

# 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

<b>System Protection</b>	Protection of your system
	Control of inlet and outlet flow: cylinder operation optimised
<b>3 Functions in 1 Product</b>	Vent saves time on restart after maintenance operations (model 7894)
	A multi-purpose fitting:
	<ul style="list-style-type: none"><li>•piloted non-return valve</li><li>•flow control regulator</li><li>•manual exhaust</li></ul>
<b>Flexible Operation</b>	All-in-one product: integrated fittings for the control and supply
	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

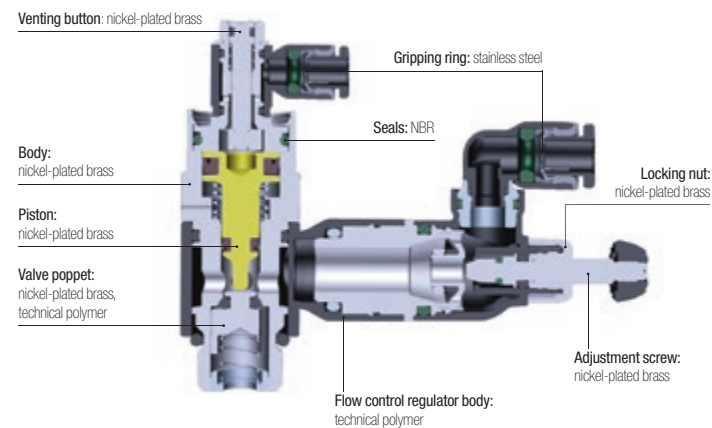
## Technical Characteristics

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

### Regulations

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

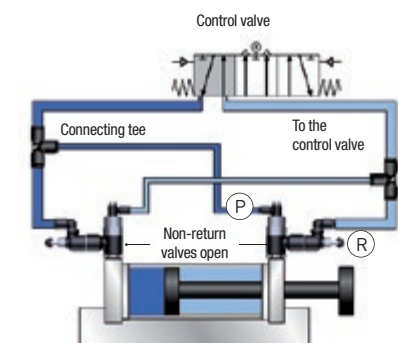
### Component Materials



Silicone-free

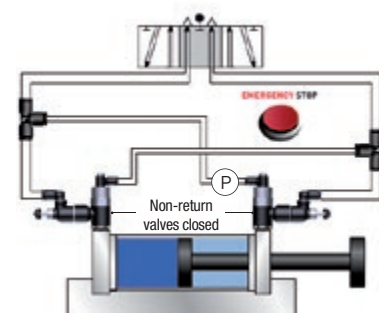
## Operation

### Normal Operation



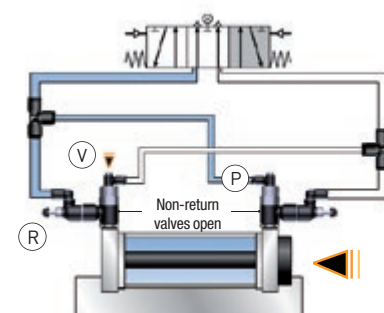
Pilot signal (P)  
Regulation of cylinder rod speed (R)

### Emergency Stop or Pressure Drop



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

### Venting Operation

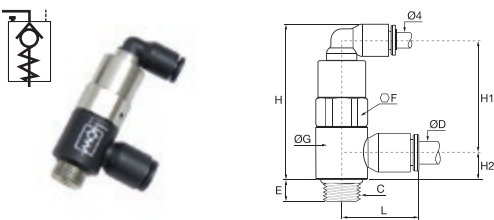


Venting (V) returns the cylinder rod to the start position, emptying the pressure chamber through the flow regulator (R) and pilot line (P)

# Piloted Non-Return Valves

## 7892 Piloted Non-Return Valve, Male BSPP Thread

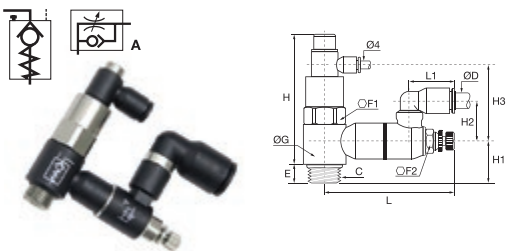
Technical polymer, nickel-plated brass, NBR



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



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

### Related Product

#### LF 3000® Push-In Fittings

##### Unequal Tee

P. 1-18



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 (Nl/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