

Blocking Fittings

Blocking fittings, mounted in pairs on a cylinder, lock the piston by simultaneously **cutting off the supply and exhaust** when the pilot signal is removed.

Product Advantages

Optimum Performance

- Optimum flow: no effect on the performance of the cylinder
- Compact size
- Fully orientable for excellent flexibility in circuit installation
- 100% leak-tested in production
- Date coding to guarantee quality and traceability

Robust & Unsurpassed Life Time

- Suitable for the most demanding environments
- Excellent corrosion and spark resistance to salt spray and sparks (threaded models)
- Proven push-in technology
- Tried and tested durability according to DI 2006/42/CE



Robotics
Machine Tools
Textile
Packaging
Pneumatics
Automotive Process

Applications

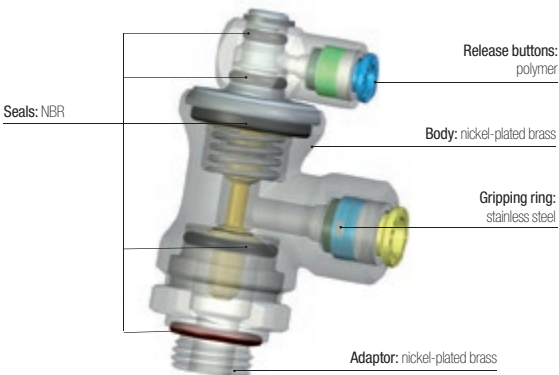
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	1 to 10 bar
Working Temperature	-20°C to +70°C -25°C to +70°C (metal version)

Connection	Supply Flow 6 bar	Pilot and depilot threshold depending on supply pressure					
			2 bar	4 bar	6 bar	8 bar	10 bar
ØD 6 and 8 mm, threads G1/8, G1/4, R1/8, R1/4	650NI/min	Pilot Pressure	2.40	2.90	3.30	3.60	4.00
	650NI/min	Depilot Pressure	1.50	1.80	2.15	2.40	2.80
ØD 10 and 12 mm, threads G3/8, G1/2, R3/8, R1/2	1600NI/min	Pilot Pressure	2.70	3.20	3.50	3.80	4.10
	1600NI/min	Depilot Pressure	1.40	1.80	2.10	2.40	2.70

Reliable performance is dependent upon the type of fluid conveyed and component materials being used.
Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Component Materials



Silicone-free

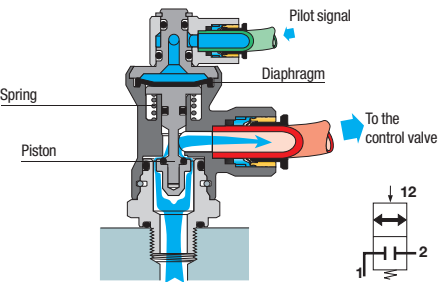
Regulations

DI: 2002/95/EC (RoHS)
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

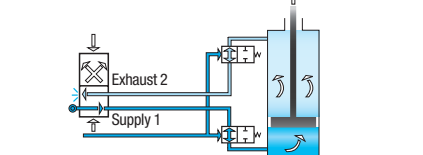
DI : 2006/42/EC (Machine Directive)
test according to ISO 19973-5.
B10d (1Hz) >70 millions of cycles

Operation

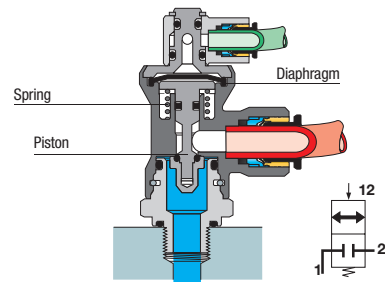
Cylinder in Operation (pilot signal active)



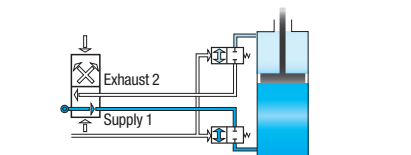
Pilot signal authorises movement



Cylinder Blocked (pilot signal removed)

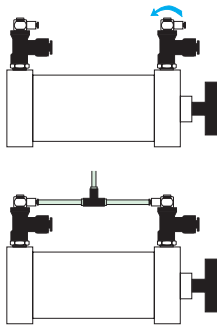


No signal blocks movement



Installation

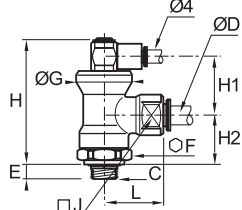

Mounted in pairs, blocking fittings are installed directly on the cylinder. Being fully orientable, they offer excellent flexibility in the design and installation of pneumatic circuits.



Blocking Fittings

7880 Blocking Fitting, Male BSPP Thread

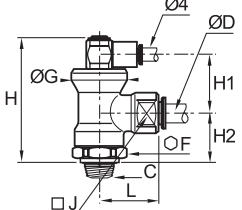

Nickel-plated brass, NBR



ØD	C		E	F	G	H	H1	H2	J	L	Kg
6	G1/8	7880 06 10	5.5	21	24	53	24.5	21	17	28	0.127
	G1/4	7880 06 13	6.5	21	24	53	24.5	21	17	28	0.130
8	G1/4	7880 08 13	6.5	21	24	53	24.5	21	17	28	0.124
	G3/8	7880 08 17	7.5	21	24	53	24.5	21	17	28	0.127
10	G3/8	7880 10 17	7.5	24	28	58	25	25	27	35	0.210
12	G1/2	7880 12 21	9	24	28	58	25	25	27	37.5	0.220

7885 Blocking Fitting, Male BSPT Thread

Nickel-plated brass, NBR

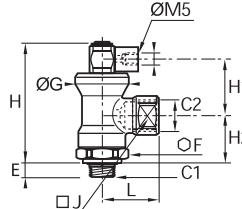



ØD	C		F	G	H	H1	H2	J	L	Kg
6	R1/8	7885 06 10	21	24	51.5	25	20	17	28	0.127
	R1/4	7885 06 13	21	24	51.5	25	20	17	28	0.131
8	R1/4	7885 08 13	21	24	51.5	25	20	17	28	0.126
	R3/8	7885 08 17	21	24	51.5	25	20	17	28	0.131
10	R3/8	7885 10 17	24	28	57	25	24	27	35	0.217
12	R1/2	7885 12 21	24	28	57	25	24	27	37.5	0.229

Pre-coated thread

7881 Blocking Fitting, Male/Female BSPP Thread

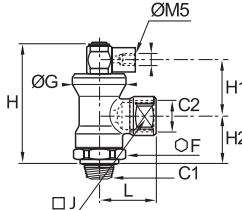

Nickel-plated brass, NBR



C1	C2		E	F	G	H	H1	H2	J	L	Kg
G1/8	G1/4	7881 13 10	5.5	21	24	53	24.5	21	17	25.5	0.119
G1/4	G1/4	7881 13 13	6.5	21	24	53	24.5	21	17	25.5	0.120
G3/8	G3/8	7881 17 17	7.5	24	28	58	25	25	27	34	0.208
G1/2	G1/2	7881 21 21	9	24	28	58	25	25	27	40	0.221

7886 Blocking Fitting, Male/Female BSPT Thread

Nickel-plated brass, NBR

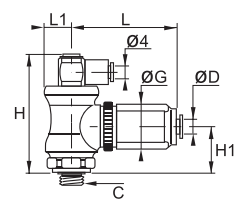



C1	C2		F	G	H	H1	H2	J	L	Kg
R1/8	R1/4	7886 13 10	21	24	51.5	25	20	17	26.5	0.121
R1/4	R1/4	7886 13 13	21	24	51.5	25	20	17	26.5	0.126
R3/8	R3/8	7886 17 17	24	28	57	25	24	27	34	0.225
R1/2	R1/2	7886 21 21	24	28	57	25	24	27	40	0.235

Pre-coated thread

7883 Blocker/Flow Regulator, Male BSPP Thread

Nickel-plated brass, technical polymer, NBR



ØD	C		G	H	H1	L	L _{max}	L1	Kg
4	G1/8	7883 04 10	21.5	53	21	46.5	52	12	0.166
	G1/8	7883 06 10	21.5	53	21	46.5	52	12	0.163
6	G1/4	7883 06 13	21.5	53	21	46.5	52	12	0.166
	G1/4	7883 08 13	27	57.5	24.5	54	60	14	0.252
8	G3/8	7883 08 17	27	57.5	24.5	54	60	14	0.254

Combination of blocking and flow regulation functions

Working temperature: 0 to +70°C