# **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**

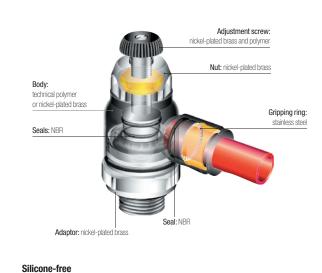
Improved Productivity	Higher maximum flow than standard regulators Full flow with minimum pressure drop (model 7060) Optimal control of the cylinder rod speed 100% leak-tested in production Date coding to guarantee quality and traceability Reduce compressed air and energy consumption					
Accuracy &	Precise adjustment for accurate flow regulation from initial					
Performance	to maximum opening					
	Constant cylinder rod displacement speed	715				
	Long-term stability of flow					
	Reduced weight (polymer version)					
	Mechanical strength and corrosion resistance with nickel-plated brass version	\$				
Ergonomics &	External adjustment screw: easy to adjust without tooling					
Large Range	and lockable					
Earge hange	Recessed adjustment screw: more compact and protects the adjustment mechanism					
	Uni-directional: exhaust or inlet	Ser				
	Bi-directional: adjustment of air flow in both directions					
	360° positioning	Auton				
	NPT version on request					

Pneumatics Robotics emi-Conductors Textile motive Process Packaging

Applications

### **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** 

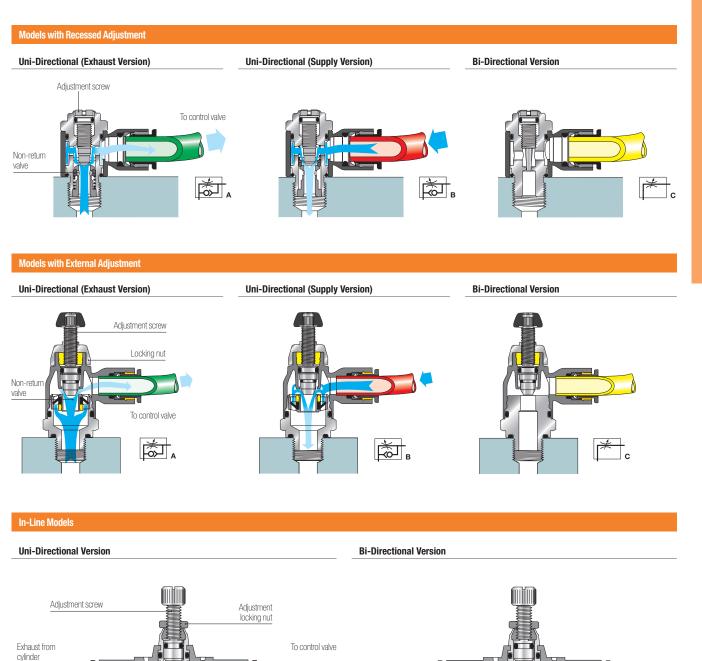
# **Flow Control Regulators**

## 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.



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

tä,

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

Non-return valve

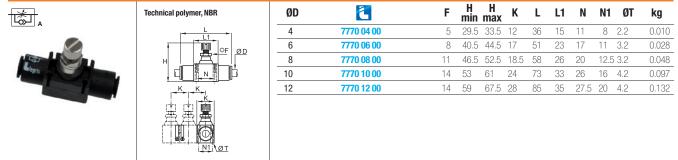
• bi-directional regulation: letter C



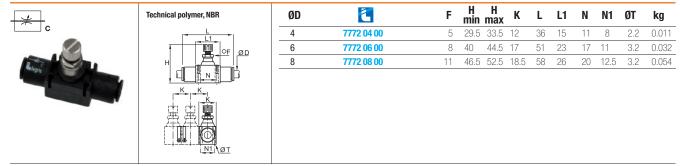


# In-Line Regulators with External Adjustment

#### 7770 In-Line One-Way Flow Regulator

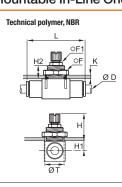


#### 7772 **Bi-Directional In-Line Flow Regulator**



#### 7776 Panel-Mountable In-Line One-Way Flow Regulator





ØD	٤.	F	F1	Н	H max	H1	H2	K	L	ØT	kg
4	7776 04 00*	14	-	21.5				6	36	10.5	0.017
6	7776 06 00*	19	-	27.5	32.5	7.5	13.5	7	51	16.5	0.042
8	7776 08 00	24	11	28.5	34.5	9	13.5	7	58	18.5	0.069
10	7776 10 00	30	14	29.5	38.5	11.5	13.5	7	73	24.5	0.136
12	7776 12 00	32	14	32	42	12.5	15.5	8	85	27.5	0.185

\*Ultrafine adjustment

7771

# لچًا

In-Line One-Way Flow Regulator, Female BSPP Thread							
	Technical polymer, nickel-plated brass, NBR	C	1				
	- L	G1/8	7771 10 10				
		G1/4	7771 13 13				
		G3/8	7771 17 17				
		G1/2	7771 21 21				

C	1	F	F1	H min	H max	L	L1	Ν	N1	ØT	kg
G1/8	7771 10 10	13	8	39.5	44.5	68.5	23	17	11	3.2	0.043
G1/4	7771 13 13	16	11	44	50	83	26	20	12.5	3.2	0.103
G3/8	7771 17 17	19	14	52	61	97	33	26	16	4.2	0.160
G1/2	7771 21 21	24	14	57.5	67.5	121	35	27.5	20	4.2	0.260

#### 7000 **Joining Clips**

0				
	Technical polymer	ØD	٤.	kg
MM		4	7000 00 05	0,004
		6	7000 00 05	0,004
		8	7000 00 05	0,004
		10	7000 00 06	0,009
		12	7000 00 06	0,009
	ብፁ ብፁ			