

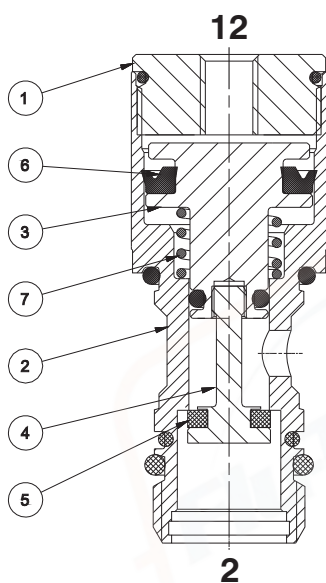
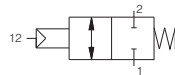
## Series 50

### General

The blocking valves are used to maintain pressure in the downstream part of the pneumatic circuit even when the pressure supply is shut down.  
Blocking valves are normally assembled directly on cylinders ports in order to maintain the position even in cases of accidental loss of the pilot pressure by preventing a sudden loss of pressure in the cylinder chambers.  
Unidirectional and bidirectional version are both available.  
The unidirectional version allows free air to flow in one direction while requires a pneumatic signal to allow air flow in the opposite direction.  
The bidirectional valve requires a pressure signal to allow air flow in both of the two directions.  
**The blocking valve cannot be used as safety device.**

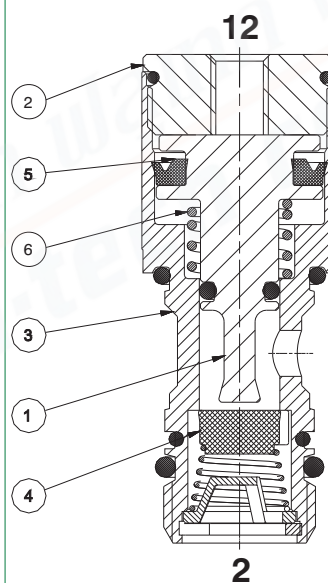
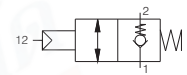
### Constructive features

#### UNIDIRECTIONAL VERSION



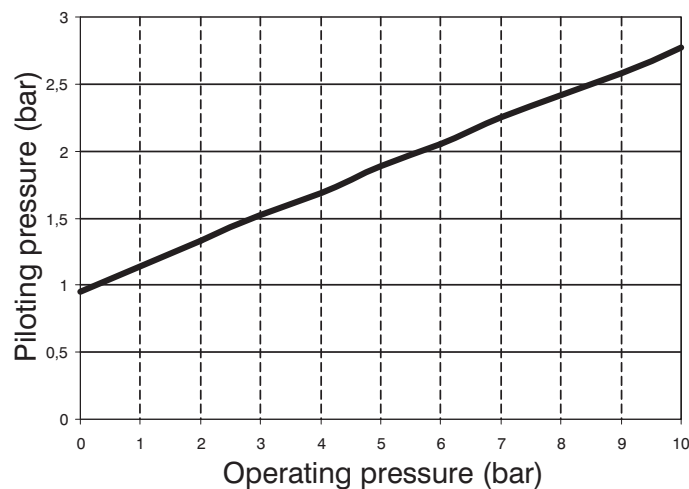
- 1 - Aluminium piston
- 2 - Brass plug
- 3 - Brass body
- 4 - FPM poppet (1/8" and 1/4" version) PUR poppet
- 5 - NBR seal
- 6 - Steel spring

#### BIDIRECTIONAL VERSION



- 1 - Brass plug
- 2 - Brass body
- 3 - Aluminium piston
- 4 - Steel piston extension
- 5 - PUR poppet
- 6 - NBR seal
- 7 - Steel spring

### Working curves





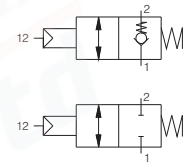
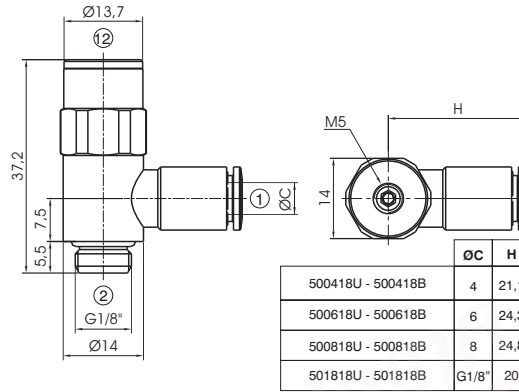
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**Blocking valves metal type - Size 1/8"**

Coding: 50T18V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	285
Flow rate with free exhaust (NI/min)	450

METAL TYPE	
A	Banjo only
04	Banjo Ø4
06	Banjo Ø6
08	Banjo Ø8
18	Banjo G1/8"
VERSION	
U	Unidirectional
B	Bidirectional

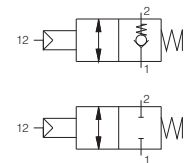
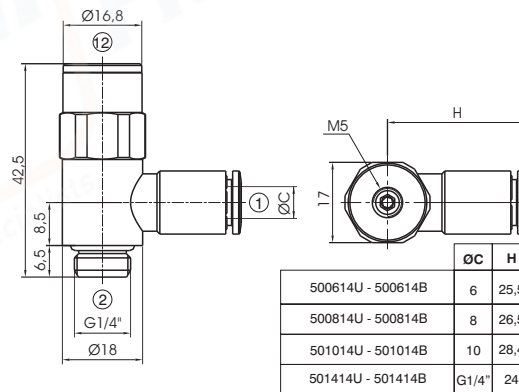


**Blocking valves metal type - Size 1/4"**

Coding: 50T14V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	530
Flow rate with free exhaust (NI/min)	800

METAL TYPE	
A	Banjo only
06	Banjo Ø6
08	Banjo Ø8
10	Banjo Ø10
14	Banjo G1/4"
VERSION	
U	Unidirectional
B	Bidirectional

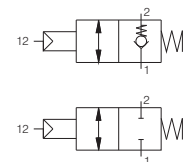
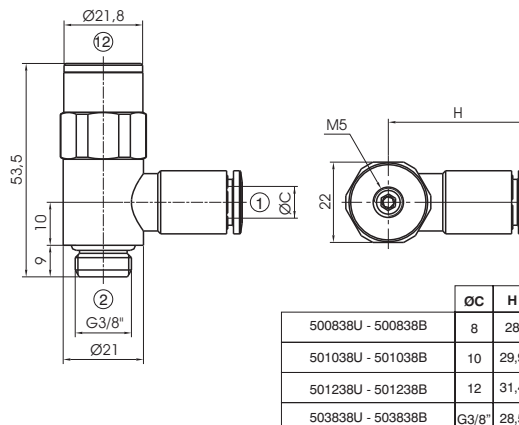


**Blocking valves metal type - Size 3/8"**

Coding: 50T38V

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1000
Flow rate with free exhaust (NI/min)	1600

METAL TYPE	
A	Banjo only
08	Banjo Ø8
10	Banjo Ø10
12	Banjo Ø12
38	Banjo G3/8"
VERSION	
U	Unidirectional
B	Bidirectional

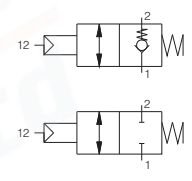
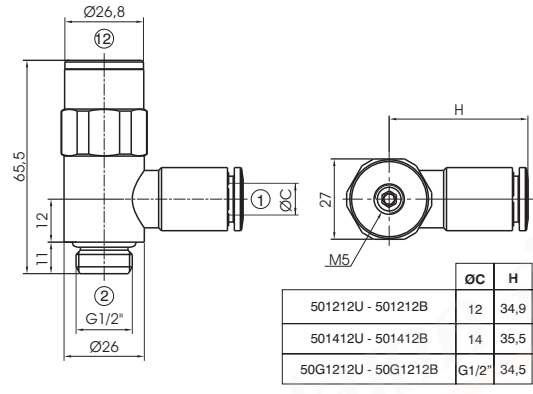


Blocking valves metal type - Size 1/2"

Coding: 50 **T** 12 **V**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1300
Flow rate with free exhaus (NI/min)	2600

METAL TYPE	
<b>T</b>	A = Banjo only
	12 = Banjo Ø12
	G12 = Banjo G1/2"
VERSION	
<b>V</b>	U = Unidirectional
	B = Bidirectional



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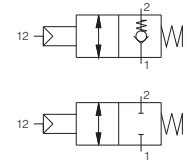
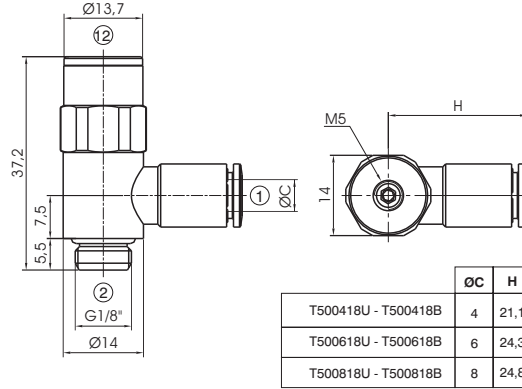


**Blocking valves technopolymer type - Size 1/8"**

Coding: T50**T**18**V**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	285
Flow rate with free exhaust (NI/min)	450

METAL TYPE	
<b>A</b>	Banjo only
<b>T</b>	<b>04</b> = Banjo Ø4
	<b>06</b> = Banjo Ø6
	<b>08</b> = Banjo Ø8
VERSION	
<b>V</b>	<b>U</b> = Unidirectional
	<b>B</b> = Bidirectional

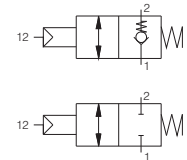
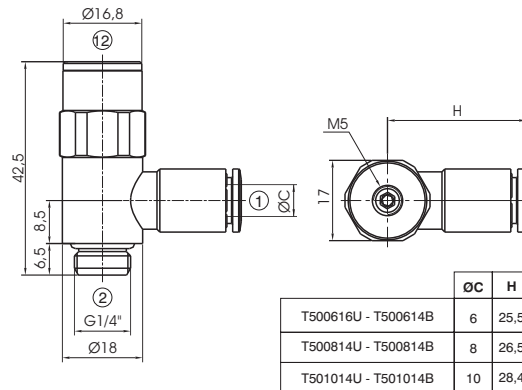


**Blocking valves technopolymer type - Size 1/4"**

Coding: T50**T**14**V**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	530
Flow rate with free exhaust (NI/min)	800

METAL TYPE	
<b>A</b>	Banjo only
<b>T</b>	<b>06</b> = Banjo Ø6
	<b>08</b> = Banjo Ø8
	<b>10</b> = Banjo Ø10
VERSION	
<b>V</b>	<b>U</b> = Unidirectional
	<b>B</b> = Bidirectional

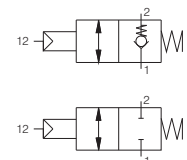
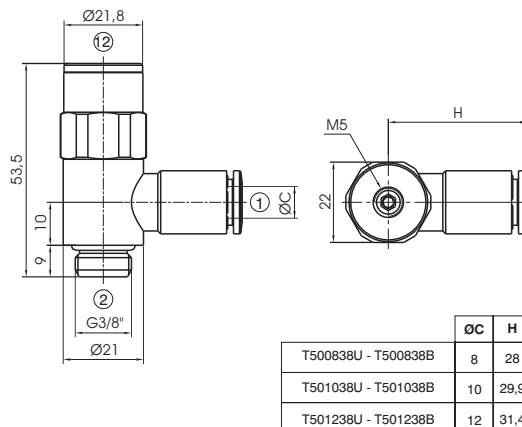


**Blocking valves technopolymer type - Size 3/8"**

Coding: T50**T**38**V**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1000
Flow rate with free exhaust (NI/min)	1600

METAL TYPE	
<b>A</b>	Banjo only
<b>T</b>	<b>08</b> = Banjo Ø8
	<b>10</b> = Banjo Ø10
	<b>12</b> = Banjo Ø12
VERSION	
<b>V</b>	<b>U</b> = Unidirectional
	<b>B</b> = Bidirectional

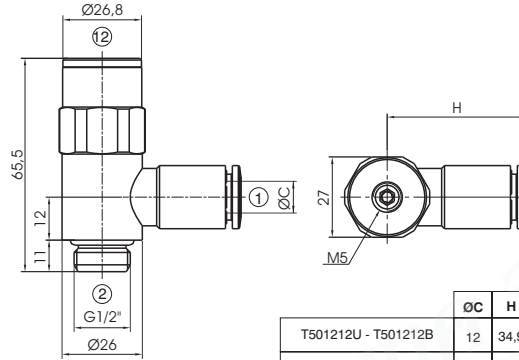


Blocking valves technopolymer type - Size 1/2"

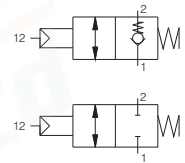
Coding: T5012U

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	0,5 ÷ 10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1300
Flow rate with free exhaus (NI/min)	2600

METAL TYPE	
①	A = Banjo only
	10 = Banjo Ø10
	12 = Banjo Ø12
VERSION	
②	U = Unidirectional
	B = Bidirectional



	ØC	H
T501212U - T501212B	12	34.9
T501012U - T501012B	10	30



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