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

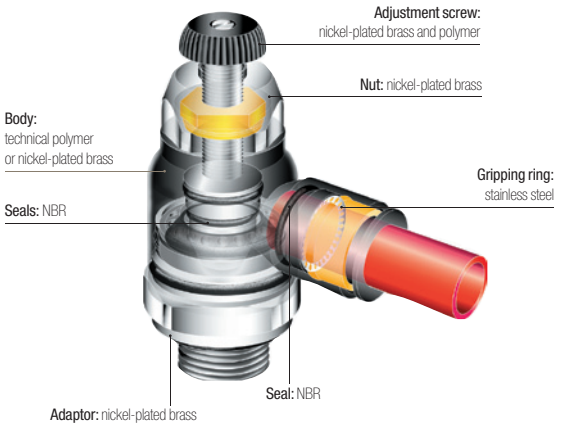
Technical Characteristics

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

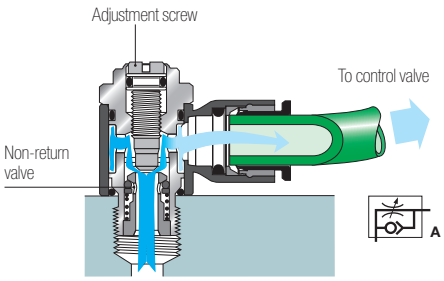
Flow Control Regulators

Operation

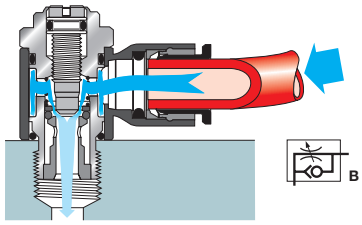
Parker Legris offers both uni-directional and bi-directional flow control regulators.
The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction.
The bi-directional models control the flow of air in both directions.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

Models with Recessed Adjustment

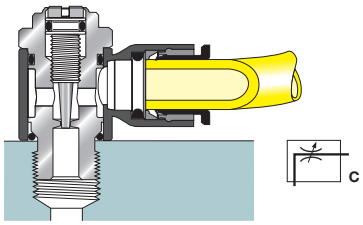
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

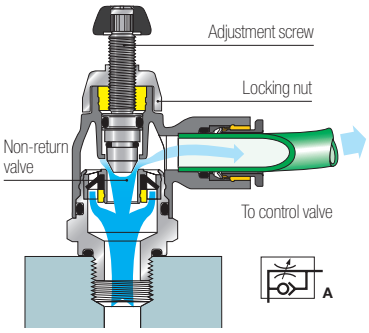


Bi-Directional Version

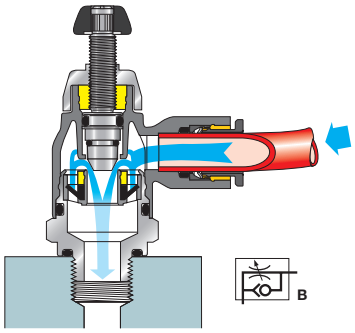


Models with External Adjustment

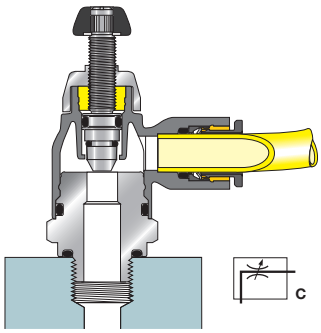
Uni-Directional (Exhaust Version)



Uni-Directional (Supply Version)

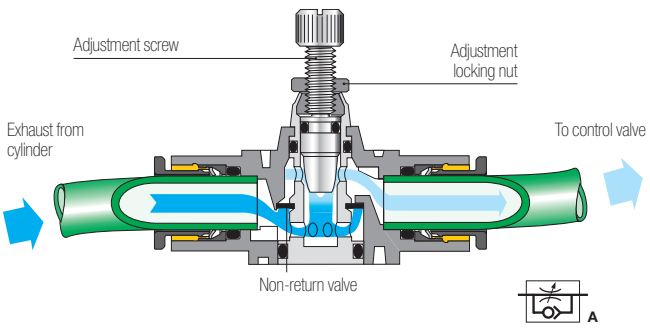


Bi-Directional Version

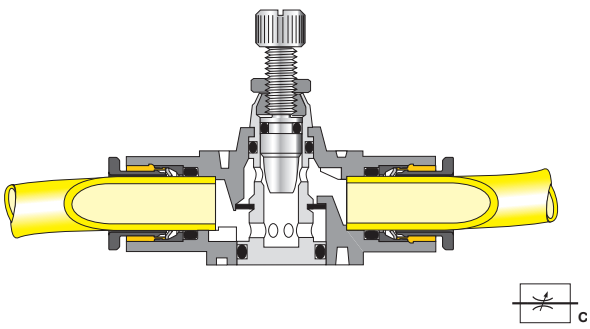


In-Line Models

Uni-Directional Version



Bi-Directional Version



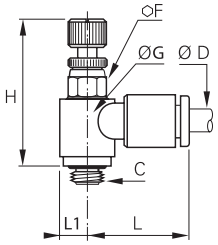
For instant visual identification, each Parker Legris flow control regulator version is identified by the related pneumatic symbol and by a letter:

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

Miniature Regulators with External Adjustment

7660 Miniature Flow Regulator Exhaust, Male BSPP and Metric Thread

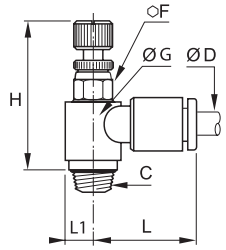
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
3	M3x0.5	7660 03 09	6	9	23.5	26	17	4.5	0.007
	M5x0.8	7660 03 19	6	9	23.5	26	17	4.5	0.006
4	M3x0.5	7660 04 09	6	9	23.5	26	16.5	4.5	0.007
	M5x0.8	7660 04 19	6	9	23.5	26	17	4.5	0.006
	G1/8	7660 04 10	7	11.5	27	29.5	18	6	0.012
6	M5x0.8	7660 06 19	6	9	23.5	26	18	4.5	0.007
	G1/8	7660 06 10	7	11.5	27	29.5	18.5	6	0.012
	G1/4	7660 06 13	8	12	30	32.5	19	6	0.019
8	G1/8	7660 08 10	13	14	26.5	31	26	7	0.021
	G1/4	7660 08 13	16	19	29	34	27.5	9.5	0.033
	G3/8	7660 08 17	20	23	36	42	29	11.5	0.062

7665 Miniature Flow Regulator Exhaust, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR

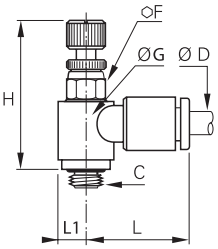


ØD	C		F	G	H min	H max	L	L1	kg
4	R1/8	7665 04 10	7	11.5	25	27.5	18	6	0.012
6	R1/8	7665 06 10	7	11.5	25	27.5	18.5	6	0.012
	R1/4	7665 06 13	8	13.5	27.5	30	19	7	0.019
	R3/8	7665 06 17	17	13.5	31.5	34	19	7	0.025
8	R1/8	7665 08 10	13	14	24	28.5	26	7	0.021
	R1/4	7665 08 13	16	19	25	29	27.5	9.5	0.033
	R3/8	7665 08 17	20	23	30	36	29	11.5	0.061

Pre-coated thread

7669 Miniature Flow Regulator Supply, Male BSPP and Metric Thread

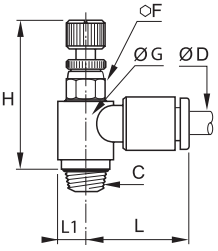
Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
3	M3x0.5	7669 03 09	6	9	23.5	26	17	4.5	0.008
	M5x0.8	7669 03 19	6	9	23.5	26	17	4.5	0.007
4	M5x0.8	7669 04 19	6	9	23.5	26	17	4.5	0.006
	G1/8	7669 04 10	7	11.5	27	29.5	18	6	0.012
6	M5x0.8	7669 06 19	6	9	23.5	26	18	4.5	0.007
	G1/8	7669 06 10	7	11.5	27	29.5	18.5	6	0.013
	G1/4	7669 06 13	8	12	30	32.5	19	6	0.019
8	G1/8	7669 08 10	13	14	26.5	31	26	7	0.021
	G1/4	7669 08 13	16	19	29	34	27.5	9.5	0.033
	G3/8	7669 08 17	20	23	36	42	29	11.5	0.063

7668 Miniature Flow Regulator Supply, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR



ØD	C		F	G	H min	H max	L	L1	kg
4	R1/8	7668 04 10	7	11.5	25	27.5	18	6	0.011
6	R1/8	7668 06 10	7	11.5	25	27.5	18.5	6	0.012
	R1/4	7668 06 13	8	13.5	27.5	30	19	7	0.019
8	R1/8	7668 08 10	13	14	24	28.5	26	7	0.020
	R1/4	7668 08 13	16	19	25	29	27.5	9.5	0.032
	R3/8	7668 08 17	20	23	30	36	29	11.5	0.061

Pre-coated thread