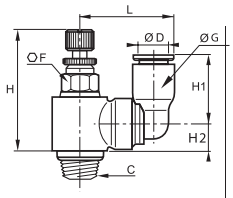
Miniature Regulators with Swivel Outlet and External Adjustment

7645 Miniature Swivel Outlet Flow Regulator Exhaust, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	H1	H2	J	L	kg
4	R1/8	7645 04 10	7	8.5	25	27.5	14	6	11.5	19.5	0.014
6	R1/8	7645 06 10	7	10.5	25	27.5	16	6	11.5	21.5	0.012

Pre-coated thread

Associated Products

All our flow control regulators are compatible with the range of polyamide and polyurethane tubing shown in Chapter 3.

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

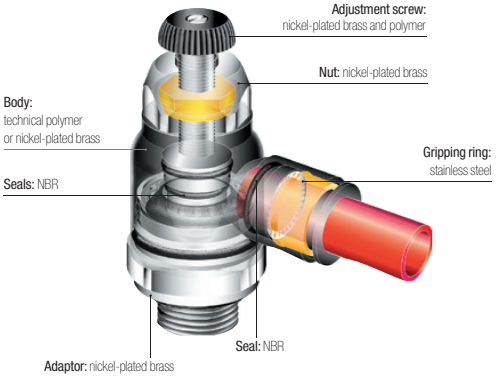
Technical Characteristics

Compatible Fluids	Compressed air 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

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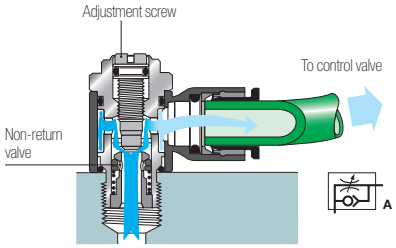
Flow Control Regulators

Operation

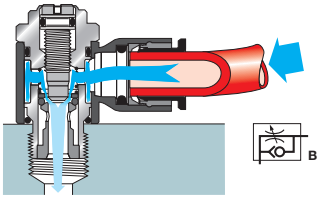
Parker Legris offers both uni-directional and bi-directional flow control regulators.
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.
The bi-directional models control the flow of air in both directions.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

Models with Recessed Adjustment

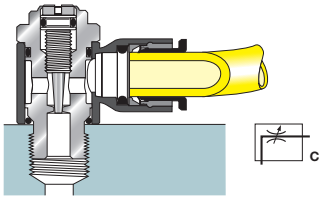
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

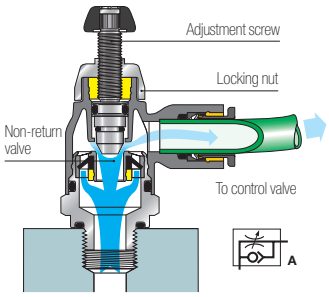


Bi-Directional Version

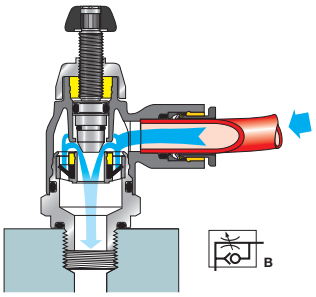


Models with External Adjustment

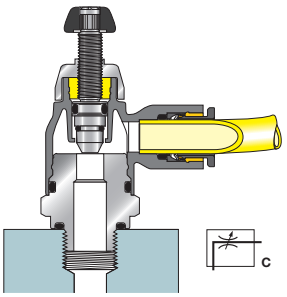
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

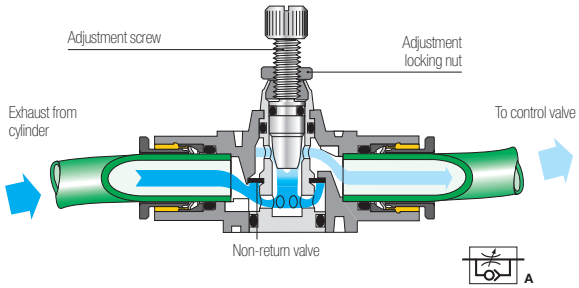


Bi-Directional Version

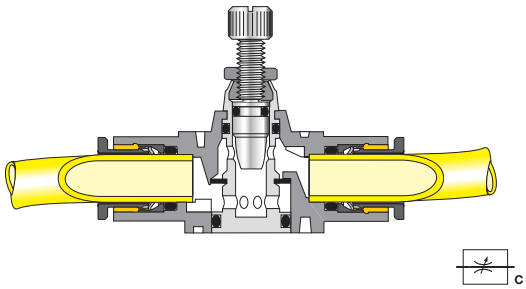


In-Line Models

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