1

Tecno FUN

General

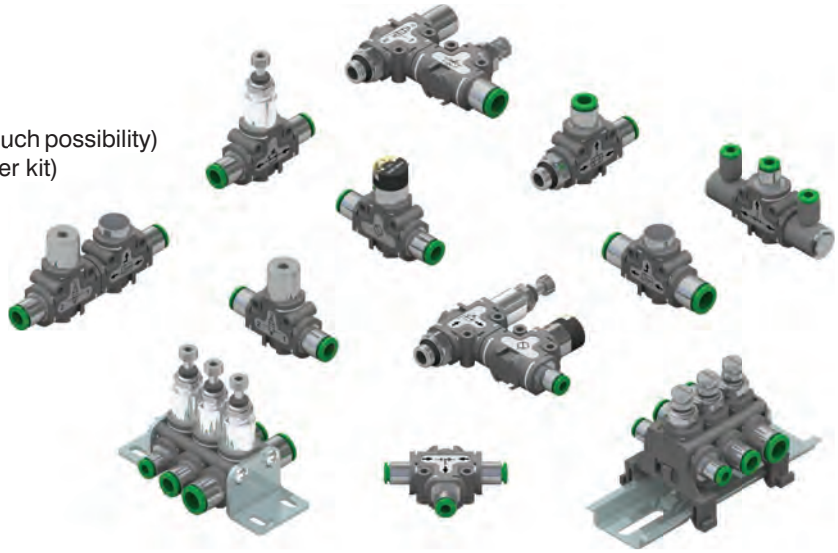
New compact line of different logic functions that can be used in any place of the secondary pneumatic circuit, developed to be installed directly onto the main pneumatic components (distributors or cylinders). Thanks to the modular design it is possible to easily join together multiple logic functions without the need of using pipes to connect them; it is also possible to choose the type and style of each connection. The connections available are the following: straight cartridge; Banjo PL cartridge; male cartridge threaded 1/8" or 1/4" and female cartridge threaded 1/8".
Function fittings can also be assembled side by side in order to be assembled on the DIN EN 50022 rail (using the relevant kit).

Other characteristics:

Technopolymer body
Input/output connection directly integrated into the body
In line or 90° connection
Possibility to build a manifold -parallel mounting-
Different connection options:
Tube Ø4 Ø6 Ø8 (elbow version as well)
G1/8" G1/4" male straight cartridge
G1/8" female cartridge, in line or 90°

Different mounting options:

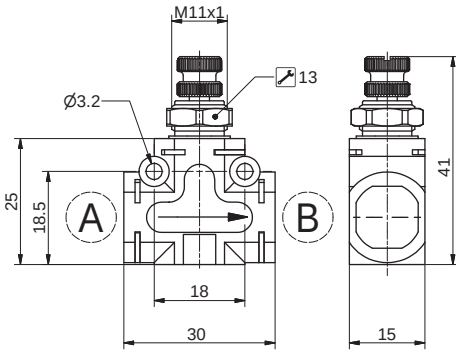
- Wall fixing through the holes in the body
- By means of the fixing bracket
- Panel mounting (for those function that include such possibility)
- On DIN rail EN 50022 (using the DIN rail adapter kit)



Available functions:

- Flow control valve (FCV)
- pressure regulator (PR)
- block valve (BV)
- quick exhaust valve (QEV)
- OR gate (CSV-OR)
- AND gate (CSV-AND)
- pressure gauge (PI)
- pressure regulator + pressure gauge (PR+PI)
- block valve + Flow control valve (BV+FCV)
- block valve + quick exhaust valve (BV+QEV)

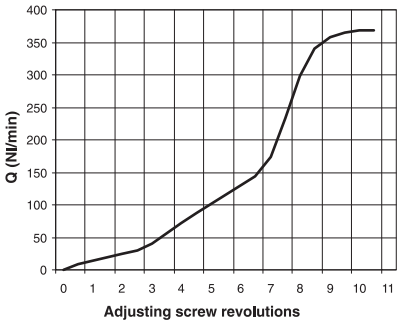
Flow regulator



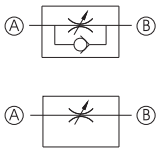
Ordering code	
551.11Ⓣ.Ⓐ.Ⓑ.XX	
Ⓣ	VERSION
	1 = Unidirectional
	2 = Bidirectional
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 =Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.111.D6.D6.XX
Flow control valve, unidirectional, CONNECTIONS "A" and "B" Tube Ø6

Flow-rates curves 6 bar



Pneumatic Symbol



Operational characteristics

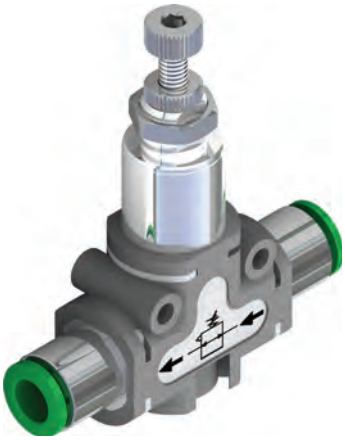
- The flow control valve is normally used to regulate the air flow and, as a consequence, for example, the speed of a cylinder. Two types of flow control valves are available: unidirectional and bidirectional. In the unidirectional valve the flow is regulated only in one direction while is free to move in the opposite direction; in the bidirectional valve the flow is regulated in both directions.
- Mounting options:
- panel mounting using the lock nut supplied as standard
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

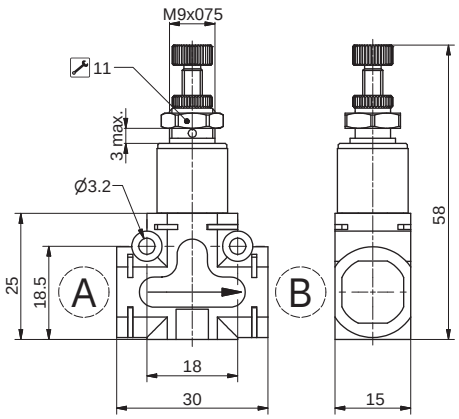
Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	10 bar
Temperature °C	-5 - +50
Weight without connections	26 gr.
Ø Orifice size (mm)	Ø3 mm
Free exhaust flow rate in the opposite side of the regulation (for unidirectional version)	800 Nl/min.

1

In line pressure regulator

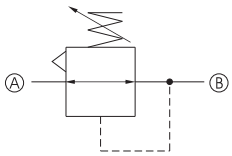




Ordering code	
551.12Ⓣ.Ⓐ.Ⓑ.XX	
Ⓣ	VERSION
	2 = 0 - 2 bar
	4 = 0 - 4 bar
	8 = 0 - 8 bar
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.128.D8.D8.XX
In line pressure regulator, Pressure range (bar) 0 - 8 bar. CONNECTIONS "A" and "B" Tube Ø8

Pneumatic Symbol



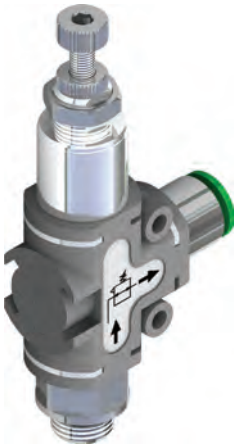
Operational characteristics

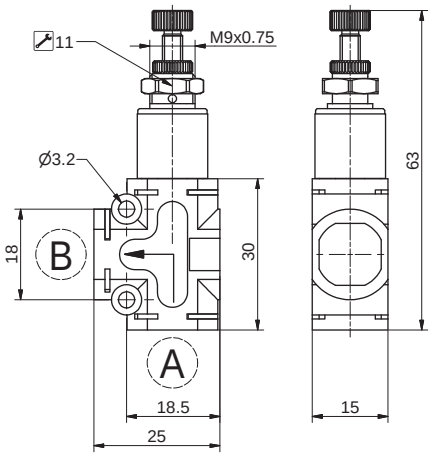
- The pressure regulator is a device which is used to reduce, regulate and stabilize the air pressure in a conduit in order to adapt it to the needs of the equipments to be supplied. The pressure regulator incorporates the relieving function.
- Mounting options:
- panel mounting using the lock nut supplied as standard
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max inlet pressure	10 bar
Temperature °C	-5 - +50
Weight without connections	31 gr.
Flow rate at 6 bar with Δp=1 (Nl/min)	180 Nl/min
Regulated Pressure range (bar)	0 - 2 bar 0 - 4 bar 0 - 8 bar

90° pressure regulator

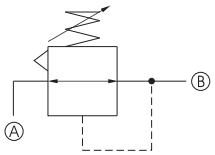




Ordering code	
551.22Ⓣ.Ⓐ.Ⓑ.XX	
Ⓣ	VERSION
	2 = 0 - 2 bar
	4 = 0 - 4 bar
	8 = 0 - 8 bar
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.224.M1.D6.XX
90° pressure regulator, Pressure range (bar) 0 - 4 bar. CONNECTIONS "A" Male G1/8 and "B" Tube Ø6

Pneumatic Symbol



Operational characteristics

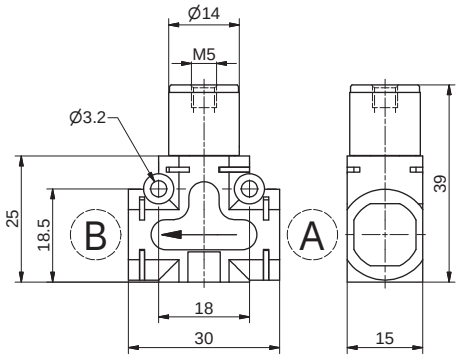
- The pressure regulator is a device which is used to reduce, regulate and stabilize the air pressure in a conduit in order to adapt it to the needs of the equipments to be supplied. The pressure regulator incorporates the relieving function.
- Mounting options:
- panel mounting using the lock nut supplied as standard
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max inlet pressure	10 bar
Temperature °C	-5 - +50
Weight without connections	31 gr.
Flow rate at 6 bar with Δp=1 (Nl/min)	180 Nl/min
Regulated Pressure range (bar)	0 - 2 bar 0 - 4 bar 0 - 8 bar

1

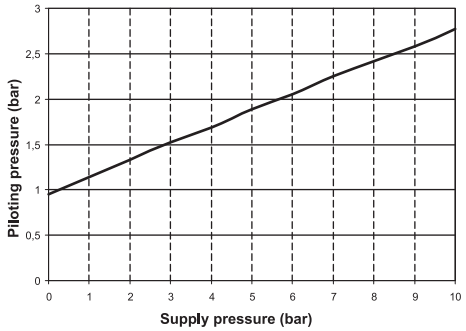
Blocking valve



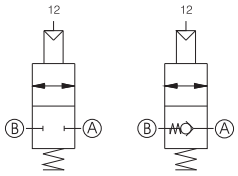
Ordering code	
551.13Ⓣ.Ⓐ.Ⓑ.XX	
Ⓣ	VERSION
	1 = Unidirectional
	2 = Bidirectional
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.131.D4.D4.XX
In line blocking valve, unidirectional, CONNECTIONS "A" and "B" Tube Ø4

Piloting curves



Pneumatic Symbol



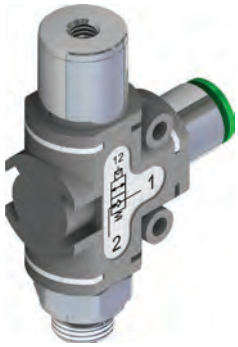
Operational characteristics

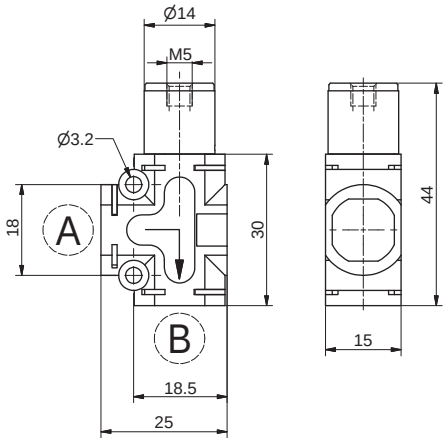
- The blocking valve function is to maintain the circuit downstream pressure in the event of loss of supply pressure. It is normally fitted directly onto the cylinder connections ports in order to ensure that, in case of accidental loss of the supply pressure, the units positions is maintained. This is achieved as the blocking valve preserves the pressure inside the pressurised chamber. Blocking valves can be unidirectional or bidirectional. In the unidirectional version the air flow is free in one direction while in order to allow the flow in the opposite direction is necessary to send a pneumatic signal to the unit connection 12. The bidirectional version requires a pneumatic signal on connection 12 to allow the flow in any of the two directions.
- Mounting options:
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Working pressure	0,5 - 10 bar
Temperature °C	-5 - +50
Weight without connections	26 gr.
Flow rate at 6 bar with Δp=1 (Nl/min) Unidirectional and bidirectional version	285 Nl/min
Flow rate at 6 bar with free exhaust Unidirectional and bidirectional version	450 Nl/min

90° blocking valve

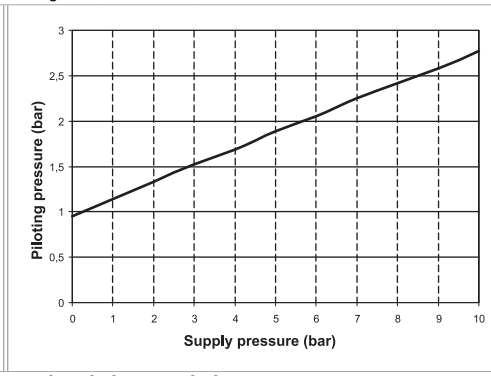




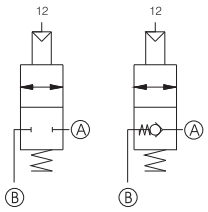
Ordering code	
551.23Ⓣ.Ⓐ.Ⓑ.XX	
Ⓣ	VERSION
	1 = Unidirectional
	2 = Bidirectional
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.231.M1.D6.XX
90° blocking valve, unidirectional, CONNECTIONS "A" Male G1/8 and "B" Tube Ø6

Piloting curves



Pneumatic Symbol



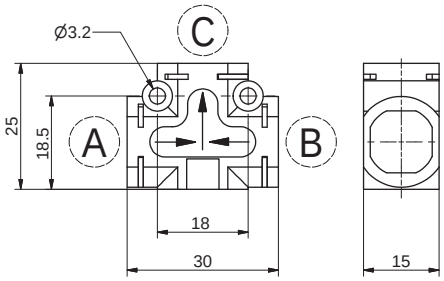
Operational characteristics

- The blocking valve function is to maintain the circuit downstream pressure in the event of loss of supply pressure. It is normally fitted directly onto the cylinder connections ports in order to ensure that, in case of accidental loss of the supply pressure, the units positions is maintained. This is achieved as the blocking valve preserves the pressure inside the pressurised chamber. Blocking valves can be unidirectional or bidirectional. In the unidirectional version the air flow is free in one direction while in order to allow the flow in the opposite direction is necessary to send a pneumatic signal to the unit connection 12. The bidirectional version requires a pneumatic signal on connection 12 to allow the flow in any of the two directions.
- Mounting options:
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Working pressure	0,5 - 10 bar
Temperature °C	-5 - +50
Weight without connections	26 gr.
Flow rate at 6 bar with Δp=1 (Nl/min) Unidirectional and bidirectional version	285 Nl/min
Flow rate at 6 bar with free exhaust Unidirectional and bidirectional version	450 Nl/min

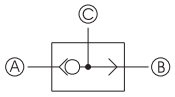
Circuit selector valve - OR



Ordering code	
551.141.Ⓐ.Ⓑ.Ⓒ	
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	CONNECTIONS B see CONNECTIONS LIST
Ⓒ	Connection C see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.141.D8.D8.D8
Circuit selector valve OR, CONNECTIONS "A", "B" and "C" Tube Ø8

Pneumatic Symbol



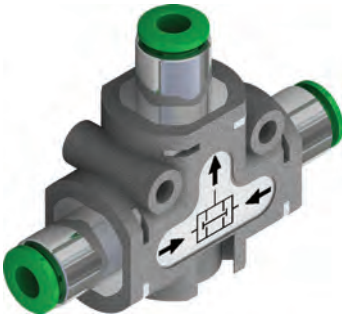
Operational characteristics

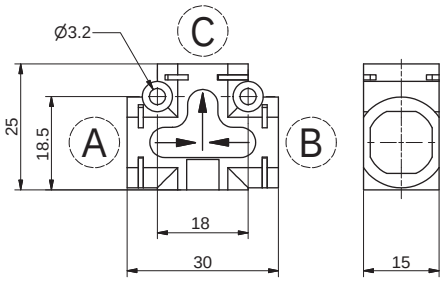
- These valves have two inlets and one output connection and are normally called high pressure selector valves as, when receiving two separate pressure supply, only allow the passage of the highest pressure. The most common application is to operate a component from two separate positions.
- Mounting options:
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	10 bar
Temperature °C	-5 - +50
Weight without connections	10 gr.
Flow rate at 6 bar with Δp=1 (Nl/min)	600 Nl/min

Circuit selector valve - AND

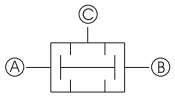




Ordering code	
551.151.Ⓐ.Ⓑ.Ⓒ	
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	CONNECTIONS B see CONNECTIONS LIST
Ⓒ	Connection C see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.151.D6.D6.D6
Circuit selector valve AND, CONNECTIONS "A", "B" and "C" Tube Ø6

Pneumatic Symbol



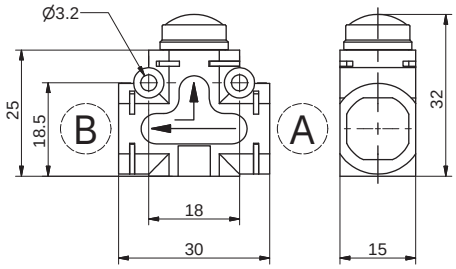
Operational characteristics

- These valves have two inlets and one output connection and are normally called low pressure selector valves as, when receiving two separate pressure supply, only allow the passage of the lowest pressure. The most common application is to operate a component from two separate positions.
- Mounting options:
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	10 bar
Temperature °C	-5 - +50

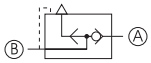
Quick exhaust valve



Ordering code	
551.161.Ⓐ.Ⓑ.XX	
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 =Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.161.D8.D8.XX
Quick exhaust valve, CONNECTIONS "A" and "B" Tube Ø8

Pneumatic Symbol



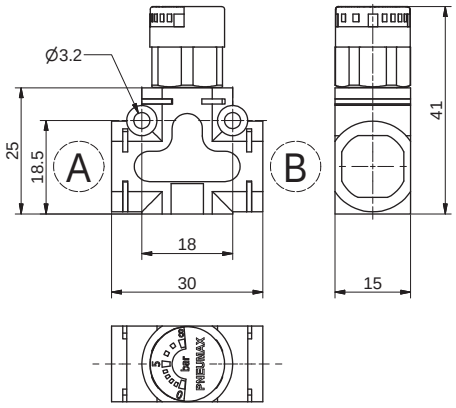
Operational characteristics

- These are 3 ways, two positions valves which can be directly mounted onto the actuator or between the actuator and the control valve. Their function is to discharge the air directly into the atmosphere without going through the pneumatic circuit enabling the actuator to reach the maximum speed.
- Mounting options:
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	10 bar
Temperature °C	-5 - +50
Weight without connections	15 gr.
Flow rate at 6 bar with Δp=1 (Nl/min) (from 1 to 2)	250 Nl/min
Flow rate at 6 bar with free exhaust (from 2 to 3)	500 Nl/min

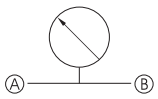
Pressure indicator



Ordering code	
551.178.Ⓐ.Ⓑ.XX	
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.178.D6.D4.XX
Pressure indicator, CONNECTIONS "A" Tube Ø6, "B" Tube Ø4

Pneumatic Symbol



Operational characteristics

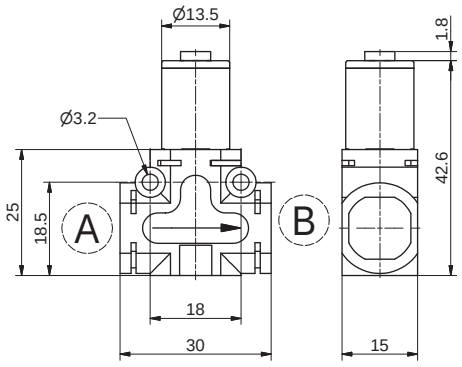
- The pressure visual indicator is a device which measures the pressure inside a pneumatic circuit. The 0 to 8 bar visual indicator makes very easy to monitor the pressure state inside the circuit. It can be use on its own or can be coupled with another device.
- Mounting options:
- on DIN rail using the relevant adaptor kit (see accessories)
- with 90° bracket (see accessories)
- directly on the support plate thanks to two through holes on the body

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	8 bar
Visualization scale	0 - 8 bar
Temperature °C	-5 - +50
Weight without connections	20,5 gr.

1

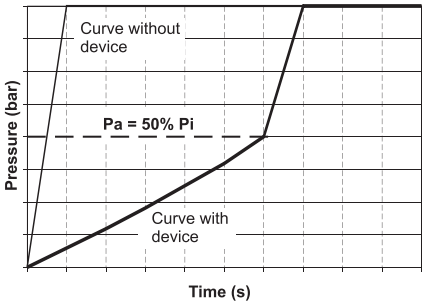
In line progressive star-up valve



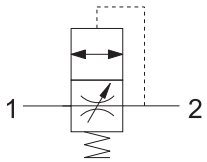
Ordering code	
551.181.Ⓐ.Ⓑ.XX	
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.181.D6.D4.XX
Progressive start-up, CONNECTIONS "A" Tube Ø6, "B" Tube Ø4

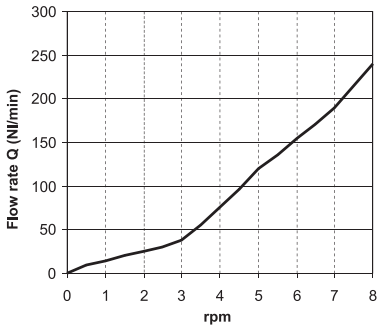
Piloting curves



Pneumatic Symbol



Adjustment curve



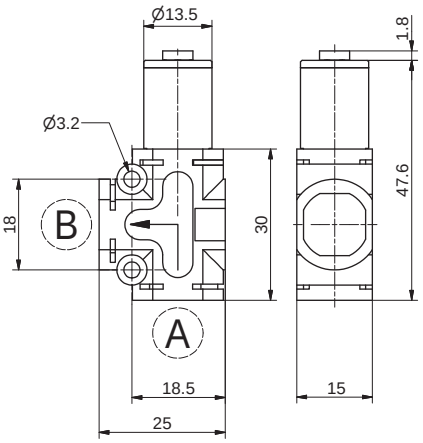
Operational characteristics

- The soft start valve is a device designed to gradually pressurise the downstream circuit until 50% of the upstream pressure value is reached.
- Once the 50% of the upstream pressure value is reached in the down stream circuit the valve fully opens allowing full air passage.
- The filling time can be adjusted thanks to the built in flow regulator.
- This device is used in order to ensure that during the pneumatic circuit start up the cylinders will return to theirs home position slowly avoiding collisions or sudden movements.

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	2 - 10 bar
Opening pressure (Pa)	50% of the inlet pressure (Pi)
Flow rate at 6 bar with free exhaust (Nl/min)	650 Nl/min (from 1 to 2 with opening ciruit)
Flow rate at 6 bar with Δp=1 (Nl/min)	350 Nl/min (from 1 to 2 with opening ciruit)
Flow rate at 6 bar with Δp=1 (Nl/min)	600 Nl/min (from 2 to 1 with opening pin)
Temperature °C	-5 - +50
Weight without connections	31 gr.

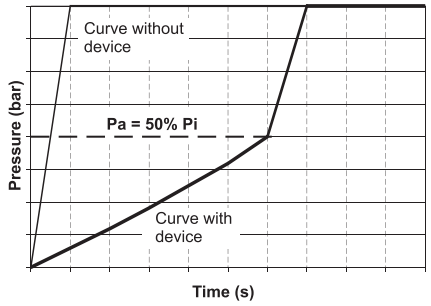
90° progressive star-up valve



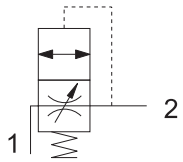
Ordering code	
551.281.Ⓐ.Ⓑ.XX	
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.281.M1.D4.XX
Progressive start-up, CONNECTIONS "A" Tube Ø6, "B" Tube Ø4

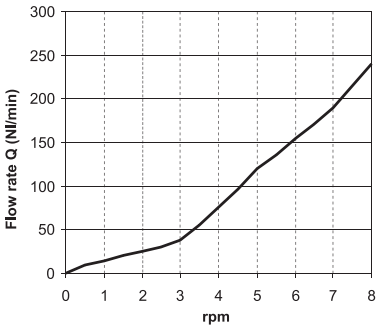
Piloting curves



Pneumatic Symbol



Adjustment curve



Operational characteristics

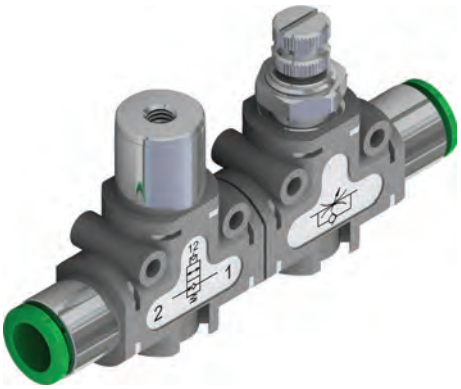
- The soft start valve is a device designed to gradually pressurise the downstream circuit until 50% of the upstream pressure value is reached.
- Once the 50% of the upstream pressure value is reached in the down stream circuit the valve fully opens allowing full air passage.
- The filling time can be adjusted thanks to the built in flow regulator.
- This device is used in order to ensure that during the pneumatic circuit start up the cylinders will return to theirs home position slowly avoiding collisions or sudden movements.

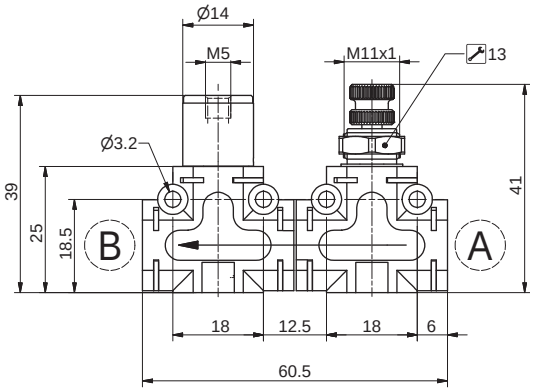
Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	2 - 10 bar
Opening pressure (Pa)	50% of the inlet pressure (Pi)
Flow rate at 6 bar with free exhaust (Nl/min)	650 Nl/min (from 1 to 2 with opening ciruit)
Flow rate at 6 bar with Δp=1 (Nl/min)	350 Nl/min (from 1 to 2 with opening ciruit)
Flow rate at 6 bar with Δp=1 (Nl/min)	600 Nl/min (from 2 to 1 with opening pin)
Temperature °C	-5 - +50
Weight without connections	31 gr.

1

In line blocking valve + flow control valve

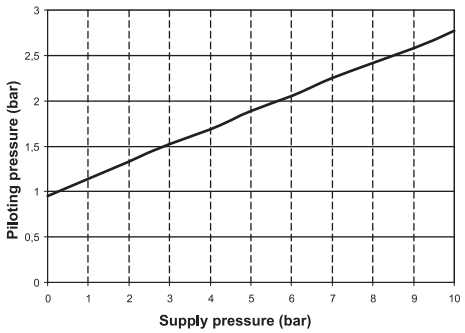




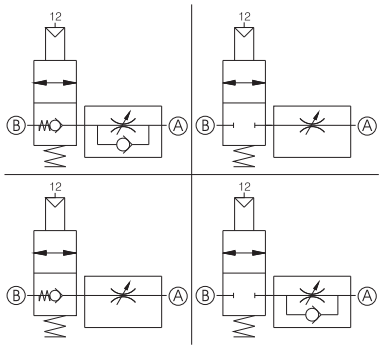
Ordering code	
551.1F(T).(A).(B).XX	
	VERSION
(T)	1 = Unidirectional blocking valve + Unidirectional flow control val-
	2 = Bidirectional blocking valve + Bidirectional flow control valve
	3 = Unidirectional blocking valve + Bidirectional flow control valve
	4 = Bidirectional blocking valve + Unidirectional flow control valve
(A)	see CONNECTIONS LIST A
(B)	see CONNECTIONS LIST B
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.1F1.00.00.XX
In line unidirectional blocking valve + unidirectional flow control valve, without CONNECTIONS "A" and "B"

Piloting curves



Pneumatic Symbol



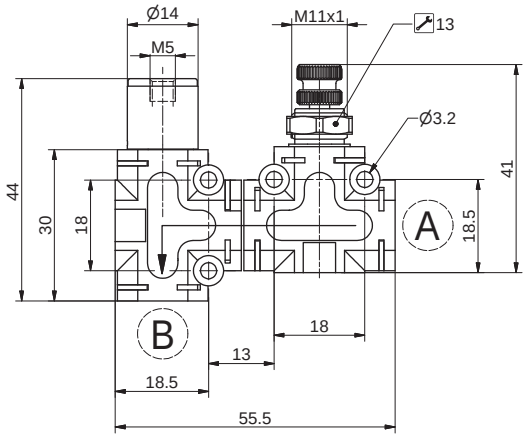
Operational characteristics

- The combination of this two functions ensures that the downstream pressure is maintained in case of accidental loss of supply pressure and at the same time grants the possibility to regulate the circuit flow rate. A typical application of this combination is close to or directly assembled onto the actuator connection ports. This allows to keep pressurised the cylinder chamber in case of accidental loss of supply pressure and to regulate the exhaust flow rate when the blocking valve is actuated.
- The possible combinations are the following:
- unidirectional blocking valve + unidirectional flow control valve.
- bidirectional blocking valve + bidirectional flow control valve
- bidirectional blocking valve + unidirectional flow control valve
- unidirectional blocking valve + bidirectional flow control valve

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	0,5 - 10 bar
Temperature °C	-5 - +50
Ø Orifice size (mm)	Ø3 mm
Flow rate at 6 bar with Δp=1 (Nl/min)	285 Nl/min
Weight without connections	62 gr.

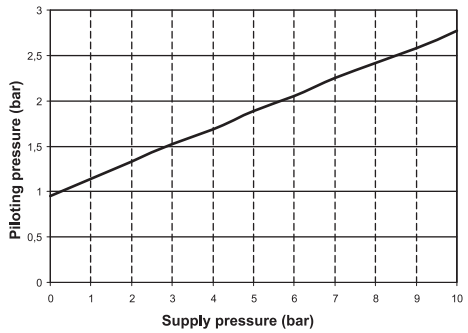
90° blocking valve + flow control valve



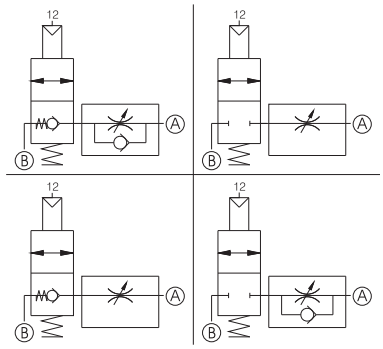
Ordering code	
551.2F(T).(A).(B).XX	
(T)	VERSION
	1 = Unidirectional blocking valve + Unidirectional flow control val-
	2 = Bidirectional blocking valve + Bidirectional flow control valve
	3 = Unidirectional blocking valve + Bidirectional flow control valve
	4 = Bidirectional blocking valve + Unidirectional flow control valve
(A)	see CONNECTIONS LIST A
(B)	see CONNECTIONS LIST B
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjoØ 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.2F1.00.00.XX
90° unidirectional blocking valve + unidirectional flow control valve, without CONNECTIONS "A" and "B"

Piloting curves



Pneumatic Symbol



Operational characteristics

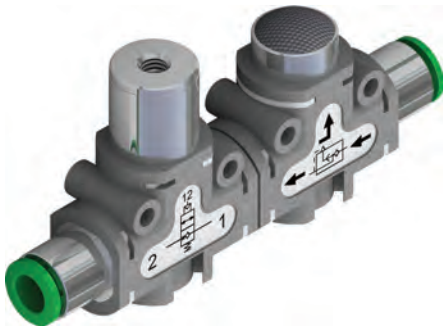
- The combination of this two functions ensures that the downstream pressure is maintained in case of accidental loss of supply pressure and at the same time grants the possibility to regulate the circuit flow rate. A typical application of this combination is close to or directly assembled onto the actuator connection ports. This allows to keep pressurised the cylinder chamber in case of accidental loss of supply pressure and to regulate the exhaust flow rate when the blocking valve is actuated.
- The possible combinations are the following:
- 90° unidirectional blocking valve + unidirectional flow control valve.
- 90° bidirectional blocking valve + bidirectional flow control valve
- 90° bidirectional blocking valve + unidirectional flow control valve
- 90° unidirectional blocking valve + bidirectional flow control valve

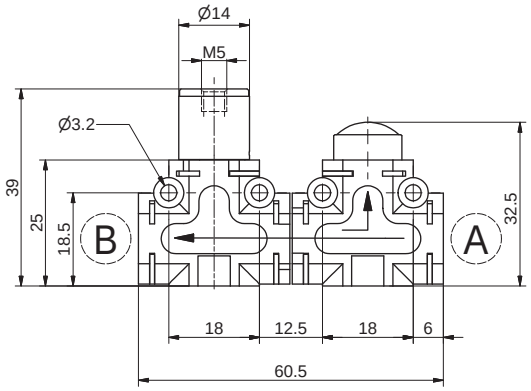
Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	0,5 - 10 bar
Temperature °C	-5 - +50
Ø Orifice size (mm)	Ø3 mm
Flow rate at 6 bar with Δp=1 (Nl/min)	285 Nl/min
Weight without connections	62 gr.

1

In line blocking valve + quick exhaust valve

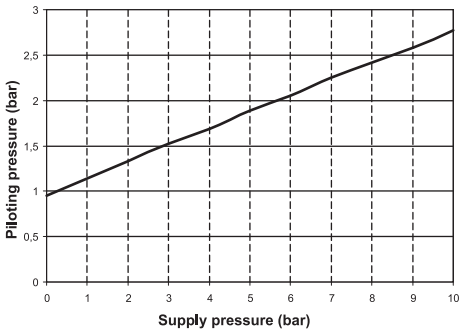




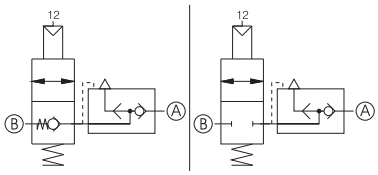
Ordering code	
551.1GⓉ.Ⓐ.Ⓑ.XX	
	VERSION
Ⓣ	1 = Unidirectional blocking valve + quick exhaust valve
	2 = Bidirectional blocking valve + quick exhaust valve
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.1G1.00.00.XX
In line unidirectional blocking valve + quick exhaust valve, without CONNECTIONS "A" and "B"

Piloting curves



Pneumatic Symbol



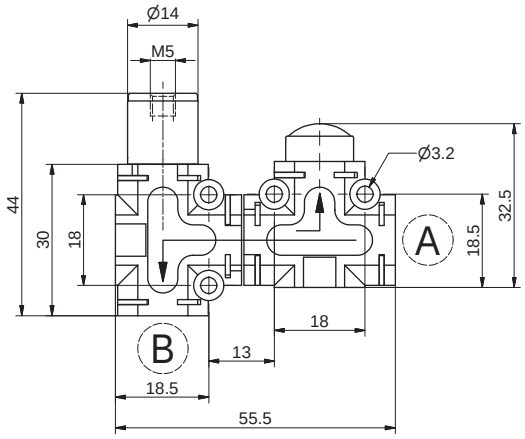
Operational characteristics

- The combination of this two functions ensures that the downstream pressure is maintained in case of accidental loss of supply pressure and at the same time allows for the air to be directly discharged into the atmosphere without going through the pneumatic circuit. A typical application of this combination is close to or directly assembled onto the actuator connection ports. This allows to keep pressurised the cylinder chamber in case of accidental loss of supply pressure and to quickly discharge the same chamber when the blocking valve is actuated.
- The possible combination are the following:
- unidirectional blocking valve + quick exhaust valve
- bidirectional blocking valve + quick exhaust valve.

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	0,5 - 10 bar
Temperature °C	-5 - +50
Weight without connections	51 gr.
Flow rate at 6 bar with Δp=1 (Nl/min)	285 Nl/min

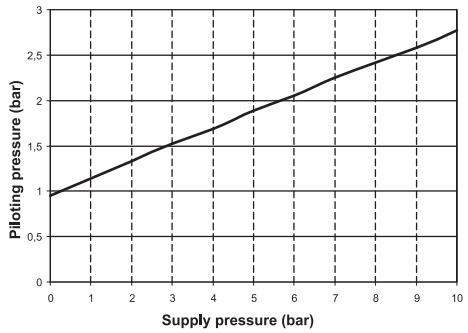
90° blocking valve + quick exhaust valve



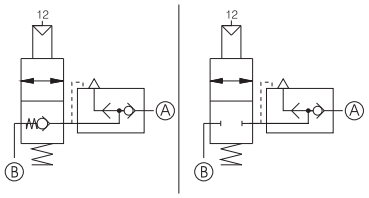
Ordering code	
551.2GⓉ.Ⓐ.Ⓑ.XX	
	VERSION
Ⓣ	1 = 90° Unidirectional blocking valve + quick exhaust valve
	2 = 90° Bidirectional blocking valve + quick exhaust valve
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.2G1.00.00.XX
90° unidirectional blocking valve + quick exhaust valve, without CONNECTIONS "A" and "B"

Piloting curves



Pneumatic Symbol



Operational characteristics

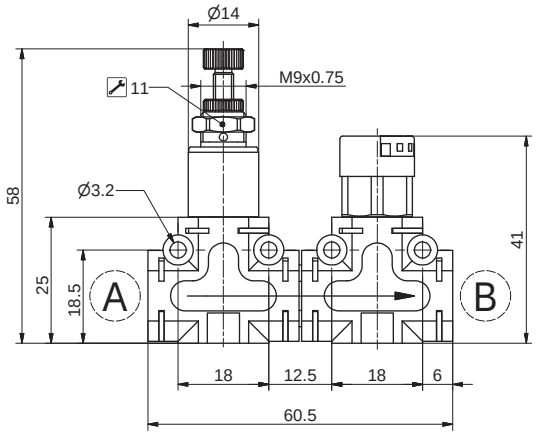
- The combination of this two functions ensures that the downstream pressure is maintained in case of accidental loss of supply pressure and at the same time allows for the air to be directly discharged into the atmosphere without going through the pneumatic circuit. A typical application of this combination is close to or directly assembled onto the actuator connection ports. This allows to keep pressurised the cylinder chamber in case of accidental loss of supply pressure and to quickly discharge the same chamber when the blocking valve is actuated.
- The possible combination are the following:
- 90° unidirectional blocking valve + quick exhaust valve
- 90° bidirectional blocking valve + quick exhaust valve.

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	0,5 - 10 bar
Temperature °C	-5 - +50
Weight without connections	51 gr.
Flow rate at 6 bar with Δp=1 (Nl/min)	285 Nl/min

1

In line pressure regulator + pressure indicator



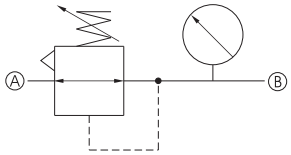
Ordering code

551.1HⓉ.Ⓐ.Ⓑ.XX

	VERSION
Ⓣ	2 = 0 - 2 bar
	4 = 0 - 4 bar
	8 = 0 - 8 bar
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.1H2.M1.D4.XX
In line pressure regulator, adjusting range 0 - 2 bar + pressure indicator, CONNECTIONS "A" Male G 1/8 and "B" Tube Ø4

Pneumatic Symbol



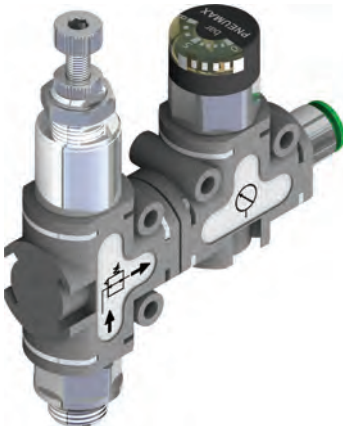
Operational characteristics

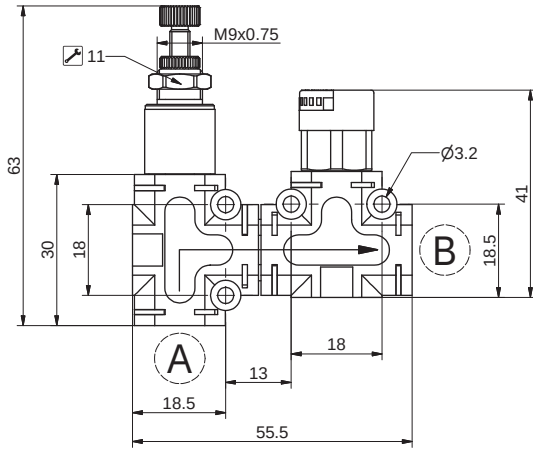
- The combination of this two functions ensures the possibility to regulate the downstream pressure while directly visualising the adjusted pressure value.
- The possible combinations are the following:
- 0 to 2 bar pressure regulator + pressure visual indicator
- 0 to 4 bar pressure regulator + pressure visual indicator
- 0 to 8 bar pressure regulator + pressure visual indicator
- the visual indicator Pressure range (bar) is always 0 to 8 bar

Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	8 bar
Temperature °C	-5 - +50
Visualization scale	0 - 8 bar
Regulated Pressure range (bar)	0 - 2 bar 0 - 4 bar 0 - 8 bar
Weight without connections	62 gr.

90° pressure regulator + pressure indicator

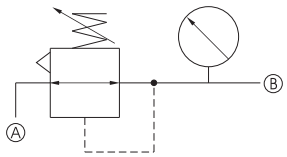




Ordering code	
551.2HⓉ.Ⓐ.Ⓑ.XX	
Ⓣ	VERSION
	2 = 0 - 2 bar
	4 = 0 - 4 bar
	8 = 0 - 8 bar
Ⓐ	Connection A see CONNECTIONS LIST
Ⓑ	Connection B see CONNECTIONS LIST
	CONNECTIONS LIST
	00 = None
	D4 = Straight Ø4
	D6 = Straight Ø6
	D8 = Straight Ø8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø 4
	G6 = Rotating banjo Ø 6
	G8 = Rotating banjo Ø 8
	M1 = G1/8 male
	M2 = G1/4 male
	F1 = G1/8 female

NOTE : For the dimension including cartridges see page CONNECTIONS
Example: 551.2H2.M1.D4.XX
90° pressure regulator, adjusting range 0 - 2 bar + pressure indicator, CONNECTIONS "A" Male G 1/8 and "B" Tube Ø4

Pneumatic Symbol



Operational characteristics

- The combination of this two functions ensures the possibility to regulate the downstream pressure while directly visualising the adjusted pressure value.
- The possible combinations are the following:
- 0 to 2 bar pressure regulator + pressure visual indicator
- 0 to 4 bar pressure regulator + pressure visual indicator
- 0 to 8 bar pressure regulator + pressure visual indicator
- the visual indicator Pressure range (bar) is always 0 to 8 bar

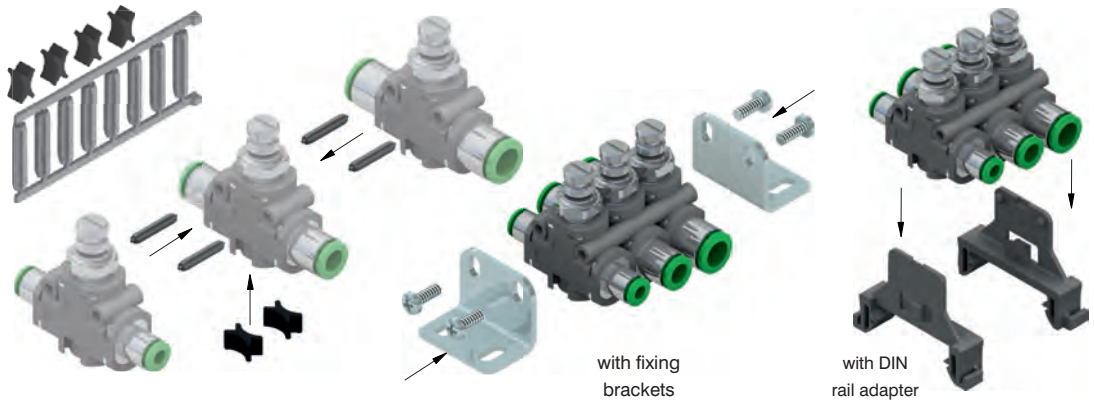
Technical characteristics

Fluid	Filtered air, with or without lubrication lubricated air or not
Connections	See CONNECTIONS LIST
Max working pressure (bar)	8 bar
Temperature °C	-5 - +50
Visualization scale	0 - 8 bar
Regulated Pressure range (bar)	0 - 2 bar 0 - 4 bar 0 - 8 bar
Weight without connections	62 gr.

Coupling kit (pins and forks)

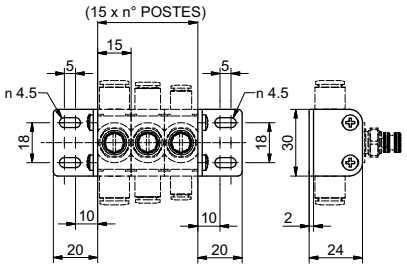
Ordering code

55160



Weight 2,5 gr. - The kit, which includes a series of pins and forks, enables to join together in a fast and safe way the function fittings. The pins, once inserted in the front holes, ensure resistance against forces applied perpendicularly and sideway (for example the insertion of the tube in the cartridges). The forks, once located in the profiled housing ensures that the parts are held together tightly. The kit allows for 5 function fittings to be mounted together.

Fixing brackets

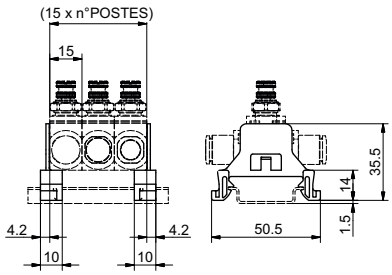


Ordering code

55150

Weight gr. 18
The kit comprises two fixing brackets and the screws

DIN rail adapter

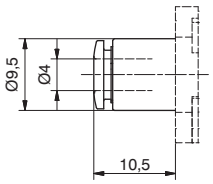


Ordering code

55116

Weight gr. 4
The kit comprises two adapters

Ø4 straight cartridge

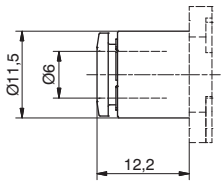


Ordering code

551KD4

Weight 7,5 gr.

Ø6 straight cartridge

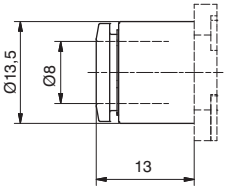


Ordering code

551KD6

Weight 7,3 gr.

Ø8 straight cartridge

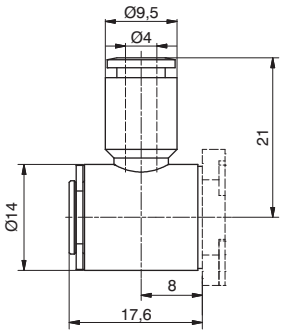


Ordering code

551KD8

Weight 7 gr.

Ø4 banjo PL cartridge



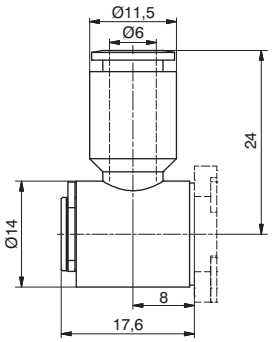
Ordering code

551KG4

Weight 13,6 gr.

1

Ø6 banjo PL cartridge

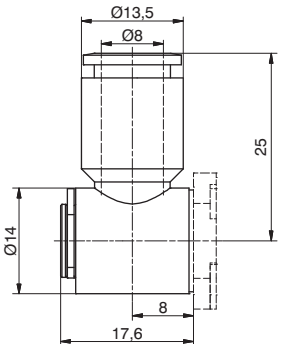


Ordering code

551KG6

Weight 14 gr.

Ø8 banjo PL cartridge

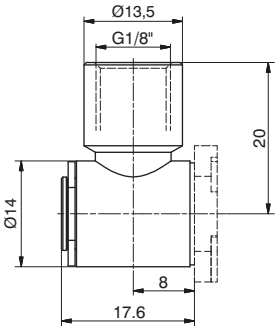


Ordering code

551KG8

Weight 14,3 gr.

G1/8" banjo female cartridge

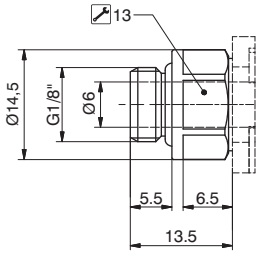


Ordering code

551KL1

Weight 30 gr.

G1/8" male straight cartridge

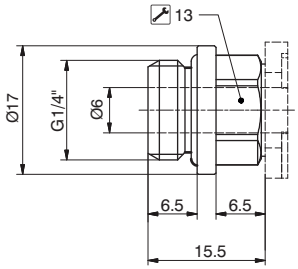


Ordering code

551KM1

Weight 14 gr.

G1/4" male straight cartridge

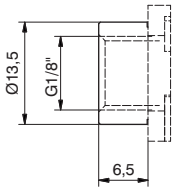


Ordering code

551KM2

Weight 20 gr.

G1/8" female straight cartridge



Ordering code

551KF1

Weight 9 gr.

Connection for multiple function

Ordering code

551KUU

Weight 14 gr.