

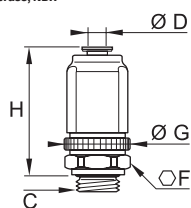
# In-Line Regulators with External Adjustment

## 7020

### Straight Flow Regulator Exhaust, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



| ØD | C    |                            | F  | G    | H<br>min | H<br>max | kg    |
|----|------|----------------------------|----|------|----------|----------|-------|
| 4  | G1/8 | <a href="#">7020 04 10</a> | 18 | 21.5 | 38.5     | 44       | 0.062 |
| 6  | G1/8 | <a href="#">7020 06 10</a> | 18 | 21.5 | 38.5     | 44       | 0.058 |
|    | G1/4 | <a href="#">7020 06 13</a> | 18 | 21.5 | 38.5     | 44       | 0.059 |
| 8  | G1/8 | <a href="#">7020 08 10</a> | 24 | 27   | 46.5     | 52.5     | 0.110 |
|    | G1/4 | <a href="#">7020 08 13</a> | 24 | 27   | 46.5     | 52.5     | 0.112 |

Flow Control Regulators

Function Fittings

# 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



Pneumatics  
Robotics  
Semi-Conductors  
Textile  
Automotive Process  
Packaging

Applications

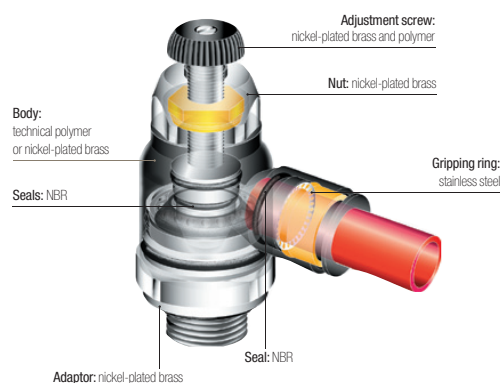
## Technical Characteristics

|                     |                                            |  |  |  |  |  |
|---------------------|--------------------------------------------|--|--|--|--|--|
| 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

# Flow Control Regulators

## Operation

Parker Legris offers both uni-directional and bi-directional flow control regulators.

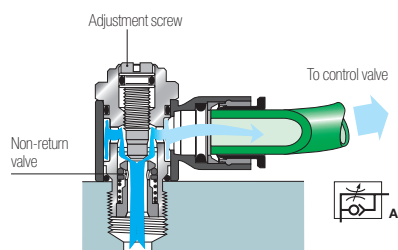
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.

The bi-directional models control the flow of air in both directions.

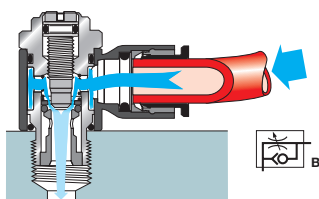
A more precise and constant flow regulation is obtained when the regulator is fitted directly onto the cylinder.

### Models with Recessed Adjustment

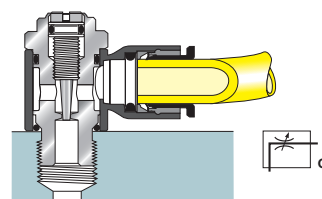
#### Uni-Directional (Exhaust Version)



#### Uni-Directional (Supply Version)

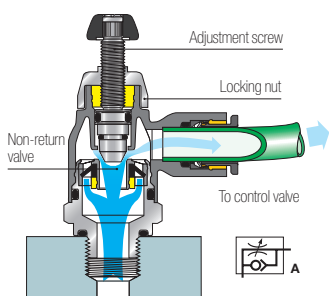


#### Bi-Directional Version

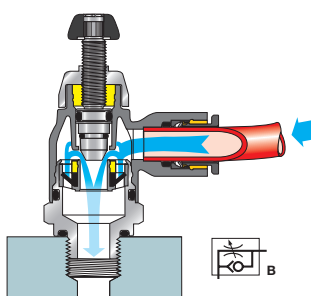


### Models with External Adjustment

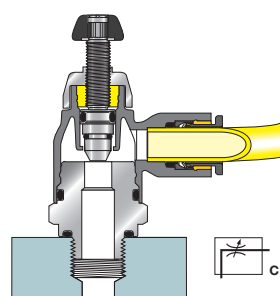
#### Uni-Directional (Exhaust Version)



#### Uni-Directional (Supply Version)

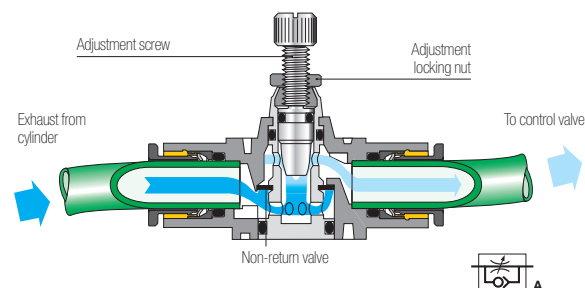


#### Bi-Directional Version

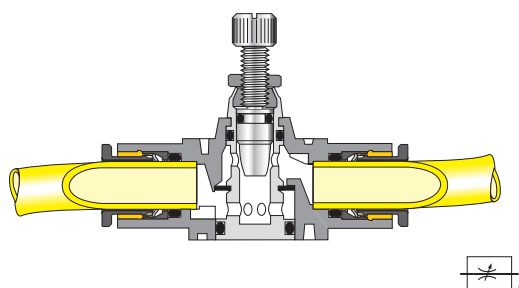


### In-Line Models

#### 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

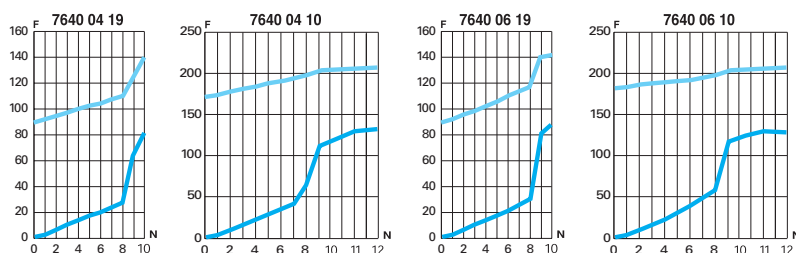
# Flow Characteristics (at 6 bar)

## for Flow Control Regulators

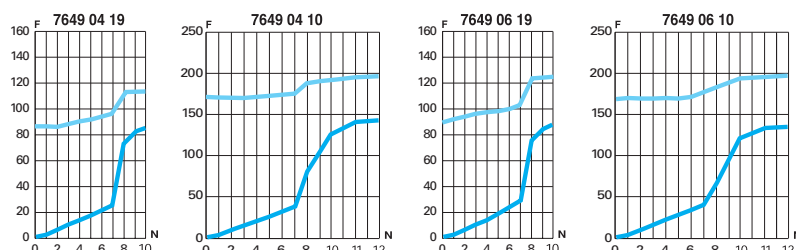


**7640**  
**7649**

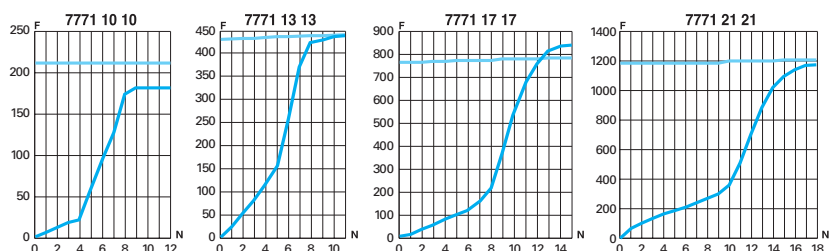
### 7640



### 7649



**7771**



**7020**

