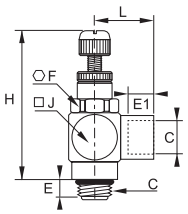
# Metal Regulators with External Adjustment

## 7190 Miniature Flow Regulator Exhaust, Male/Female BSPP and Metric Thread



Nickel-plated brass, NBR




| C | | E | E1 | F | H min | H max | J | L | kg |
|---|---|---|---|---|---|---|---|---|---|
| M5x0.8 | 7190 19 19 | 4 | 4 | 8 | 24 | 29 | 10 | 11 | 0.012 |
| G1/8 | 7190 10 10 | 5 | 8 | 13 | 39 | 44 | 15 | 17 | 0.044 |

# Flow Control Regulators

Parker Legris flow control regulators with polymer, nickel-plated brass or aluminium bodies, external or recessed adjustment screws, offer **precise adjustment, accuracy** and **compactness** providing the solution for all applications.

## Product Advantages

**Improved Productivity**

- Higher maximum flow than standard regulators
- Full flow with minimum pressure drop (model 7060)
- Optimal control of the cylinder rod speed
- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Reduce compressed air and energy consumption

**Accuracy & Performance**

- Precise adjustment for accurate flow regulation from initial to maximum opening
- Constant cylinder rod displacement speed
- Long-term stability of flow
- Reduced weight (polymer version)
- Mechanical strength and corrosion resistance with nickel-plated brass version

**Ergonomics & Large Range**

- External adjustment screw: easy to adjust without tooling and lockable
- Recessed adjustment screw: more compact and protects the adjustment mechanism
- Uni-directional: exhaust or inlet
- Bi-directional: adjustment of air flow in both directions
- 360° positioning
- NPT version on request



**Applications**

Pneumatics
Robotics
Semi-Conductors
Textile
Automotive Process
Packaging

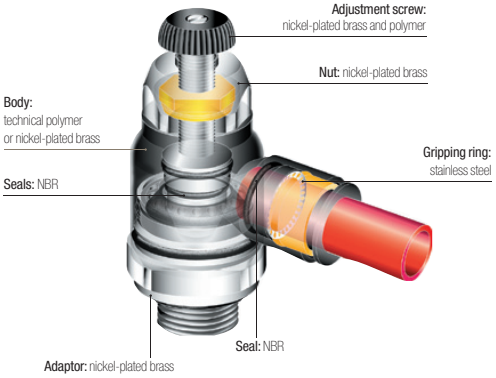
## Technical Characteristics

| | |
|---|---|
| **Compatible Fluids** | Compressed air<br>Other fluids: contact us |
| **Working Pressure** | 1 to 10 bar |
| **Working Temperature** | 0°C to +70°C |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Max. Tightening Torques (external adjustment screw)** | Threads | M3 x0.5 | M5 x0.8 | G1/8 | G1/4 | G3/8 | G1/2 |
| | daN.m | 0.06 | 0.16 | 0.8 | 1.2 | 3 | 3.5 |
| **Max. Tightening Torques (recessed adjustment screw)** | Threads | – | M5 x0.8 | G1/8 | G1/4 | G3/8 | G1/2 |
| | daN.m | – | 0.1 | 0.4 | 0.5 | 0.6 | 0.7 |

You will find all the flow rate characteristic curves (to 6 bar) for flow control regulators at the end of the chapter.

**Component Materials**




**Silicone-free**



Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

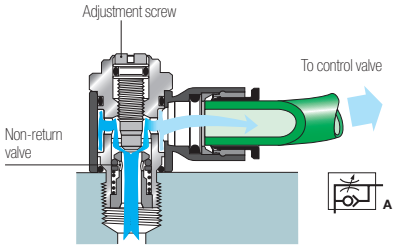
# Flow Control Regulators

## Operation

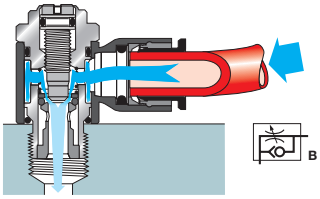
Parker Legris offers both uni-directional and bi-directional flow control regulators.
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.
The bi-directional models control the flow of air in both directions.
A more precise and constant flow regulation is obtained when the regulator is fitted directly onto the cylinder.

### Models with Recessed Adjustment

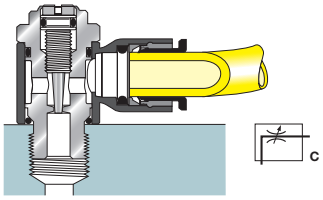
**Uni-Directional (Exhaust Version)**




**Uni-Directional (Supply Version)**

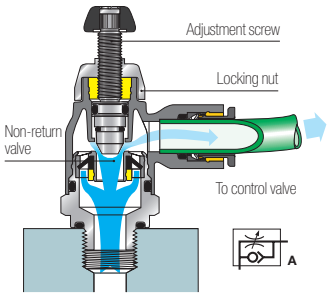



**Bi-Directional Version**

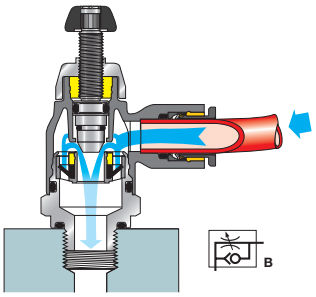



### Models with External Adjustment

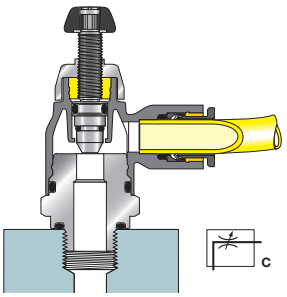
**Uni-Directional (Exhaust Version)**




**Uni-Directional (Supply Version)**

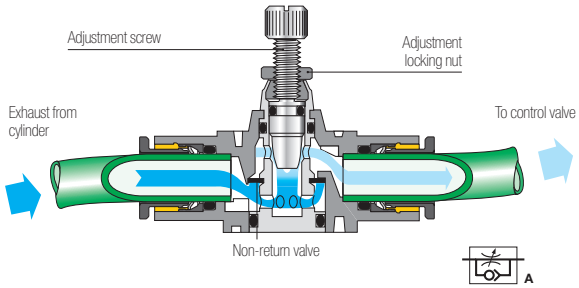



**Bi-Directional Version**

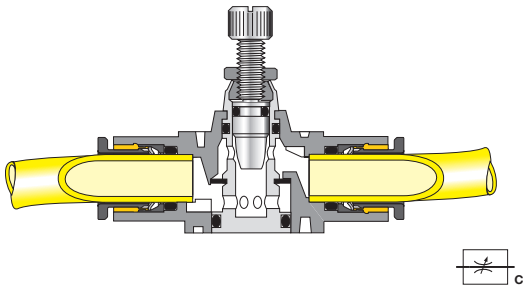



### In-Line Models

**Uni-Directional Version**




**Bi-Directional Version**




For instant visual identification, each Parker Legris flow control regulator version is identified by the related pneumatic symbol and by a letter:

- uni-directional regulation on exhaust: letter A
- uni-directional regulation on supply: letter B
- bi-directional regulation: letter C