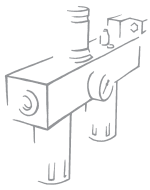
# bit PADLOCKABLE MICROREGULATOR

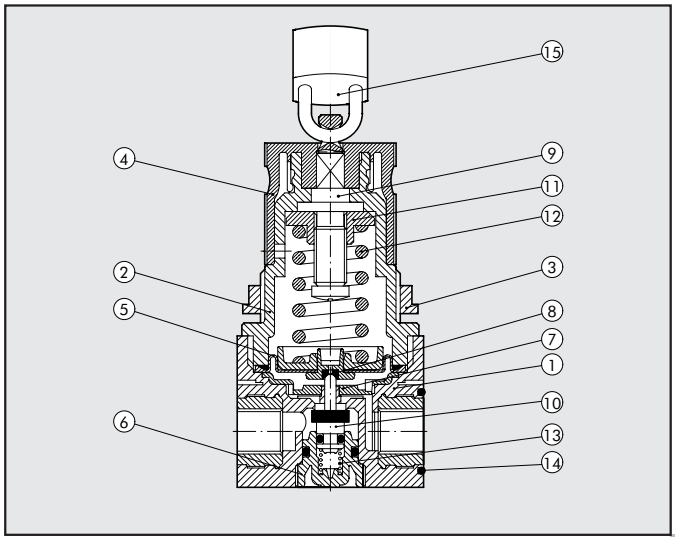


The Bit microregulator uses a rolling diaphragm system that ensures:
• stability of the pressure setting when the upstream pressure changes.
• high flow rate with reduced drops in pressure
• rapid relief of overpressures.
The padlockable microregulator has a pin with a hole in it that projects from the 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. | |

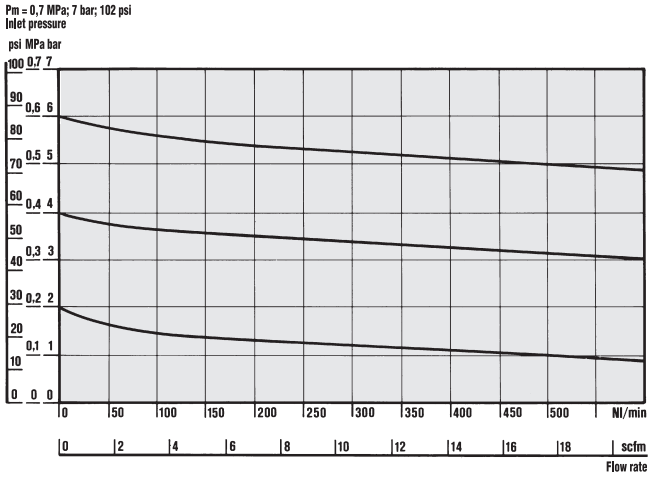
## COMPONENTS

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

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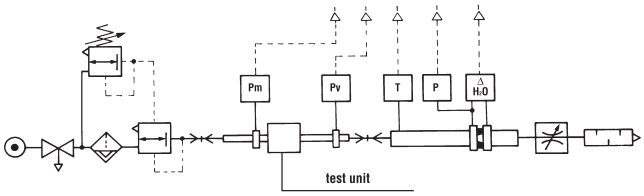
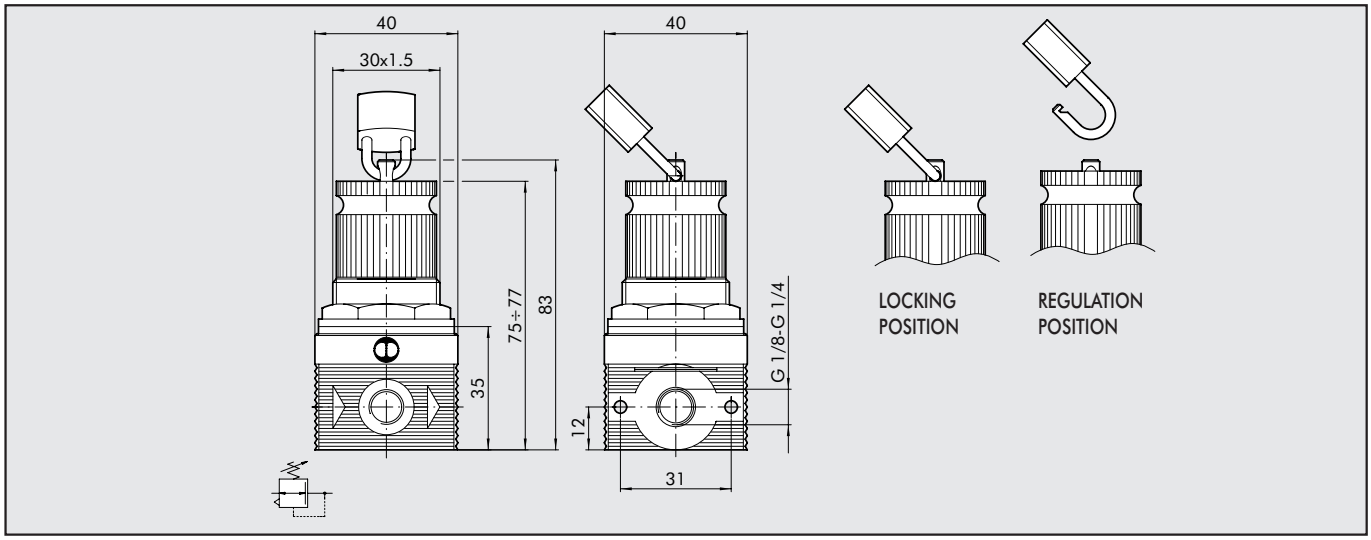



• Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

## DIMENSIONS



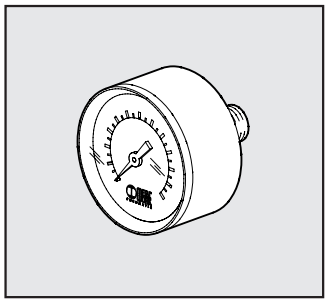

## KEY TO CODES

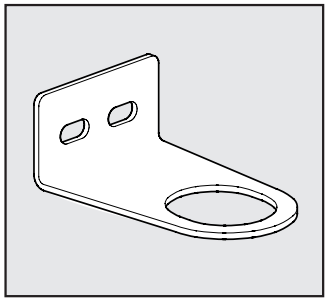
| MR | BIT | KEY | 1/8 | 02 |
|---|---|---|---|---|
| ELEMENT | SIZE | TYPE | THREADED PORT | SETTING RANGE |
| MR | BIT | PADLOCKABLE | 1/8<br>1/4 | 02 = 0÷2 bar<br>04 = 0÷4 bar<br>08 = 0÷8 bar<br>012 = 0÷12 bar |

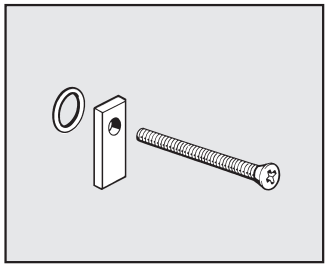
## ORDERING CODES

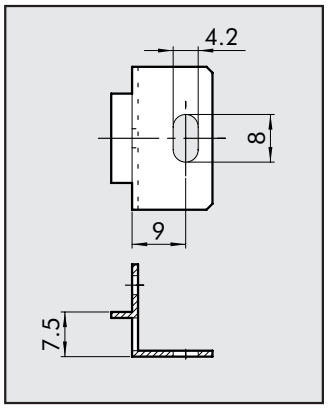
| Code | Description |
|---|---|
| 5110001 | MR BIT KEY 1/8 02 |
| 5110002 | MR BIT KEY 1/8 04 |
| 5110003 | MR BIT KEY 1/8 08 |
| 5110004 | MR BIT KEY 1/8 012 |
| 5210001 | MR BIT KEY 1/4 02 |
| 5210002 | MR BIT KEY 1/4 04 |
| 5210003 | MR BIT KEY 1/4 08 |
| 5210004 | MR BIT KEY 1/4 012 |

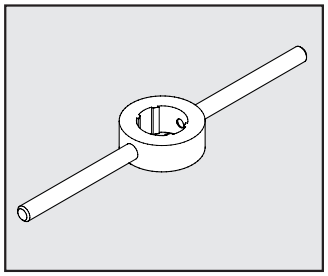
# bit ACCESSORIES

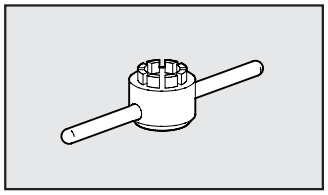
| PRESSURE GAUGE | Code | Description |
|---|---|---|
|  | 9700102 | ACC.M 40 1/8 04 |
| | 9700101 | ACC.M 40 1/8 12 |

| R/FR FIXING BRACKET | Code | Description |
|---|---|---|
|  | 9200701 | ACC. SF100 - BIT - ND 1/4 |

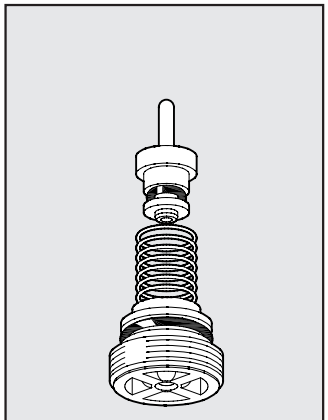
| ASSEMBLY PLATE (PAIR) | Code | Description |
|---|---|---|
|  | 9170201 | ACC PA 1/8 - 1/4 BIT |

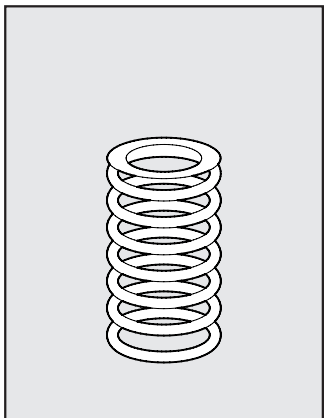
| WALL MOUNTING BRACKET (PAIR) | Code | Description |
|---|---|---|
|  | 9170301 | ACC SF 1/8 - 1/4 BIT |

| 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 |