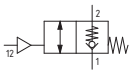
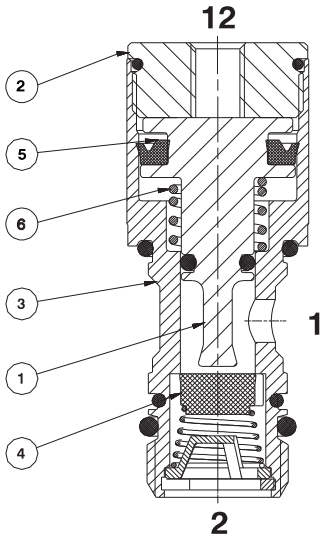
Series 50-T50

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 version 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

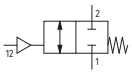
UNIDIRECTIONAL VERSION

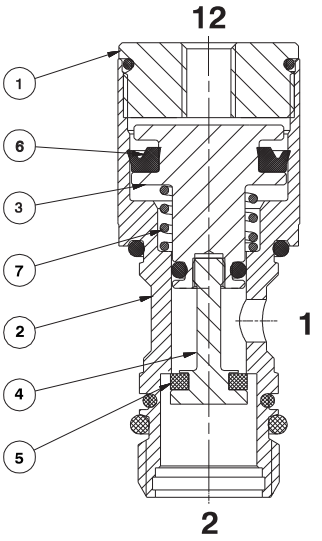




1 - Aluminium piston
2 - Brass plug
3 - Brass body
4 - FPM poppet (1/8" and 1/4" version) PUR poppet
5 - NBR seal
6 - Steel spring

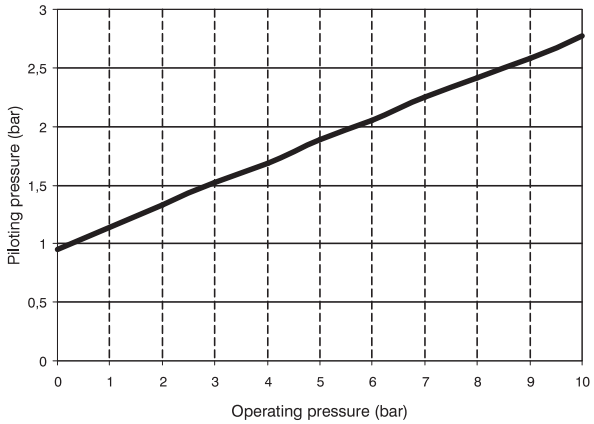
BIDIRECTIONAL VERSION





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

Working curves

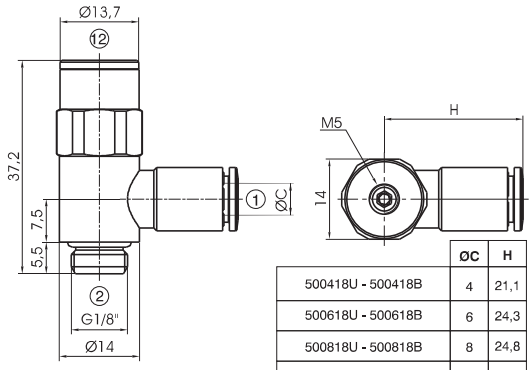


Blocking valves metal type-Size 1/8"

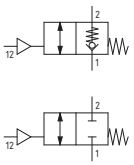
Coding: 50Ⓣ18Ⓥ

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	285
Flow rate with free exhaust (Nl/min)	450

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



	ØC	H
500418U - 500418B	4	21,1
500618U - 500618B	6	24,3
500818U - 500818B	8	24,8
501818U - 501818B	G1/8"	20

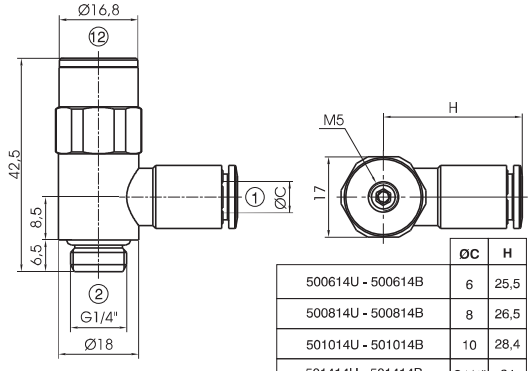


Blocking valves metal type-Size 1/4"

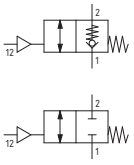
Coding: 50Ⓣ14Ⓥ

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	530
Flow rate with free exhaust (Nl/min)	800

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



	ØC	H
500614U - 500614B	6	25,5
500814U - 500814B	8	26,5
501014U - 501014B	10	28,4
501414U - 501414B	G1/4"	24

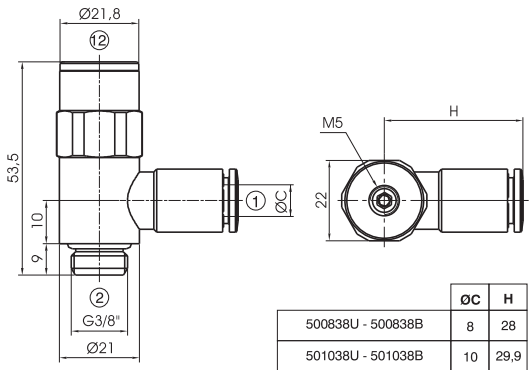


Blocking valves metal type-Size3/8"

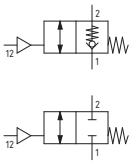
Coding: 50Ⓣ38Ⓥ

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1000
Flow rate with free exhaust (Nl/min)	1600

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



	ØC	H
500838U - 500838B	8	28
501038U - 501038B	10	29,9
501238U - 501238B	12	31,4
503838U - 503838B	G3/8"	28,5

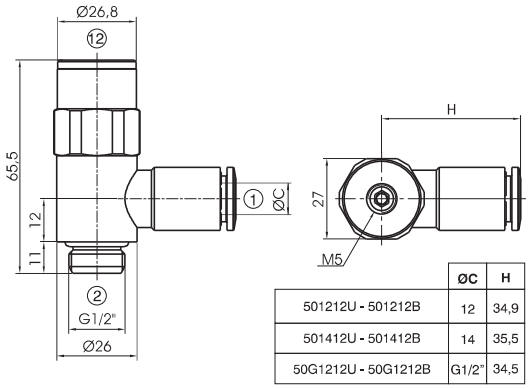


Blocking valves metal type-Size1/2"

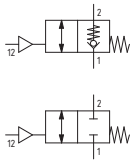
Coding: 50 T 12 V

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1300
Flow rate with free exhaust (Nl/min)	2600

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



	ØC	H
501212U - 501212B	12	34,9
501412U - 501412B	14	35,5
50G1212U - 50G1212B	G1/2"	34,5

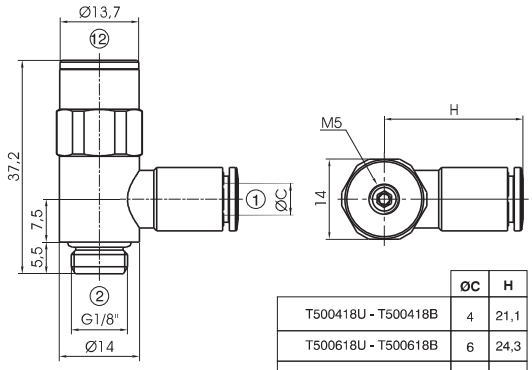


Blocking valves technopolymer type-Size 1/8"

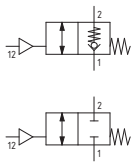
Coding: T50❶18❷

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	285
Flow rate with free exhaust (Nl/min)	450

❶	TYPE
	A = Banjo only
	04 = Banjo Ø4
	06 = Banjo Ø6
	08 = Banjo Ø8
❷	VERSION
	U = Unidirectional
	B = Bidirectional



	ØC	H
T500418U - T500418B	4	21,1
T500618U - T500618B	6	24,3
T500818U - T500818B	8	24,8

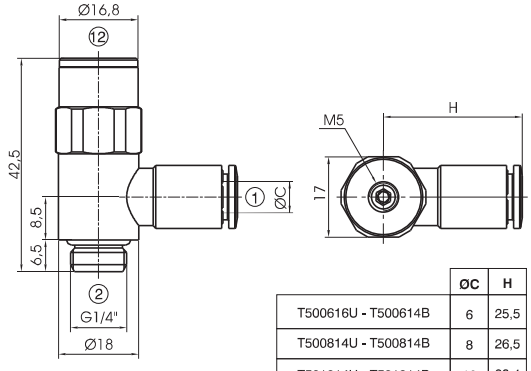


Blocking valves technopolymer type-Size 1/4"

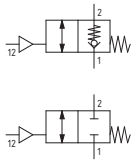
Coding: T50❶14❷

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	530
Flow rate with free exhaust (Nl/min)	800

❶	TYPE
	A = Banjo only
	06 = Banjo Ø6
	08 = Banjo Ø8
	10 = Banjo Ø10
❷	VERSION
	U = Unidirectional
	B = Bidirectional



	ØC	H
T500616U - T500614B	6	25,5
T500814U - T500814B	8	26,5
T501014U - T501014B	10	28,4

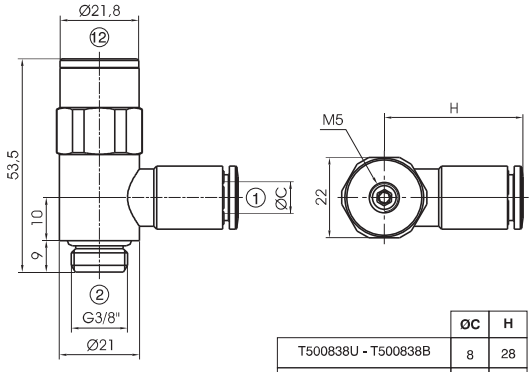


Blocking valves technopolymer type-Size 3/8"

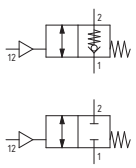
Coding: T50❶38❷

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1000
Flow rate with free exhaust (Nl/min)	1600

❶	TYPE
	A = Banjo only
	08 = Banjo Ø8
	10 = Banjo Ø10
	12 = Banjo Ø12
❷	VERSION
	U = Unidirectional
	B = Bidirectional



	ØC	H
T500838U - T500838B	8	28
T501038U - T501038B	10	29,9
T501238U - T501238B	12	31,4

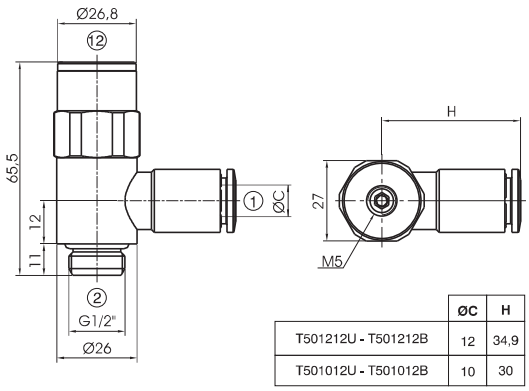


Blocking valves technopolymer type-Size 1/2"

Coding: T50❶12Ⓥ

Operational characteristics	
Fluid	filtered and lubricated air or non
Working pressure (bar)	0,5 ... 10
Temperature °C	-5 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1300
Flow rate with free exhaust (Nl/min)	2600

❶	TYPE
	A = Banjo only
	10 = Banjo Ø10
	12 = Banjo Ø12
Ⓥ	VERSION
	U = Unidirectional
	B = Bidirectional



	ØC	H
T501212U - T501212B	12	34,9
T501012U - T501012B	10	30