR 1/8 012				
5202001	MR BIT SR 1/4 02				
5202002	MR BIT SR 1/4 04				
5202003	MR BIT SR 1/4 08				
5202004	MR BIT SR 1/4 012				
WATER MICR	OREGULATOR				
5108001	MRA BIT 1/8 02				
5108002	MRA BIT 1/8 04				
5108003	MRA BIT 1/8 08				
5108004	MRA BIT 1/8 012				
5208001	MRA BIT 1/4 02				
5208002	MRA BIT 1/4 04				
5208003	MRA BIT 1/4 08				
5208004	MRA BIT 1/4 012				

**C2** 

# **bit** PADLOCKABLE MICROREGULATOR

The padlockable microregulator has a pin with a hole in it that projects from the top of the knob. When the knob is in the push-lock position, the padlock can be inserted in the hole, preventing the knob from being operated. A padlock and two keys are supplied with the regulator.

Refer to the bit microregulator for technical data and flow curves.

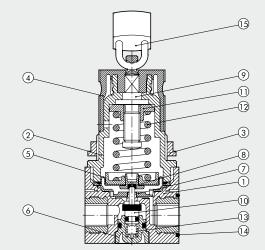
### **COMPONENTS**

- Technopolymer body with OT58 threaded element
- Technopolymer bell
- Technopolymer fixing ring nut
   Technopolymer knob
   Rolling diaphragm

- 6 Technopolymer plug
- Technopolymer anti-vibration screen 1
- 8
- 9
- NBR relieving gasket Nickel-plated brass OT58 adjusting screws OT58 valve with NBR vulcanized gasket (10)
- OT58 brass nut (11)
- Steel adjusting spring (12)
- Stainless steel valve compression spring (13)
- NBR gaskets (14)
- 15 Padlock

UNITS

bit PADLOCKABLE MICROREGULATOR



**ORDERING CODES** 

Description

MR BIT KEY 1/8 02

MR BIT KEY 1/8 04

MR BIT KEY 1/8 08

MR BIT KEY 1/4 02

MR BIT KEY 1/4 04

MR BIT KEY 1/4 08

MR BIT KEY 1/4 012

MR BIT KEY 1/8 012

Code

5110001

5110002 5110003

5110004

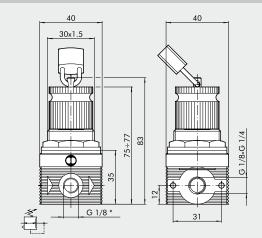
5210001

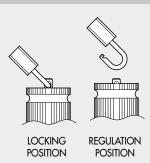
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5210004

# DIMENSIONS





### \* Pressure gauge port

### SYNOPTIC, SIZES AND VERSIONS

MR	BIT	KEY	1/8	02
ELEMENT	SIZE	TYPE	THREADED PORT	SETTING RANGE
MR	BIT	Padlockable	1/8 1/4	$\begin{array}{llllllllllllllllllllllllllllllllllll$

