LEGRIS FLOW CONTROL REGULATORS



Legris flow regulators combine precision, consistent adjustment and compactness to deliver the best performance in pneumatic installations, whether mounted directly on the cylinder or in line.

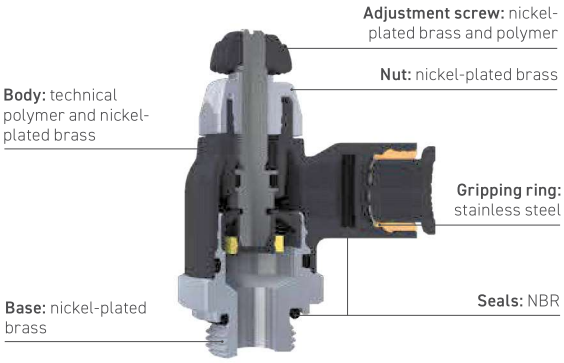
VERSION **TECHNICAL POLYMER FLOW CONTROL REGULATORS**

Technical specifications

- **Fluids:** compressed air
- **Operating pressure:** 1 to 10 bar
- **Operating temperature:** 0°C to +70°C
- **Tube diameter:** 4 to 12 mm
- **Connection:** M3 to M5 – G1/8 to G1/2 (BSPP) – RP1/8 to 1/2 (BSPT)
- **Regulations:** RoHS, REACH, PED

Performance depends on the fluid, material and tube used.

Component materials



Benefits

- **Best flow rate on the market,** optimising the speed of movement of the cylinder rod for increased productivity.
- **Precise and gradual adjustment,** ensuring flow stability over time and greater application accuracy.
- **Optimised ergonomics thanks to:**
  • A visible screw for easy adjustment without tools, with a locking mechanism to secure the setting.
  • A more compact recessed screw offering enhanced security.
- **360° orientation,** enabling flexible and simplified installation in all installations.
- **Visual identification on the product** (pneumatic symbol and letter A/B/C) for quick identification of the function.

Recommended applications



Precisely adjusts the air flow in the cylinder chamber for optimal control of the rod speed



Precisely adjusts the air flow to suit different machine equipment

Installation guide

Maximum tightening torque (daN.m) *external screw*	Threads	M3x0.5	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.06	0.16	0.8	1.2	3	3.5
Maximum tightening torque (daN.m) *recessed screw*	Threads	-	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	-	0.1	0.4	0.5	0.6	0.7

VERSION **NICKEL-PLATED BRASS/TREATED ALUMINIUM**

Technical specifications

Fluids: compressed air

Operating pressure: 1 to 10 bar

Operating temperature: -25°C to +70°C

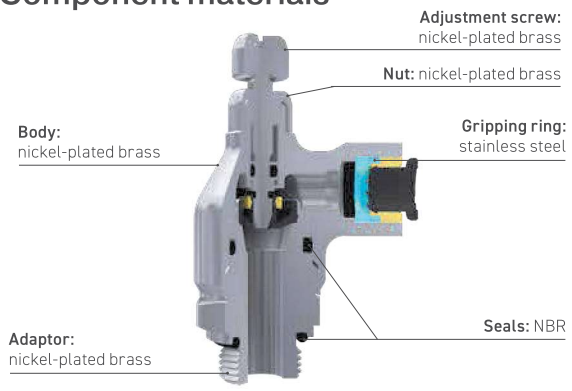
Tube diameter: 4 to 14 mm

Connection: M5 – G1/8 to G1/2 (BSPP)

Regulations: RoHS, REACH, PED

Performance depends on the fluid, material and tube used.

Component materials



Benefits

Nickel-plated brass flow regulators offer the same advantages as the technical polymer version but **can be used in aggressive environments**.

Installation guide

Maximum tightening torque (daN.m) *external screw*	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5
Maximum tightening torque (daN.m) *recessed screw*	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.1	0.4	0.5	0.6	0.7

VERSION **STAINLESS STEEL FLOW REGULATORS**

Technical specifications

Fluids: compressed air

Operating pressure:
Regulators: 1 to 10 bar
In-line regulators: 1 to 40 bar

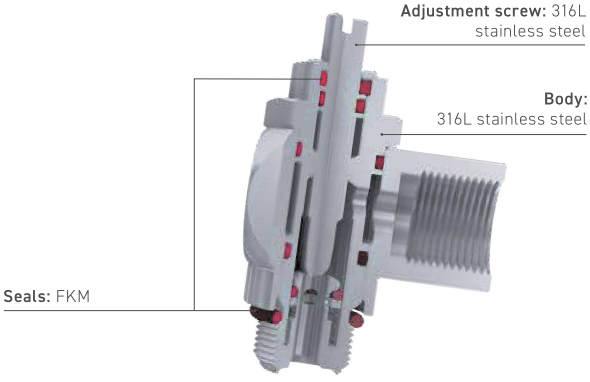
Operating temperature:
Regulators: 0°C to +70°C
In-line regulators: -15°C to +120°C

Connection: M5 - G1/8 to G1/2 (BSPP)

Regulations: RoHS, REACH, PED

Performance depends on the fluid, material and tube used.

Component materials



Benefits

Stainless steel flow regulators offer the same advantages as the technical polymer version but **can be used in aggressive and corrosive environments**.

Installation guide

Maximum tightening torque (daN.m) *external screw*	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5

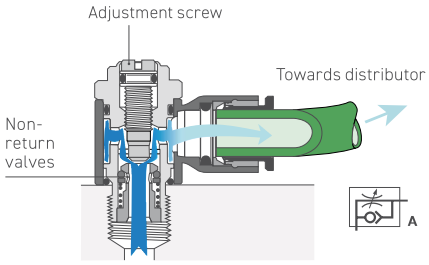
LEGRIS FLOW CONTROL REGULATORS

Operating principle

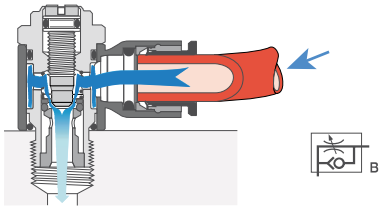
Depending on the model, Legris flow control regulators are either unidirectional or bidirectional.
Unidirectional in type, they regulate air flow in one direction by means of an adjustable restriction and allow air to pass freely in the other direction.
Bidirectional, they allow the air flow to be adjusted in both directions.
A more precise and consistent flow rate adjustment is achieved with a regulator mounted on the cylinder exhaust.

RECESSED SCREW MODELS

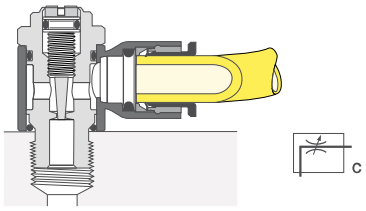
Unidirectional exhaust model



Unidirectional supply model

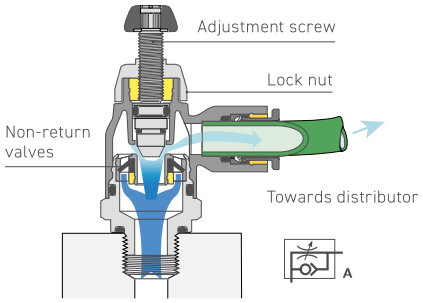


Bidirectional model

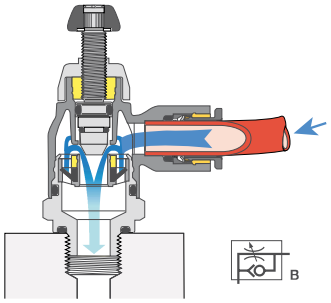


EXTERNAL SCREW MODELS

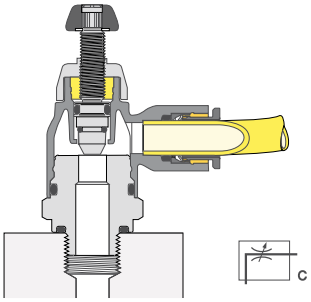
Unidirectional exhaust model



Unidirectional supply model

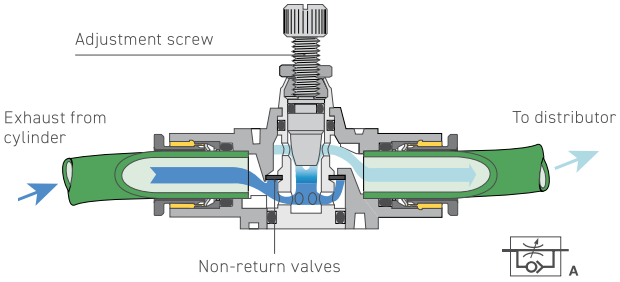


Bidirectional model

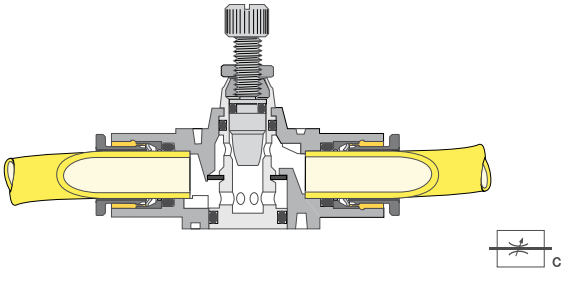


IN-LINE MODELS

Unidirectional model



Bidirectional model



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

- Unidirectional adjustment on exhaust: letter A
- Unidirectional adjustment on supply: letter B
- Bidirectional adjustment: letter C