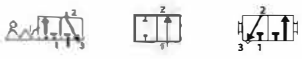
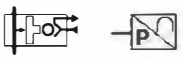
HOW TO CHOOSE YOUR FUNCTION FITTING

What functions do you require for your pneumatic system?

OBJECTIVES	WHAT WOULD YOU LIKE TO DO?	LEGRIS FUNCTION FITTINGS	SYMBOLS
PROTECT YOUR INSTALLATION	Ensure that the load is maintained during an emergency stop	**Blocking fittings**	
	Allow pressure to build up gradually when restarting the installation, thereby protecting it from shocks.	**Soft start fittings**	
	Convey compressed air in one direction only, blocking its return in the event of a cut-off	**Non-return valves**	
	Performs the same function as a non-return valve while allowing the opening pressure to be adjusted.	**Adjustable non-return valves**	
	Three functions in one product: block, regulate and purge compressed air	**Piloted non-return valves**	
IMPROVE YOUR INSTALLATION	Regulate air flow, thanks to an adjustable pass diameter, to control the speed of a cylinder rod.	**Flow control regulators**	
	Allow exhaust air to pass unrestricted into the atmosphere in order to accelerate the rod of a cylinder.	**Quick-release valves**	
	Regulate pressure in applications requiring control of cylinder force	**Pressure regulator fittings**	
	Reduce the pressure consumed in part of the machine in order to save energy	**Pressure reducer fittings**	
	Partially isolate a circuit without draining the entire system	**Snap fittings**	
	Purge a pneumatic circuit	**Manually operated couplers and fittings**	
	Issue a pneumatic or electrical signal as soon as the pressure falls below its control threshold.	**Sensor fittings with detection**	
	Reducing the noise level of the pneumatic network	**Silencers**	

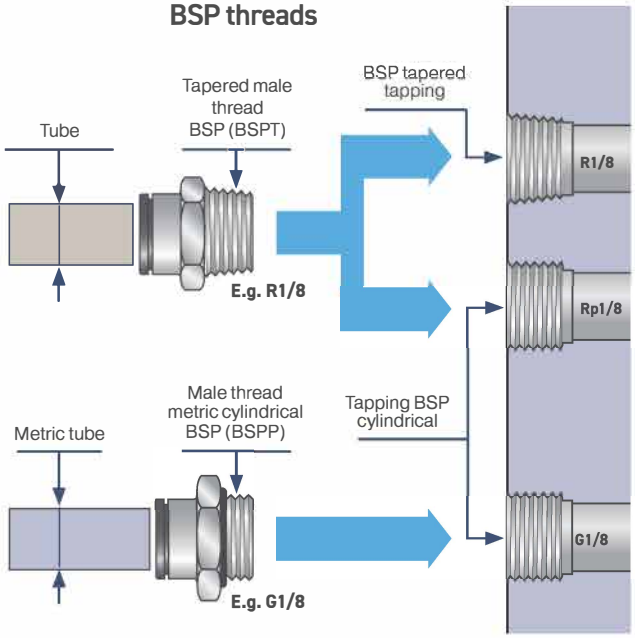
Do you have any compliance requirements?

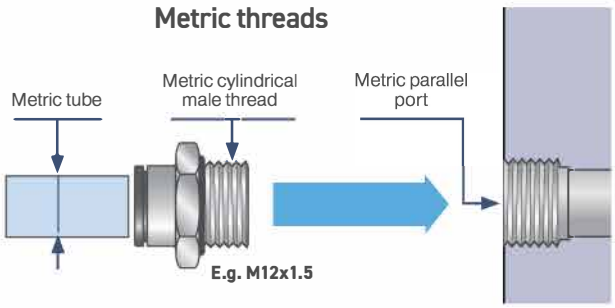
- All our products comply with RoHS and REACh standards.
- Legris function fittings used on the safety control line, known as “Safety” fittings, comply with Machinery Directive 2006/42/EC and ISO 13849-1 and are identified by the following logo:
- All our processes comply with ISO 9001 and ISO 14001 standards.

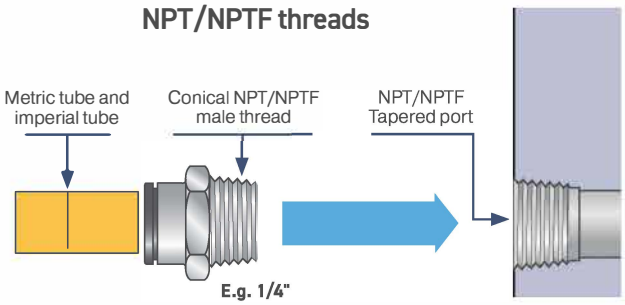
For a complete list of our certificates, *please click here.*

HOW TO CHOOSE YOUR FUNCTION FITTING

How should you install your fitting?







Part number identification

Part numbers are chosen according to a mnemonic code.
Each fitting is identified by:
- the item type according to function (4 digits);
- the nominal diameter of the tube (2 digits) corresponds to the external diameter of the tube;
- the thread code. If the product does not have a thread, the code used is 00.

7010 **06** **10**

Function of the article

Nominal diameter

= outer diameter of the tube

Metric	Code
4 mm	04
6 mm	06
.../...	
12 mm	12

Thread code

Thread	Code
M5x0.8	19
1/8"	10
1/4"	13
3/8"	17
1/2"	21

Designation	Item code
Blocking fittings 	788x Series
Soft start fittings 	786x Series 787x Series
Non-return valves	
• polymer 	798x Series 799x Series
• adjustable 	793x Series
• stainless steel 	489x Series
• piloted 	789x Series
Quick-exhaust valves 	7899 Series 797x Series

Designation	Item code
Pressure regulator fittings 	730x Series
Pressure reducers 	DRVx Series
Snap fittings 	792x Series 796x Series
Manually operated fittings and valves 	780x Series 0669 Series
Sensor fittings for detection 	781x Series 782x Series
Silencers 	067x Series 068x Series

Designation	Item code
Flow regulators	
• **polymer** countersunk screw 	701x Series
• **polymer** external screw 	706x Series
• miniature **polymer** external screw 	763x, 764x, and 766x series
• **polymer** compact and swivelling 	704x Series; 764x Series
• **polymer** external screw 	777x Series
• **Nickel-plated brass** countersunk screw 	713x, 714x and 716x Series
• **Nickel-plated brass** compact with external screw 	710x Series; 711x Series; 768x Series
• **Nickel-plated brass** miniature with external screw 	718x Series; 719x Series
• **brass and stainless steel** with external screw or in-line 	781x Series; 782
• **aluminium** in line 	717x Series

LEGRIS BLOCKING FITTINGS



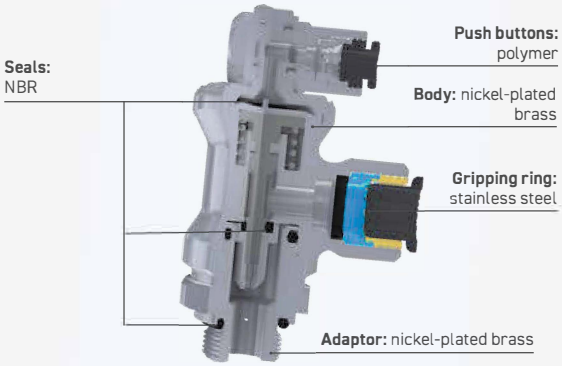
In the event of a drop in control pressure, the reliability of Legris blocking fittings ensures operator safety and protects installations by cutting off the compressed air supply.

Technical specifications

- **Fluids:** compressed air
- **Operating pressure:** 1 to 10 bar
- **Operating temperature:** -20°C to +80°C
- **Tube diameter:** 6 to 12 mm
- **Connection:** G1/8 to G1/2 (BSPP) – R1/8 to R1/2 (BSPT)
- **Regulations:** RoHS, REACh, ISO 14743, PED, ISO 13849-1

Performance depends on the fluid, material and tube used.

Component materials



Benefits

- **Safety product** : endurance tested in accordance with the requirements of DI 2006/42/EC (B10d > 400 million cycles according to ISO 19973).
- **Optimal flow rate** ensuring good cylinder performance.
- **Compact design** to suit all configurations of the pneumatic installation.
- **360° adjustable** for easy installation.
- **Metal version** designed to withstand sparks in welding processes and harsh environments.

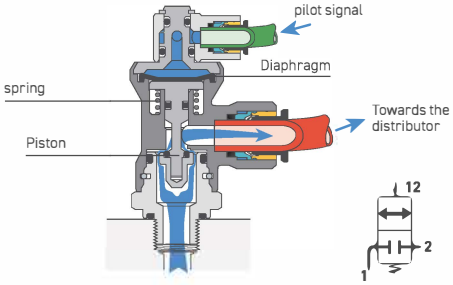
Recommended applications



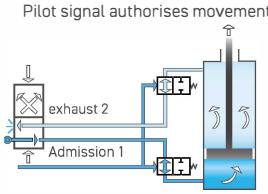
Suitable for secure retention of the cylinder rod

Operating principle

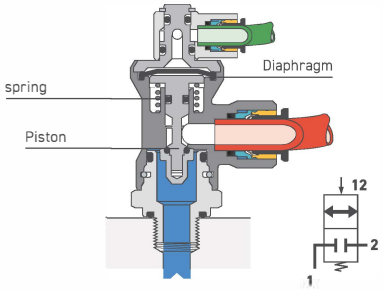
Cylinder in operation (pilot signal active)



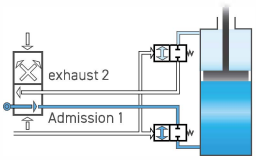
Pilot signal authorises movement



Blocked cylinder (de-piloted)

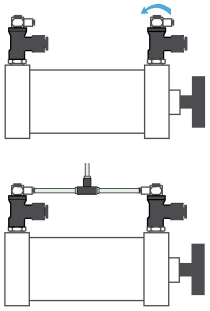


No signal blocks movement



Installation guide

Mounted in pairs, the cylinder blocking fittings are installed directly on the cylinder. Their total orientability provides great flexibility for the creation of pneumatic circuits.



Tightening torque maximum (daN.m)	Threads			
	G1/8	G1/4	G3/8	G1/2
	0.8	1.2	3	3.5

User guide

Flow rate inlet 6 bar		Pilot and de-pilot threshold depending on inlet pressure				
		2 bar	4 bar	6 bar	8 bar	10 bar
650 Nl/min	Pilot pressure	2.40	2.90	3.30	3.60	4.00
650 Nl/min	Depilot Pressure	1.50	1.80	2.15	2.40	2.80
1600 Nl/min	Pilot pressure	2.70	3.20	3.50	3.80	4.10
1600 Nl/min	Depilot Pressure	1.40	1.80	2.10	2.40	2.70