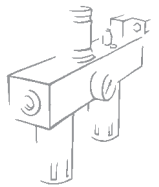# bit PADLOCKABLE MICROREGULATOR

The Bit microregulator uses a rolling diaphragm system that ensures:
• stability of the pressure setting when the upstream pressure changes.
• high flow rate with reduced drops in pressure
• rapid relief of overpressures.
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.

TECHNICAL DATA		MR BIT KEY 1/8''	MR BIT KEY 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 0.5 bar (0.05 MPa – 7 psi)		340 Nl/min = 12 scfm	
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 1 bar (0.1 MPa – 14 psi)		600 Nl/min = 21 scfm	
Fluid		Filtered, lubricated or unlubricated compressed air. Lubrication, if used, must be continuous	
Max temperature at 1 Mpa; 10 bar; 145 psi	°C	50	
	°F	122	
Weight	gr	80	
Wall fixing screws		M 4	
Mounting		In any position	
Gauge port		G 1/8''	
Notes:		The regulator 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 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 Nickel-plated brass OT58 adjusting screws
⑩ OT58 valve with NBR vulcanized gasket
⑪ OT58 brass nut
⑫ Steel adjusting spring
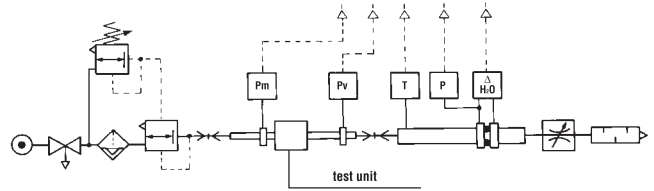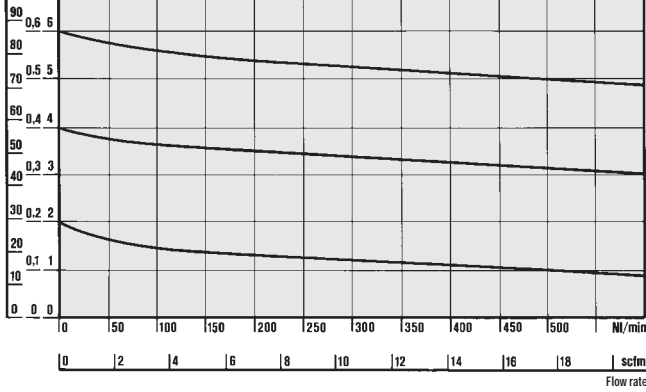⑬ Stainless steel valve compression spring
⑭ NBR gaskets
⑮ Padlock
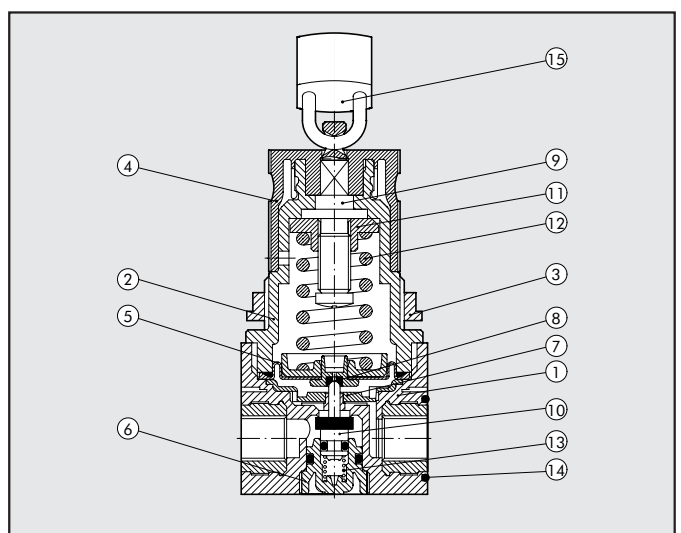
FLOW CHARTS

MR

Pm = 0,7 MPa; 7 bar; 102 psi
Inlet pressure

psi MPa bar

Nl/min

scfm

Flow rate

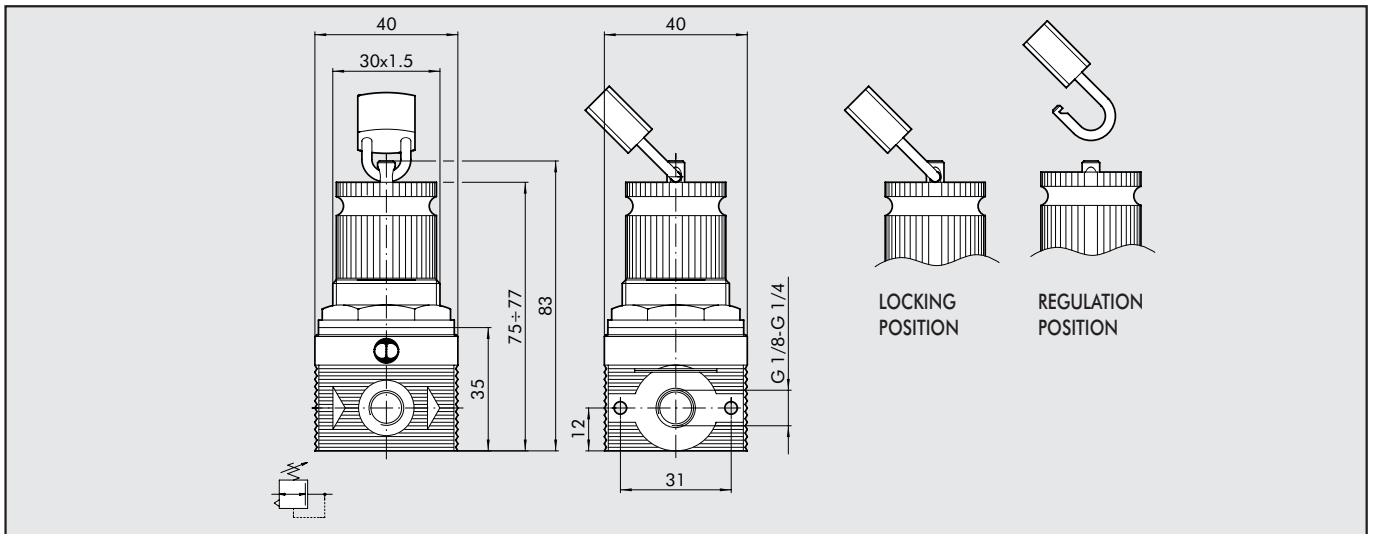**Department of Mechanics**

Turin Polytechnic

Pm   Pv   T   P   H₂O

test unit

• 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

40

30x1.5

75÷77

83

35

40

G 1/8-G 1/4

12

31

LOCKING POSITION

REGULATION POSITION

KEY TO CODES

| MR	BIT	KEY	1/8	02
ELEMENT	SIZE	TYPE	THREADED PORT	SETTING RANGE
MR	BIT	PADLOCKABLE	1/8 1/4	02 = 0÷2 bar 04 = 0÷4 bar 08 = 0÷8 bar 012 = 0÷12 bar

ORDERING CODES

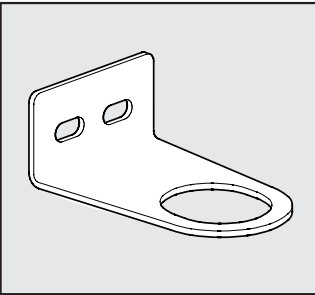| Code	Description
5110001	MR BIT KEY 1/8 02
5110002	MR BIT KEY 1/8 04
5110003	MR BIT KEY 1/8 08
5110004	MR BIT KEY 1/8 012
5210001	MR BIT KEY 1/4 02
5210002	MR BIT KEY 1/4 04
5210003	MR BIT KEY 1/4 08
5210004	MR BIT KEY 1/4 012
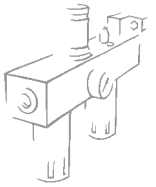
bit ACCESSORIES

PRESSURE GAUGE
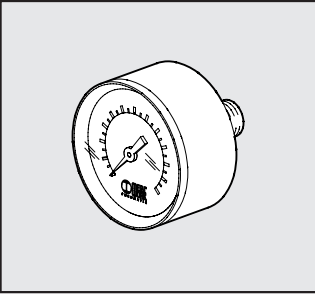
Code	Description
9700102	ACC.M 40 1/8 04
9700101	ACC.M 40 1/8 12

R/FR FIXING BRACKET

Code	Description
9200701	ACC. SF100 - BIT - ND 1/4

ASSEMBLY PLATE (PAIR)
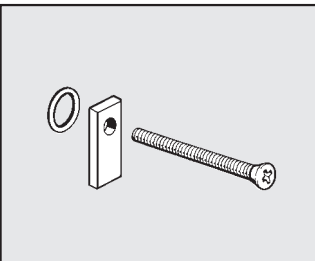
Code	Description
9170201	ACC PA 1/8 - 1/4 BIT

WALL MOUNTING BRACKET (PAIR)
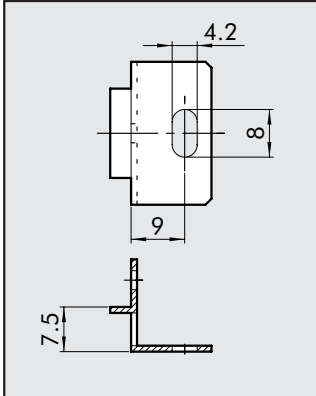
Code	Description
9170301	ACC SF 1/8 - 1/4 BIT

4.2

8

9

7.5

COVER DISASSEMBLY SPANNER
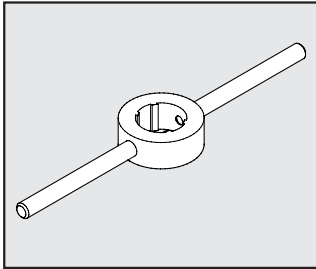
Code	Description
9170401	ACC CS CS BIT

REDUCER PLUG DISASSEMBLY SPANNER
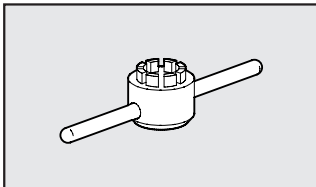
Code	Description
9170501	ACC CS OTR BIT

bit SPARE PARTS

COMPLETE POPPET FOR MR
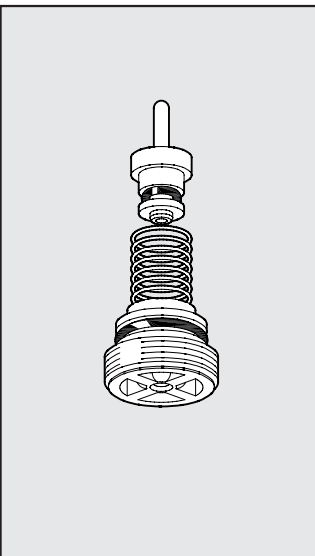
Code	Description
9250705	SPARES POPPET FOR MR

SPRING FOR MR
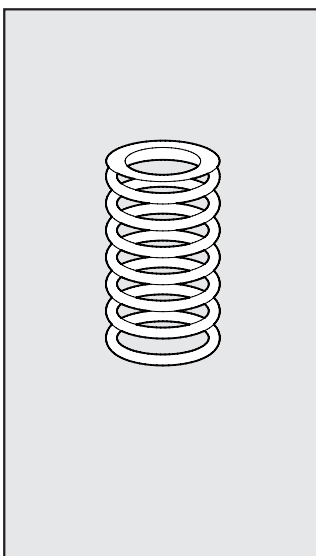
Code	Description
9250610	SPARES MO 02 BIT
9250611	SPARES MO 04 BIT
9250612	SPARES MO 08 BIT
9250613	SPARES MO 012 BIT