



Parker Legris

Machine Safety: Product Sheets



ENGINEERING YOUR SUCCESS.



Machine Safety Product Sheet



Blocking Fittings

Blocking fittings include a pneumatic monostable 2/2 normally closed (NC) function.

These fittings are directly installed onto the pneumatic cylinder supply and exhaust chamber.



7880
Blocking Fitting, Male BSPP Thread

ØD	C	legris
6	G1/8	7880 06 10
	G1/4	7880 06 13
8	G1/4	7880 08 13
	G3/8	7880 08 17
10	G3/8	7880 10 17



7881
Blocking Fitting, Male/Female BSPP Thread

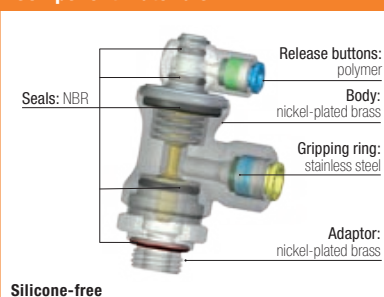
C1	C2	legris
G1/8	G1/4	7881 13 10
G1/4	G1/4	7881 13 13
G3/8	G3/8	7881 17 17
G1/2	G1/2	7881 21 21



7883
Blocker/Flow Regulator, Male BSPP Thread

ØD	C	legris
4	G1/8	7883 04 10
	G1/8	7883 06 10
6	G1/4	7883 06 13
	G1/4	7883 08 13
8	G1/4	7883 08 13
	G3/8	7883 08 17

Component Materials



✓ Machinery Directive DI 2006/42/EC

ISO 13849: Reliability (related to MTTFd of safety function)

B10d = 100 000 000 cycles, according to ISO 19973 tests with a frequency of 1Hz.

The failure criteria is determined by the safety function (valve) according to standard ISO 19973.

Conditions of use Safety Coefficient (related to CCF)

Fluids: compressed air

Working pressure: 1 to 10 bar

Working temperature:

-20°C to +70°C

-25°C to +70°C (metal version)

Working pressure is dependant upon the cracking pressure with a safety coefficient of 3.

Endurance (related to CCF)

The number of pressure cycles of the instant connection function of the fitting connected to polymer semi-rigid tubing at 1Hz from 1 to 6 bar : 63 000 000

Diagnostic coverage (related to DC avg and to safety function)

Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard.

Impossible to eliminate the failure:

- Change of response time
- No commutation/no return commutation
- Change of leakage over a long period of use
- Pressure drop

✓ Reference Directives and Standards for Design

ISO 12238

Commutation switch: 5 ms

Commutation time is determined according to the standard test methodology.

ISO 14743

Instant connection complies with the ISO14743 tests.

EN 10204

With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.

Pressure equipment directive 2014/68/EC

Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.

Complementary Ranges

- Polyamide tubing
- Polyurethane tubing
- Polyethylene tubing





Machine Safety Product Sheet



Piloted Non-Return Valves (PNRV)

These fittings include a normally closed (NC) monostable valve with a flow control regulation function and quick exhaust (model 7894).

These fittings are directly installed onto the pneumatic cylinder supply and exhaust chamber.

7892

Piloted Non-Return Valve, Male BSPP Thread

ØD	C	
6	G1/8	7892 06 10
	G1/4	7892 06 13
	G1/8	7892 08 10
8	G1/4	7892 08 13
	G3/8	7892 08 17
	G1/8	7892 10 17
10	G1/2	7892 10 21
	G1/2	7892 12 21

7894

Piloted Non-Return Valve with Flow Regulator and Exhaust, Male BSPP Thread

ØD	C	
6	G1/8	7894 06 10
	G1/4	7894 06 13
	G1/8	7894 08 10
8	G1/4	7894 08 13
	G3/8	7894 08 17
	G3/8	7894 10 17
10	G1/2	7894 10 21
	G1/2	7894 12 21

Component materials

Venting button: nickel-plated brass
Gripping ring: stainless steel
Seals: NBR
Locking nut: nickel-plated brass
Body: nickel-plated brass
Piston: nickel-plated brass
Valve poppet: nickel-plated brass, technical polymer
Flow control regulator body: technical polymer
Adjustment screw: nickel-plated brass

Silicone-free

✓ Machinery Directive DI 2006/42/EC

ISO 13849 : reliability (related to MTTFd of safety function)	Conditions of use Safety coefficient (related to CCF)	Endurance (related to CCF)	Diagnostic coverage (related to DC avg and to safety function)
Not applicable	Fluids: compressed air Working pressure: 1 to 10 bar Working temperature: -5°C to +60°C	The number of pressure cycles of the instant connection function of the fitting connected to polymer semi-rigid tubing at 1Hz from 1 to 6 bar: 63 000 000	Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard. Impossible to eliminate failure: - Change of response time - No commutation/no return commutation - Change of leakage over a long period of use - Pressure drop

Reference Directives and Standards for Design

ISO 12238	ISO 14743	EN 10204	Pressure equipment directive 2014/68/EC
Commutation switch: < 5 ms Commutation time is determined according to the standard test methodology.	Instant connection comply with the ISO14743 tests.	With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.	Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.

Complementary Products

- Polyamide tubing
- Polyurethane tubing
- Polyethylene tubing





Machine Safety Product Sheet



Non-Return Valves

Non-return valves include a monostable normally closed (NC) valve with a cracking threshold of 0,3 bar.



7984
In-Line Non-Return Valve, Supply, Male BSPP and Metric Thread

ØD	C	
4	M5x0.8	7984 04 19
	G1/8	7984 04 10
6	G1/8	7984 06 10
	G1/4	7984 06 13
8	G1/8	7984 08 10
	G1/4	7984 08 13



7994
In-Line Non-Return Valve, Exhaust, Male BSPP and Metric Thread

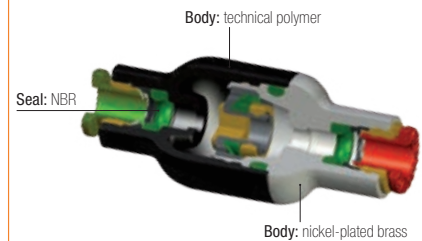
ØD	C	
4	M5x0.8	7994 04 19
	G1/8	7994 04 10
6	G1/8	7994 06 10
	G1/4	7994 06 13
8	G1/8	7994 08 10
	G1/4	7994 08 13



7996
In-Line Equal Non-Return Valve

ØD	
4	7996 04 00
6	7996 06 00
8	7996 08 00
10	7996 10 00
12	7996 12 00

Component Materials



Silicone-free

✓ Machinery Directive DI 2006/42/EC

ISO 13849 : reliability (related to MTTFd of safety function)

B10d = 26 000 000 cycles, according to ISO 19973 tests with a frequency of 1Hz.
The failure criteria is determined by the safety function (valve) according to standard ISO 19973.

Conditions of use Safety coefficient (related to CCF)

Fluids: compressed air
Working pressure: 1 to 10 bar
Working temperature: 0°C to +70°C

Endurance (related to CCF)

The number of pressure cycles of the instant connection function of the fitting connected to polymer semi-rigid tubing at 1Hz from 1 to 6 bar : 63 000 000

Diagnostic coverage (related to DC avg and safety function)

Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard.

Impossible to eliminate failure:

- Change of response time
- No commutation/no return commutation
- Change of leakage over a long period of use
- Pressure drop

✓ Reference Directives and Standards for Design

ISO 12238

Commutation switch: < 5ms
Commutation time is determined according to the standard test methodology.

ISO 14743

Instant connection comply with the ISO14743 tests.

EN 10204

With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.

Pressure equipment directive 2014/68/EC

Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.

Complementary Products

- Polyamide tubing
- Polyurethane tubing
- Polyethylene tubing






Machine Safety Product Sheet



Nickel-Plated Brass Adjustable Non-Return Valves

Adjustable non-return valves include a monostable normally closed (NC) valve with a cracking threshold that is adjustable from 0,10 to 1 bar.


7930



Adjustable Check Valve, Double Female BSPP and Metric Thread

C	
M5x0.8	7930 19 19
G1/8	7930 10 10
G1/4	7930 13 13
G3/8	7930 17 17
G1/2	7930 21 21


7931



Adjustable Check Valve Supply, Male/Female BSPP Thread

C	
G1/8	7931 10 10
G1/4	7931 13 13
G3/8	7931 17 17
G1/2	7931 21 21

7932



Adjustable Check Valve Exhaust, Male/Female BSPP Thread

C	
G1/8	7932 10 10
G1/4	7932 13 13
G3/8	7932 17 17
G1/2	7932 21 21

Component Materials

Silicone-free

✓ Directive machine DI 2006/42/CE

ISO 13849: Reliability
(related to MTTFd of safety function)

Not applicable

Conditions of use
Safety coefficient
(related to CCF)

Fluids: compressed air
Working pressure: 1 to 12 bar
Working temperature: -20°C to +80°C

Endurance
(related to CCF)

10 million cycles.

Endurance corresponds to the valve opening function at 7 bar with control of flow accuracy.

Diagnostic coverage
(related to DC avg and to safety function)

Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard.

Impossible to eliminate failure:

- Change of response time
- No commutation/no return commutation
- Change of leakage over a long period of use
- Pressure drop

✓ Reference Directives and Standards for Design

ISO 4414

Designed to avoid dangerous significant phenomena related to the use of pneumatic transmission in a machine, listed in appendix A, chart A1, A7 (food compatibility), A12.6

Technical specifications
Cracking pressure

Threads	0 to 4 tours (values given as an example only)
M5x0.8 - G1/8 - G1/4	1 to 0,10 bar
G3/8	1 to 0,15 bar
G1/2	1 to 0,20 bar

EN 10204

With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.

Pressure equipment directive 2014/68/EC

Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.

Complementary Ranges

- Polyamide tubing
- Polyurethane tubing
- Polyethylene tubing





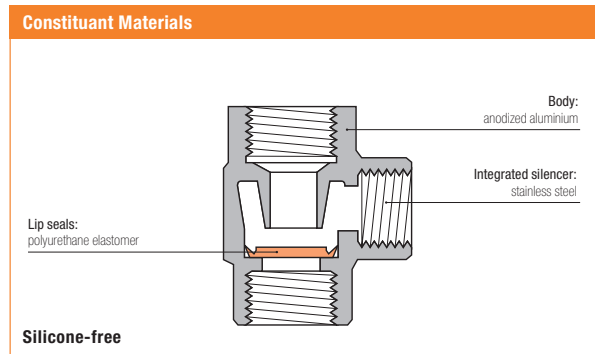
Machine Safety Product Sheet



Quick Exhaust Valve

The metal quick exhaust valve includes a normally closed (NC) single shut-off function.
Installed on the venting circuit, this valve increases the return speed of the cylinder.

7971		
Elbow Quick Exhaust Valve, Male BSPT/Female BSPP Thread		
C	C1	
G1/8	R1/8	7971 10 10
G1/4	R1/4	7971 13 13
G3/8	R3/8	7971 17 17
G1/2	R1/2	7971 21 21



✓ Machinery Directive DI 2006/42/EC

<p>ISO 13849: reliability (related to MTTFd of safety function)</p> <p>Not applicable</p>	<p>Conditions of use Safety coefficient (related to CCF)</p> <p>Fluids: compressed Working pressure: 0,7 to 10 bar Working temperature: -20°C to +70°C</p>	<p>Endurance (related to CCF)</p> <p>Not applicable</p>	<p>Diagnostic coverage (related to DC avg and to safety function)</p> <p>Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard.</p> <p>Impossible to eliminate failure:</p> <ul style="list-style-type: none"> - Change of response time - No commutation/no return commutation - Change of leakage over a long period of use - Pressure drop
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✓ Reference Directives and Standards for Design

<p>ISO 4414</p> <p>Designed to avoid dangerous significant phenomena related to the use of pneumatic transmission in a machine, listed in appendix A, tableau A1 : A12.1</p>	<p>ISO 14743</p> <p>Minimum cracking pressure: 0,3 bar at room temperature</p>	<p>EN 10204</p> <p>With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.</p>	<p>Pressure equipment directive 2014/68/EC</p> <p>Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.</p>
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Complementary Ranges

- Polyamide tubing
- Polyurethane tubing
- Polyethylene tubing





Machine Safety Product Sheet



Silencers

Silencers include a sound propagation filter equipped with an exhaust flow control regulator (models 0672 and 0676). They are designed for installation on exhaust circuits.



0674
Polymer Silencer, Male BSPP and Metric Thread



0673
Compact Silencer, Male BSPP and Metric Thread



0670
Threaded Silencer, Male BSPP Thread



0676
Flow Control Polymer Silencer, Male BSPP and Metric Thread



0671
Push-In Silencer



0672
Flow Control Silencer, Male BSPP Thread

Component Materials

Body:
brass (0670-0673-0671-0672)
polymer (0676)

Silencer:
Sintered bronze (0670-0673-0671-0672)
polymer (0674-0676)

Silicone-free

Machinery Directive DI 2006/42/EC

ISO 13849: reliability
(related to MTTFd of safety function)

Not applicable

Conditions of use
Safety coefficient
(related to CCF)

Fluids: compressed air
Working pressure:
Polyethylene : 0 to 10 bar
Sintered bronze: 0 to 12 bar
Working temperature:
Polyethylene : -10°C à +80°C
Sintered bronze: -20°C à +150°C

Endurance
(related to CCF)

Not applicable

Diagnostic coverage
(related to DC avg and to safety function)

Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard.
Impossible to eliminate failure:
- Pressure drop

Reference Directives and Standards for Design

ISO 4414

Designed to avoid dangerous significant phenomena related to the use of pneumatic transmission in a machine, listed in appendix A, chart A1, A.4

OSHA 1910.95 (b)
DI 2003/11/EC

Noise level measured for 8 hours' exposure and risks involved for operators:
- 90 dBA max.
- for noise levels > 80 dBA: requirement to use ear protection if exposure > 8 hours

EN 10204

With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.

Pressure equipment directive 2014/68/EC

Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.

Complementary Products

- Compression fittings





Machine Safety Product Sheet



Tamper-Proof Safety Clip

This product is directly installed on the push-in fitting. It is designed to block the release button. For disconnection, the tamper-evident safety clip must be broken with a tool to unblock the release button.

Tamper-Proof Safety Clip

	ØD						
3130	4	3130 04 01	3130 04 02	3130 04 03	3130 04 04	3130 04 05	
	6	3130 06 01	3130 06 02	3130 06 03	3130 06 04	3130 06 05	3130 06 10
	8	3130 08 01	3130 08 02	3130 08 03	3130 08 04	3130 08 05	3130 08 10
	10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10
	12	3130 12 01		3130 12 03		3130 12 05	3130 12 10

Component Material and Installation Process



Machinery Directive DI 2006/42/EC

ISO 13849: reliability
(related to MTTFd
of safety function)

Not applicable

Conditions of use
Safety coefficient
(related to CCF)

Compatible ranges : LF 3000®, LIQUIfit®
Working temperature:
-20°C to +95°C

Endurance
(related to CCF)

Not applicable

Diagnostic coverage
(related to DC avg
and to safety function)

Sources of failure related to pneumatic
components, taken from the DIN EN ISO
13849-2 standard

Impossible to eliminate failure:
- Obstruction (blockage)
- Error of connection

Reference Directives and Standards for Design

ISO 4414

Design to avoid dangerous significant
phenomena related to the use of
pneumatic transmission in a machine,
listed in appendix A, chart A1 : A.11.2,
A.12.6

ISO 14743

Not applicable

EN 10204

With the order reference, we can provide
types 2.2 ou 2.1 certificates, upon
request.

**Pressure equipment
directive 2014/68/EC**

Not applicable

Complementary Ranges

- LF 3000® push-in fittings
- LIQUIfit® push-in fittings





Ball Valves, Universal Series, Lockable

These valves are normally open (NO) ball valves. The flow passes through the ball valve in a straight or elbow line. These valves can be open or closed by a simple 90° rotation of the handle.



0432
2/2 In-Line Lockable Ball Valve, Female BSPP Thread



0439
3/2 In-line Vented Lockable Ball Valve, Female BSPP Thread



0436
3/2 In-Line Lockable Ball Valve with Threaded Exhaust Port, Female BSPP and Metric Thread

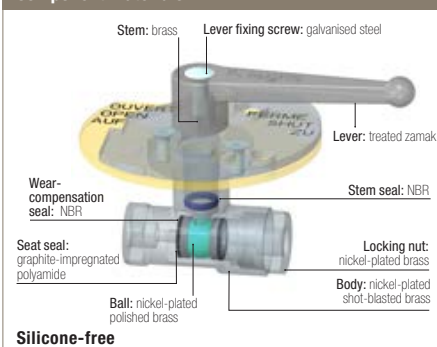


0437
3/2 In-line Vented 3-Point Lockable Ball Valve, Female BSPP Thread



0438
3/2 Right-Angled 3-Point Lockable Ball Valve, Female BSPP Thread

Component Materials



Machinery Directive DI 2006/42/EC

ISO 13849 : Reliability
(related to MTTFd of safety function)

Not applicable

Conditions of use
Safety coefficient
(related to CCF)

Fluids: Industrial fluids
Working pressure: 20 to 40 bar, according to the model
Working temperature: -40°C to +80°C

Endurance
(related to CCF)

5000 operating cycles (opening/ closing) at 6 bar according to standard EN 13828

Diagnostic coverage
(related to DC avg and to safety function)

Not applicable

Reference Directives and Standards for Design

ISO 4414

To prevent hazards caused by unintended operations, the lockable plate fixed to the stem guarantees the conformity to this standard.

EN 13828

Standard's performance requirements and test methods. Sealing is reinforced with the double wear compensation seat ball.

EN 10204

With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.

Pressure equipment directive 2014/68/CE

Mandatory CE marking for DN > 25 mm. For use with dangerous gases, please consult us.

Complementary Products

- Polyamide tubing
- Polyurethane tubing
- Polyethylene tubing
- Compression fittings





Machine Safety Product Sheet



Safety Blowgun

This blowgun is designed with a blowing nozzle including a normally open (NO) valve with automatic blockage in case there is an obstruction of the nozzle. The remaining pressure is therefore limited to 0,5 bar.



0654
Safety Blowgun, Lower Connection, Female BSPP Thread

C	DN	
G1/4	3	0654 00 13



0654
SUVA Safety Blowgun, Lower Connection, Female BSPP Thread

C	DN	
G1/4	3	0654 01 13

Component Materials

Body: technical polymer
Nozzle: nickel-plated brass
Trigger: technical polymer
Connection: nickel-plated brass

Silicone-free

Machine Directive DI 2006/42/EC

ISO 13849 : reliability
(related to MTTFd of safety function)

Not applicable

Conditions of use
Safety Factor
(related to CCF)

Fluid: compressed air
Working pressure: 0 to 10 bar
Working temperature: -20°C to +80°C

Endurance
(related to CCF)

Number of piston operating cycles allowing opening/closing of compressed air circuit at 6 bar : 365 000 cycles.

Diagnostic coverage
(related to DC avg and to safety function)

Sources of failure related to pneumatic components, taken from the DIN EN ISO 13849-2 standard.

Impossible to eliminate the failure for the nozzle :

- Change of response time
- No commutation/no return commutation
- Change of leakage over a long period of use
- Pressure drop

Reference Directives and Standards for Design

OSHA 1910.242 (b)

Residual static pressure < 30 psi in the case when the nozzle is blocked

OSHA 1910.95 (b)
DI 2003/11/EC

Noise level measured for 8 hours' exposure and risks involved for operators:

- 80 dBA
- No ear protection necessary

EN 10204

With the order reference, we can provide types 2.2 ou 2.1 certificates, upon request.

Pressure equipment directive 2014/68/EC

Meet the requirements of § 4.3 article and test pressure equivalent to 1.5 times the recommended working pressure.

Complementary Products

- Braided PU ester and ether recoil hose
- Recoil semi-rigid PA tubing

