

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

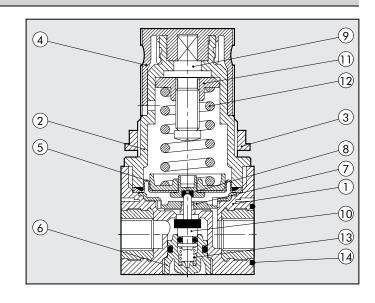
Bit SR: for use when the downstream circuit needs to be relieved quickly as the upstream pressure drops. Mount the SR regulator between the power supply valve and the point of use.



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		13
	psi	1	88
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 0.5 bar (0.05 MPa – 7 psi)		340 NI/min = 12 scfm	
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 1 bar (0.1 MPa – 14 psi)		600 NI/min = 21 scfm	
Fluid		Filtered, lubricated or unlubricated compresse	d air. Lubrication, if used, must be continuous
Max temperature at 1 Mpa; 10 bar; 145 psi	°C	:	50
	°F	1	22
Weight	gr	80	
Wall fixing screws		M 4	
Mounting		In any position	
Gauge port		G	1/8"
Notes:		• 1	st always be set upwards.
		For increased sensitivity, use a press	
		as close as possible t	o the required value.

COMPONENTS

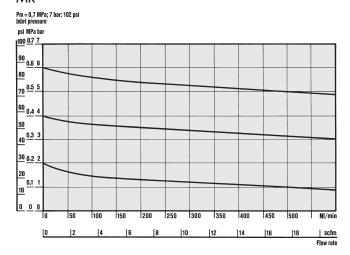
- 1) Technopolymer body with OT58 threaded elements
- 2 Technopolymer bell
- 3 Technopolymer fixing ring nut
- 4 Technopolymer knob
- (5) Rolling diaphragm
- 6 Technopolymer plug
- 7 Technopolymer anti-vibration screen
- (8) NBR relieving gasket
- (9) OT58 brass adjusting screws
- (10) OT58 valve with NBR vulcanized gasket
- (11) OT58 brass nut
- (12) Steel adjusting spring
- (3) Stainless steel valve compression spring
- (14) NBR gaskets



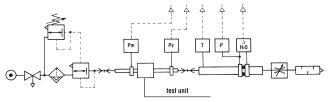


FLOW CHARTS

MR

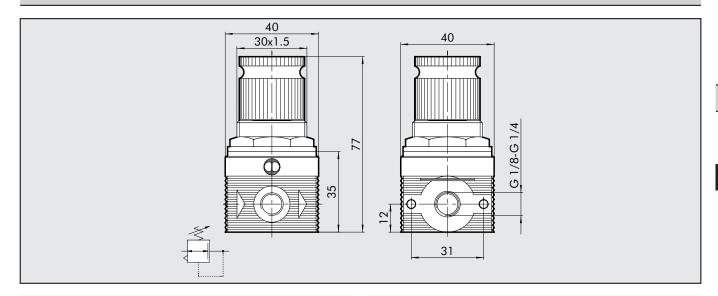






• Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

DIMENSIONS



KEY TO CODES

MR BIT FC 1/8 02 ELEMENT SIZE VERSION THREADED PORT CONDENSAT DRAIN MR BIT FC 1/8 02 BIT SR 1/4 04 MRA BIT (for WATER) 012	·	
ELEMENT SIZE VERSION THREADED PORT CONDENSAT DRAIN MR BIT FC 1/8 02 BIT SR 1/4 04 BIT BIT 08	D DIT FC 1/0	00
MR BIT FC 1/8 02 BIT SR 1/4 04 BIT 08	K BII FC 1/8	02
BIT SR 1/4 04 BIT 08		
MRA BIT (for WATER) 012	BIT SR 1/4	04

FC: Controlled relief SR: Quickly relieved MRA: Without relief (for water)

ORDERING CODES

OKDEKII 10 CODES	
Code Description	Code Description
MICROREGULATOR (MR)	MICROREGULATOR WITH QUICK RELIEF
5107001 MR BIT 1/8 02	5102001 MR BIT SR 1/8 02
5107002 MR BIT 1/8 04	5102002 MR BIT SR 1/8 04
5107003 MR BIT 1/8 08	5102003 MR BIT SR 1/8 08
5107004 MR BIT 1/8 012	5102004 MR BIT SR 1/8 012
5207001 MR BIT 1/4 02	5202001 MR BIT SR 1/4 02
5207002 MR BIT 1/4 04	5202002 MR BIT SR 1/4 04
5207003 MR BIT 1/4 08	5202003 MR BIT SR 1/4 08
5207004 MR BIT 1/4 012	5202004 MR BIT SR 1/4 012
MICROREGULATOR WITH	WATER MICROREGULATOR
CONTROLLED RELIEF	5108001 MRA BIT 1/8 02
5111001 MR BIT FC 1/8 02	5108002 MRA BIT 1/8 04
5111002 MR BIT FC 1/8 04	5108003 MRA BIT 1/8 08
5211001 MR BIT FC 1/4 02	5108004 MRA BIT 1/8 012
5211002 MR BIT FC 1/4 04	5208001 MRA BIT 1/4 02
	5208002 MRA BIT 1/4 04
	5208003 MRA BIT 1/4 08
	5208004 MRA BIT 1/4 012