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



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

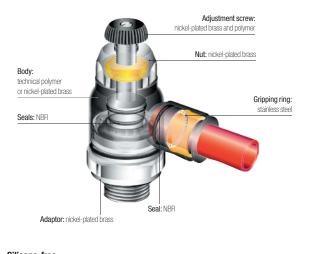
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: contact us
Working Pressure	1 to 10 bar
Working Temperature	0°C to +70°C

Max. Tightening Torques	Threads	M3 x0.5	M5 x0.8	G1/8	G1/4	G3/8	G1/2
(external adjustment screw)	daN.m	0.06	0.16	0.8	1.2	3	3.5
Max. Tightening Torques	Threads	-	M5 x0.8	G1/8	G1/4	G3/8	G1/2
(recessed adjustment screw)	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

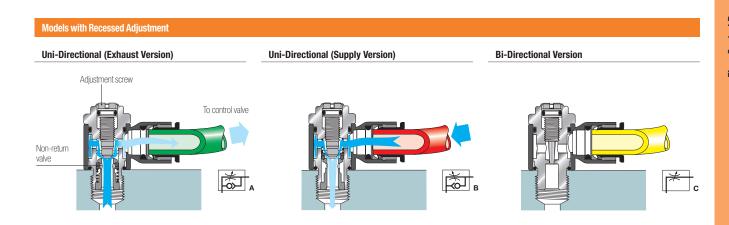
Operation

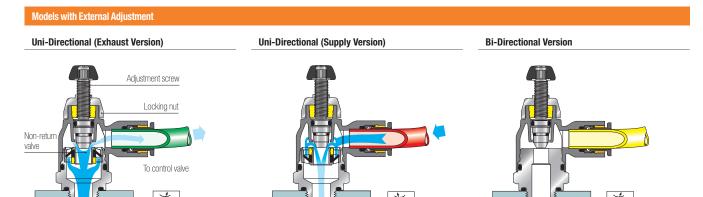
Parker Legris offers both uni-directional and bi-directional flow control regulators.

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.





Uni-Directional Version Bi-Directional Version Adjustment screw Adjustment To control valve Exhaust from cylinder Non-return valve

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

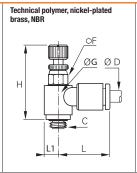
In-Line Models



Regulators with External Adjustment

7662 Bi-Directional Miniature Flow Regulator, Male BSPP and Metric Thread

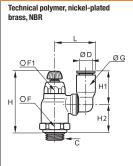




ØD	C		ı	F	G	min	max	L	L1	kg
4	M5x0.8	7662 04 19	(6	9	23.5	26	17	4.5	0.007
4	G1/8	7662 04 10	-	7	11.5	27	29.5	18	6	0.013
	M5x0.8	7662 06 19	(6	9	23.5	26	18	4.5	0.010
6	G1/8	7662 06 10	-	7	11.5	27	29.5	18.5	6	0.013
	G1/4	7662 06 13	}	8	12	30	32.5	19	6	0.019

7040 Compact Flow Regulator Swivel Outlet Exhaust, Male BSPP Thread

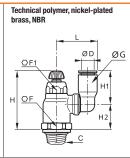




ØD	C		F	F1	G	H min	H max	H1	H2	L	kg
0	G1/8	7040 06 10	16	10	10.5	38	44	16	18	23.5	0.024
6	G1/4	7040 06 13	16	10	10.5	36.5	42.5	16	16.5	23.5	0.025
	G1/8	7040 08 10	19	14	13.5	41.5	48	23	19	28	0.037
8	G1/4	7040 08 13	19	14	13.5	41.5	48	23	19.5	28	0.039
	G3/8	7040 08 17	19	14	13.5	41.5	48	23	17.5	28	0.020
10	G1/4	7040 10 13	23	17	16	45.5	53.5	26.5	21	35	0.051
10	G3/8	7040 10 17	23	17	16	45.5	54	26.5	21.5	35	0.063
12	G3/8	7040 12 17	23	17	19	45.5	54	30.5	21.5	38	0.066
	G1/2	7040 12 21	24	17	19	45.5	54	30.5	21	38	0.071

7045 Compact Flow Regulator Swivel Outlet Exhaust, Male BSPT Thread

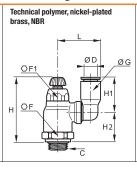




ØD	C		F	F1	G	min	max	H1	H2	L	kg
6	R1/4	7045 06 13	16	10	10.5	36.5	42.5	16	16.5	23.5	0.030
	R1/8	7045 08 10	19	14	13.5	40	46	23	17	28	0.014
8	R1/4	7045 08 13	19	14	13.5	40	46	23	17	28	0.043
	R3/8	7045 08 17	19	14	13.5	40	46	23	17	28	0.044
10	R1/4	7045 10 13	23	17	16	43.5	51.5	26.5	19	35	0.062
10	R3/8	7045 10 17	23	17	16	43.5	51.5	26.5	19	35	0.065
12	R3/8	7045 12 17	23	17	19	43.5	51.5	31	19	38	0.065
	R1/2	7045 12 21	23	17	19	43.5	51.5	31	19	38	0.070
Pre-coa	ated thread										

7041 Compact Flow Regulator Swivel Outlet Supply, Male BSPP Thread





ØD	C	•	F	F1	G	H min	H max	H1	H2	L	kg
6	G1/4	7041 06 13	16	10	10.5	36.5	42.5	16	16.5	23.5	0.024
0	G1/8	7041 08 10	19	14	13.5	41.5	48	23	19	28	0.037
8	G1/4	7041 08 13	19	14	13.5	41.5	48	23	19.5	28	0.039