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

- Suitable for the most demanding environments
- Excellent corrosion and spark resistance to salt spray and sparks (threaded models)
- Proven push-in technology

Applications

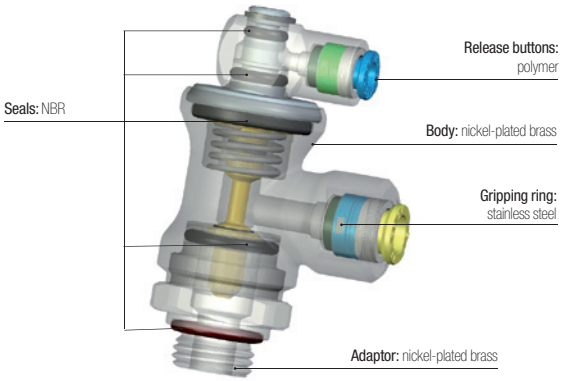
Robotics
Machine Tools
Textile
Packaging
Pneumatics
Automotive Process

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	1 to 10 bar
Working Temperature	-20°C to +70°C

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	650Nl/min	Pilot Pressure	2.40	2.90	3.30	3.60	4.00
	650Nl/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	1600Nl/min	Pilot Pressure	2.70	3.20	3.50	3.80	4.10
	1600Nl/min	Depilot Pressure	1.40	1.80	2.10	2.40	2.70

Component Materials



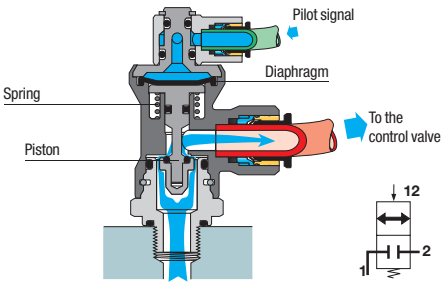
Silicone-free

Regulations

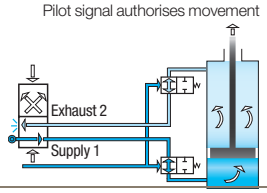
DI: 2002/95/EC (RoHS)
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

Operation

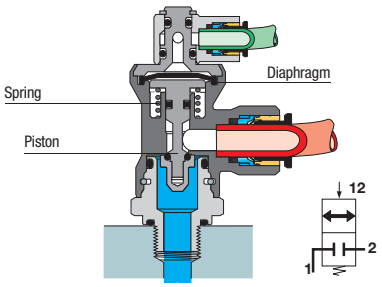
Cylinder in Operation (pilot signal active)



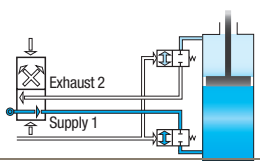
Pilot signal authorises movement



Cylinder Blocked (pilot signal removed)

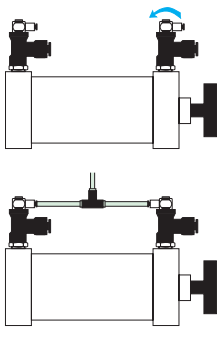


No signal blocks movement



Installation

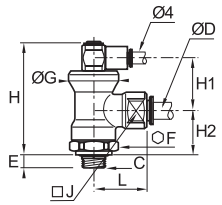
Mounted in pairs, blocking fittings are installed directly on the cylinder. Being fully orientable, they offer excellent flexibility in the design and installation of pneumatic circuits.



Blocking Fittings

7880 Blocking Fitting, Male BSPP Thread

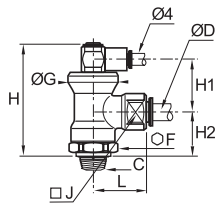
Nickel-plated brass, NBR



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	0.126
	G1/4	7880 06 13	6.5	21	24	53	24.5	21	17	28	0.128
8	G1/4	7880 08 13	6.5	21	24	53	24.5	21	17	28	0.122
	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	0.209
12	G1/2	7880 12 21	9	24	28	58	25	25	27	37.5	0.222

7885 Blocking Fitting, Male BSPT Thread

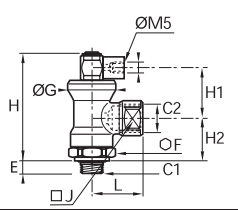
Nickel-plated brass, NBR



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	0.130
10	R3/8	7885 10 17	24	28	57	25	24	27	35	0.222
	R1/2	7885 12 21	24	28	57	25	24	27	37.5	0.229

7881 Blocking Fitting, Male/Female BSPP Thread

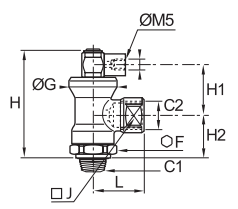
Nickel-plated brass, NBR



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	0.118
G1/4	G1/4	7881 13 13	6.5	21	24	53	24.5	21	17	25.5	0.119
G3/8	G3/8	7881 17 17	7.5	24	28	58	25	25	27	34	0.211
G1/2	G1/2	7881 21 21	9	24	28	58	25	25	27	40	0.226

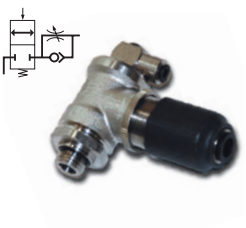
7886 Blocking Fitting, Male/Female BSPT Thread

Nickel-plated brass, NBR

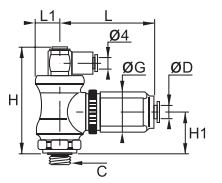


C1	C2		F	G	H	H1	H2	J	L	kg
R1/8	R1/4	7886 13 10	21	24	51.5	25	20	17	26.5	0.121
R1/4	R1/4	7886 13 13	21	24	51.5	25	20	17	26.5	0.126
R3/8	R3/8	7886 17 17	24	28	57	25	24	27	34	0.225
R1/2	R1/2	7886 21 21	24	28	57	25	24	27	40	0.240

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
6	G1/8	7883 06 10	21.5	53	21	46.5	52	12	0.163
	G1/4	7883 06 13	21.5	53	21	46.5	52	12	0.166
8	G1/4	7883 08 13	27	57.5	24.5	54	60	14	0.251
	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