

Piloted Non-Return Valves

Piloted non-return valves are designed to **protect installations**: if the compressed air supply is removed, they lock the air supply to the cylinder, thus maintaining it in position.

Product Advantages

System Protection

Protection of your system
Control of inlet and outlet flow: cylinder operation optimised
Vent saves time on restart after maintenance operations (model 7894)

3 Functions in 1 Product

A multi-purpose fitting:

- piloted non-return valve
- flow control regulator
- manual exhaust

 All-in-one product: integrated fittings for the control and supply

Flexible Operation

Orientable and adjustable through 3 axes
Can be integrated into any installation configuration
Push-in connection for quicker and more reliable installation
Mounted in pairs directly on the cylinder



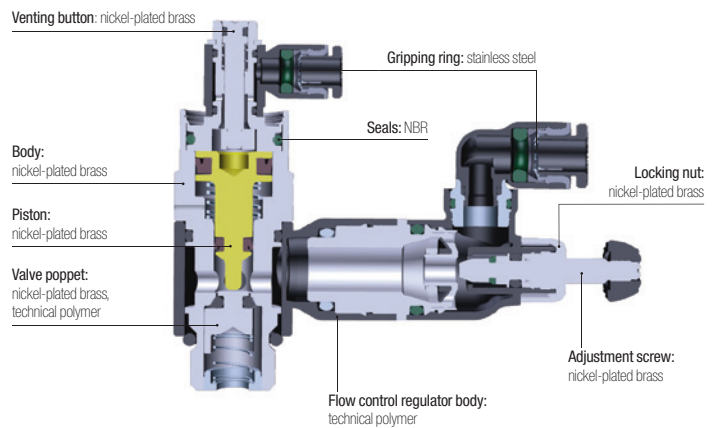
Applications

Pneumatics
Assembly
Robotics
Machine Tools
Packaging
Handling
Automotive Process

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	1 to 10 bar
Working Temperature	-5°C to +60°C
Cracking Pressure	0.3 bar

Component Materials



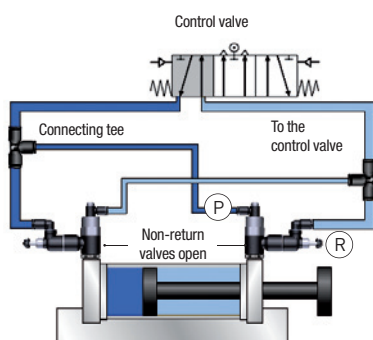
Silicone-free

Regulations

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

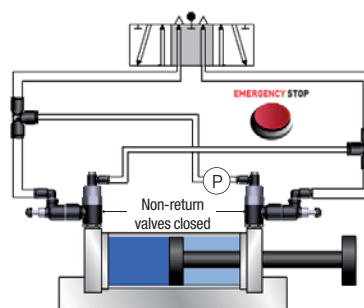
Operation

Normal Operation



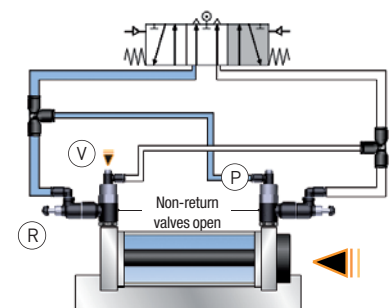
Pilot signal (P)
Regulation of cylinder rod speed (R)

Emergency Stop or Pressure Drop



Drop/removal of pilot pressure (P) = cylinder rod locked

Venting Operation



Venting (V) returns the cylinder rod to the start position, emptying the pressure chamber through the flow regulator (R) and pilot line (P)

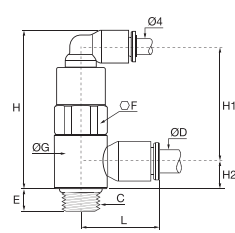
Piloted Non-Return Valves

7892

Piloted Non-Return Valve, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



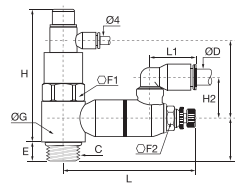
ØD	C		E	F	G	H	H1	H2	L	kg
6	G1/8	7892 06 10	6	13	14	42	30	7	21	0.020
	G1/4	7892 06 13	9	17	18.5	45	32	9	23	0.042
8	G1/8	7892 08 10	6	13	14	42	29	9	25	0.020
	G1/4	7892 08 13	9	17	18.5	45	32	9	27	0.042
10	G3/8	7892 08 17	6	20	22.5	57	41	11	28	0.093
	G3/8	7892 10 17	6	20	22.5	57	41	11	31	0.144
12	G1/2	7892 10 21	10	24	28	63	47	16	36	0.109
12	G1/2	7892 12 21	10	24	28	63	47	16	36	0.150

7894

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



Technical polymer, nickel-plated brass, NBR



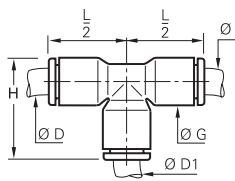
ØD	C		E	F1	F2	G	H	H1	H2	H3	L	L _{max}	L1	kg
6	G1/8	7894 06 10	6	13	8	14	46	7	24	31	48.5	51	16	0.041
	G1/4	7894 06 13	9	17	10	18.5	49	11	18	31	59.5	65	17	0.067
8	G1/8	7894 08 10	6	13	8	14	46	7	27	31	48.5	51	22	0.051
	G1/4	7894 08 13	9	17	10	18.5	49	11	23	31	59.5	65	23	0.068
10	G3/8	7894 08 17	7	20	14	22.5	69	13	21	40	67.5	73	23	0.060
	G3/8	7894 10 17	7	20	14	22.5	69	13	29	40	67.5	73	26	0.061
12	G1/2	7894 10 21	9	24	17	28	76	12.5	26	47	74	81	26	0.234
	G1/2	7894 12 21	9	24	17	28	76	12.5	27	47	74	81	30	0.237

3104

Unequal Tee



Technical polymer, NBR



ØD	ØD1		G	H	L/2	kg
6	4	3104 06 04	10.5	22.5	17.5	0.005
8	4	3104 08 04	13.5	29	22.5	0.014
10	4	3104 10 04	16	33	26	0.027
12	4	3104 12 04	19	39	31	0.034

Model	Pilot and depilot threshold					
		2 bar	4 bar	6 bar	8 bar	10 bar
G1/8	Pilot Pressure	1.2	1.72	2.44	2.96	3.56
	Depilot Pressure	0.56	0.96	1.12	1.76	2.12
G1/4	Pilot Pressure	0.92	1.52	2.12	2.68	3.28
	Depilot Pressure	0.64	1.16	1.68	2.16	2.64
G3/8	Pilot Pressure	1.12	1.84	2.56	3.32	4.08
	Depilot Pressure	0.64	1.04	1.44	1.84	2.36
G1/2	Pilot Pressure	1.04	1.60	2.12	2.76	3.88
	Depilot Pressure	0.76	1.28	1.76	2.20	2.72

Maximum Flow at 6 bar (NI/min)	7894 06 10	7894 06 13	7894 08 10	7894 08 13	7894 08 17	7894 10 17	7894 10 21	7894 12 21
Direction of Adjustment	250	475	240	585	875	940	1535	1560
Return	365	620	355	815	1085	1205	1860	1940