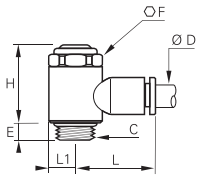
Regulators with Recessed Adjustment

7012 Bi-Directional Flow Regulator with Recessed Adjustment Screw, Male BSPP and Metric Thread





Technical polymer, nickel-plated brass, NBR

ØD	C		E	F	H	L	L1	kg
4	M5x0.8	7012 04 19	4	8	17.5	17	5	0.006
	G1/8	7012 04 10	5	13	25	19	7	0.018
6	M5x0.8	7012 06 19	4	8	17.5	19	5	0.007
	G1/8	7012 06 10	5	13	25	21	7	0.019
	G1/4	7012 06 13	8	17	26.5	22	9.5	0.036
8	G1/8	7012 08 10	5	13	25	26	7	0.020
	G1/4	7012 08 13	8	17	26.5	27	9.5	0.036
	G3/8	7012 08 17	7.5	20	37.5	29	11	0.070

Each pneumatic function fitting is identified by:
- the item type
- the tube outside diameter
- the thread or 2nd tube outside diameter

7010 06 10
Item type | Tube O.D. | Thread code

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

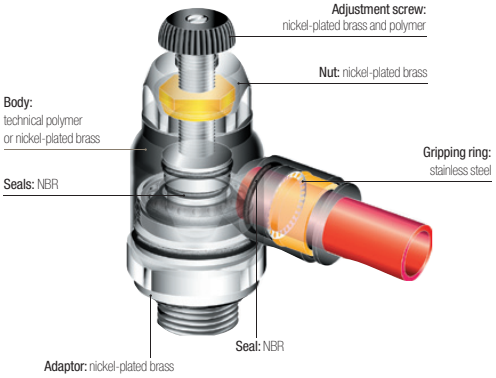
Technical Characteristics

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

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

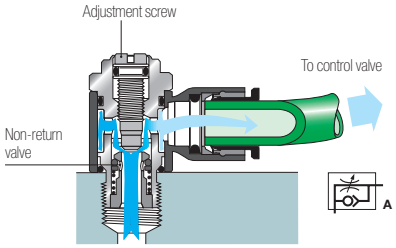
Flow Control Regulators

Operation

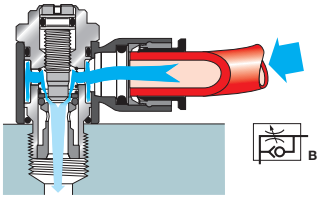
Parker Legris offers both uni-directional and bi-directional flow control regulators.
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.
The bi-directional models control the flow of air in both directions.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

Models with Recessed Adjustment

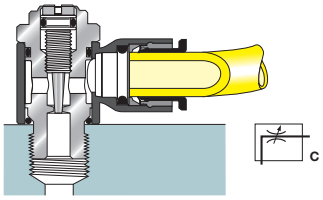
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

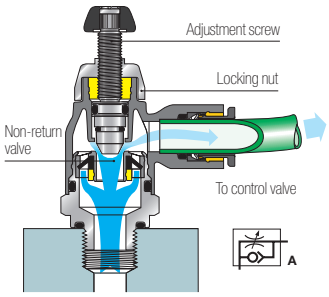


Bi-Directional Version

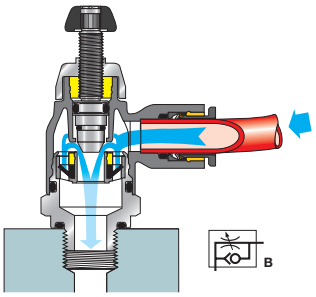


Models with External Adjustment

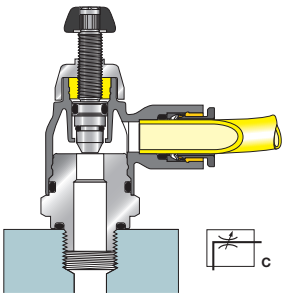
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

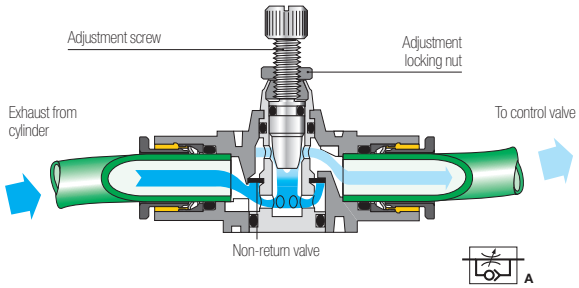


Bi-Directional Version

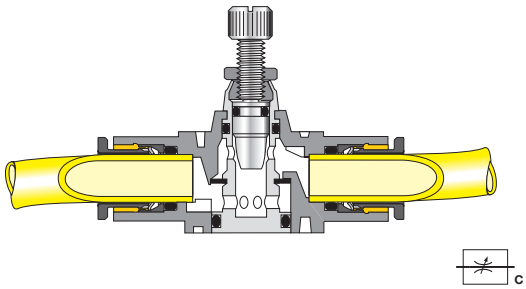


In-Line Models

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:

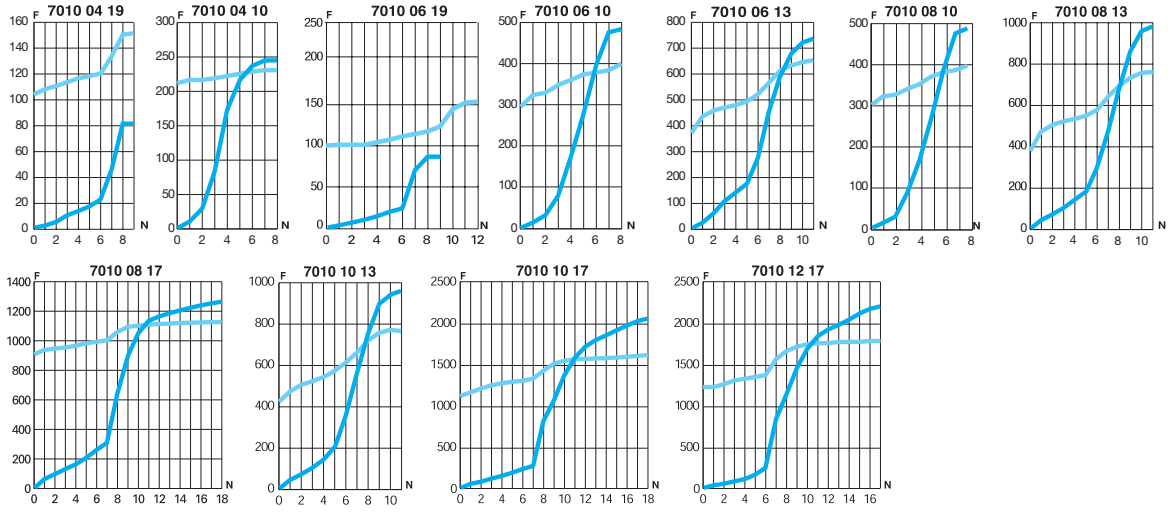
- uni-directional regulation on exhaust: letter A
- uni-directional regulation on supply: letter B
- bi-directional regulation: letter C

Flow Characteristics (at 6 bar)
for Flow Control Regulators

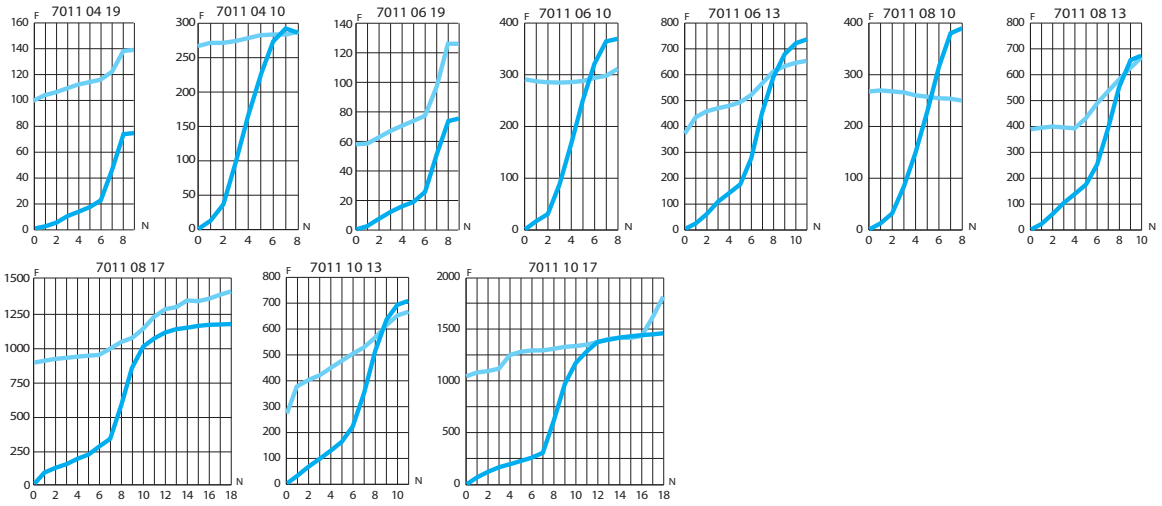


7010
7011
7012

7010



7011



7012

Flow characteristics for model 7012:
- exhaust version (see model 7010, direction of adjustment)
- supply version (see model 7011, direction of adjustment)

6 bar

Direction of adjustment
Return

F: Flow in Nl/min
N: Number of turns

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