

# **Series 55 Tecno-FUN**

# General

This 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).

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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).



# Available functions

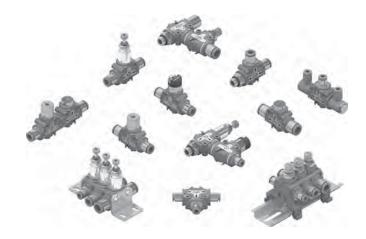
- Flow control valve
- Pressure regulator
- Block valve
- Quick exhaust valve
- OR gate
- AND gate
- Pressure gauge
- Progressive start-up valve
- Pressure regulator + pressure gauge Block valve + Flow control valve ٠
- •
- Block valve + quick exhaust valve

### 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 bodyBy 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)

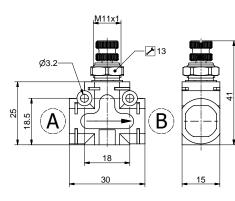






# Coding: 551.11**1**.**(2**.**(3**).XX





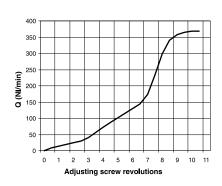
	TYPE			
Û	1 = Unidirectional			
	2 = Bidirectional			
A	CONNECTION A			
9	SEE CONNECTIONS LIST			
B	CONNECTION B			
9	SEE CONNECTIONS LIST			
	CONNECTIONS LIST			
	<b>00</b> = None			
	D4 = StraightØ4			
	D6 = StraightØ6			
	D8 = StraightØ8			
	L1 = Female banjo G1/8"			
G4 = Rotating banjo Ø 4				
	G6 = Rotating banjo Ø6			
G8 = Rotating banjo Ø 8 $M1 = G1/8"male$				
	F1 = G1/8" female			

#### Example: 551.111.D6.D6.XX

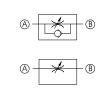
**Flow regulator** 

Flow control valve unidirectional, CONNECTIONS "A" and "B" Tube Ø6 NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### Piloting curves



Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice



- The flow control valve is normally used to regulate the air flow and, as a consequence, for example, the spee
  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; i
  the bidirectional valve the flow is regulated in both directions.
  Prove Investing which are interesting to the prove the pr

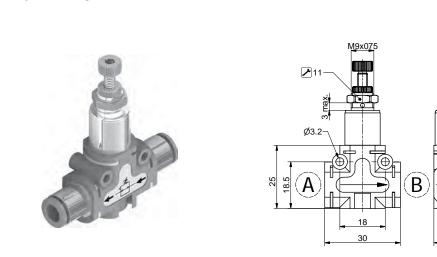
- Panel mounting using the lock nut supplied as standard
  on DIN rail using the relevant adaptor kit (see accessories)
  With 90° bracket (see accessories)
  directly on the support plate thanks to two through holes on the body

	Technical characteristics		
ed	Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
; in	Working ports size	See CONNECTIONS LIST	
	Max working pressure (bar)	10	
	Orifice size (mm)	Ø3	
	Free exhaust flow rate in the opposite side of the regulation	800 (for unidirectional version)	
	Temperature °C	-5 ÷ +50	
	Weight (g)	26	



#### In line pressure regulator

#### 551.12**0.@.B**.XX Coding:



	TYPE					
-	<b>2</b> = 0-2 bar					
0	<b>4</b> = 0-4 bar					
	<b>8</b> = 0-8 bar					
A	CONNECTION A					
	SEE CONNECTIONS LIST					
B	CONNECTION B					
Θ	SEE CONNECTIONS LIST					
	CONNECTIONSLIST					
	<b>00</b> = None					
	D4 = StraightØ4					
D6 = StraightØ6 D8 = StraightØ8 L1 = Female banjo G1/8"						
			G4 = Rotating banjo Ø4			
				G6 = Rotating banjo Ø6		
	G8 = Rotating banjo Ø8					
	M1 = G1/8" male					
	M2 = G1/4" male					
	F1 = G1/8" female					

58

63

#### Example: 551.128.D8.D8.XX

**AIR DISTRIBUTION** 

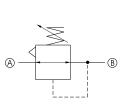
In line pressure regulator, pressure range (bar) 0-8 bar. Connections "A" and "B" Tube Ø6 NOTE : For the dimension including cartridges see page Accessories - Function fittings

# **Construction 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.
- Panel mounting using the lock nut supplied as standard on DIN rail using the relevant adaptor kit (see accessories) With 90° bracket (see accessories)
- d

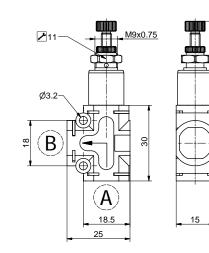
directly on the support plate thanks to two through holes on the body	

Technical characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	10	
Flow rate at 6 bar with $\Delta p = 1$ (NI/ min)	180	
Pressure range (bar)	0÷2/0÷4/0÷8	
Temperature °C	-5 ÷ +50	
Weight (g)	31	



# 90° pressure regulator





#### Coding: 551.22**0**.**A**.**B**.XX

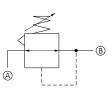
	TYPE		
-	<b>2</b> = 0-4 bar		
Ū	<b>4</b> = 0-2 bar		
	<b>8</b> = 0-8 bar		
A	CONNECTION A		
	SEE CONNECTIONS LIST		
B	CONNECTION B		
υ	SEE CONNECTIONS LIST		
	CONNECTIONS LIST		
	00 = None		
	D4 = StraightØ4		
	D6 = StraightØ6		
	D8 = StraightØ8		
	L1 = Female banjo G1/8"		
<b>G4</b> = Rotating banjo Ø 4 <b>G6</b> = Rotating banjo Ø 6			
	M1 = G1/8" male		
	M2 = G1/4" male		
	F1 = G1/8" female		

#### Example: 551.224.M1.D6.XX

90° pressure regulator, pressure range (bar) 0 - 4 bar. Connections "A" Male G1/8 and "B" Tube Ø6 NOTE : For the dimension including cartridges see page Accessories - Function fittings

- 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.
   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

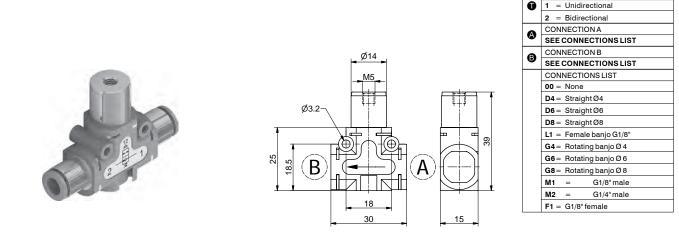
Technical characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	10	
Flow rate at 6 bar with $\Delta p=1$ (NI/ min)	180	
Pressure range (bar)	0÷2/0÷4/0÷8	
Temperature °C	-5 ÷ +50	
Weight (g)	31	





#### 551.13**0.@.**XX Coding:

TYPE



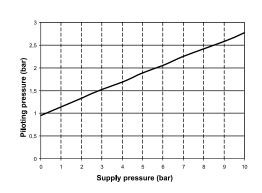
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Example: 551.131.D4.D4.XX

**Blocking valve** 

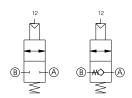
In line blocking valve, unidirectional. Connections "A" and "B" Tube Ø4 NOTE : For the dimension including cartridges see page Accessories - Function fittings

Piloting curves



#### **Construction 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. 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. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	0,5 ÷ 10	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	285	
Flow rate at 6 bar with free exhaust (NI/min)	450	
Temperature °C	-5 ÷ +50	
Weight (g)	26	

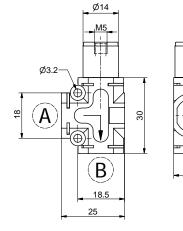
1



#### 90° blocking valve

#### 551.23**0**.**@**.**X**X Coding:





Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

		TYPE
	O	1 = Unidirectional
	-	2 = Bidirectional
	A	CONNECTION A
		SEE CONNECTIONS LIST
	8	CONNECTION B
<b>r</b>	9	SEE CONNECTIONS LIST
F		CONNECTIONS LIST
		<b>00</b> = None
		D4 = StraightØ4
		D6 = StraightØ6
		D8 = StraightØ8
		L1 = Female banjo G1/8"
		G4 = Rotating banjo Ø4
		G6 = Rotating banjoØ6
ł		G8 = Rotating banjo Ø8
L		M1 = G1/8" male
		M2 = G1/4" male
		F1 = G1/8" female

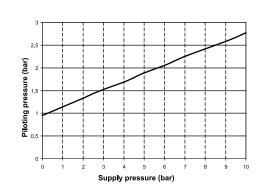
4

15

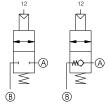
#### Example: 551.231.D6.M1.XX

90° blocking valve. Connections "A" Male G1/8 and "B" Tube Ø6 NOTE : For the dimension including cartridges see page Accessories - Function fittings

Piloting curves



- 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. Unidirectional and bidirectional version are both available.
- In the unidirectional version the air flow is free born available. 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.
- Wo inections. 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
- -

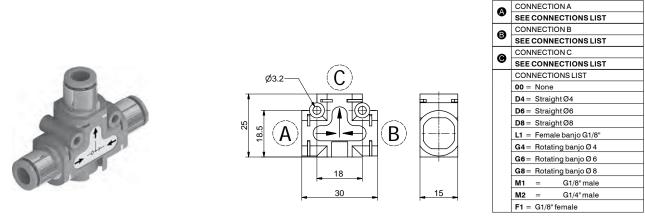


Technical characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	0,5 ÷ 10	
Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	285	
Flow rate at 6 bar with free exhaust (NI/min)	450	
Temperature °C	-5 ÷ +50	
Weight (g)	26	



#### **Circuit selector valve - OR**

# Coding: 551.141.



#### Example: 551.141.D8.D8.D8

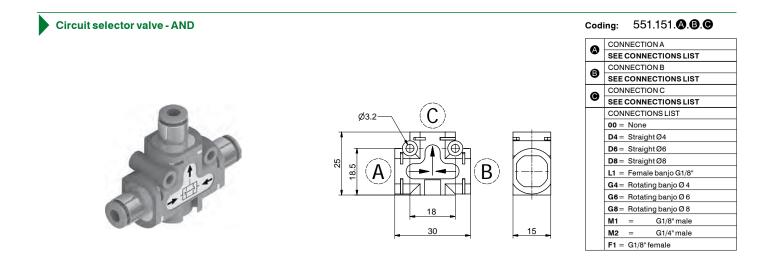
Circuit selector valve - OR. Connections "A". "B" and "C" Tube Ø8 NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### **Construction 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. 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. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	10	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	600	
Temperature °C	-5 ÷ +50	
Weight (g)	10	





#### Example: 551.151.D6.D6.D6

Circuit selector valve AND. Connections "A", "B" and "C" Tube Ø6 NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### **Construction 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
- 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. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	10	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	550	
Temperature °C	-5 ÷ +50	
Weight (g)	10	





#### **Quick exhaust valve**

#### 

		A	CONNECTION A SEE CONNECTIONS LIST
		B	CONNECTION B
		U	SEE CONNECTIONS LIST
			CONNECTIONS LIST
			<b>00</b> = None
	Ø3.2		D4 = StraightØ4
			D6 = StraightØ6
			D8 = StraightØ8
			L1 = Female banjo G1/8"
			G4 = Rotating banjoØ4
0 2 4			G6 = Rotating banjoØ6
			G8 = Rotating banjoØ8
			M1 = G1/8" male
and the second sec	18		M2 = G1/4" male
			F1 = G1/8" female
	<u>30</u>		

**AIR DISTRIBUTION** 

# Example: 551.161.D8.D8.XX

Quick exhaust valve. Connections "A" and "B" Tube Ø6 NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### **Construction 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.
- 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. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	10	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	250	
Flow rate at 6 bar with free exhaust (NI/min)	500	
Temperature °C	-5 ÷ +50	
Weight (g)	15	



#### **Pressure indicator** Coding: 551.178. **@. B**. XX CONNECTION A A SEE CONNECTIONS LIST CONNECTION B o a maaa B SEE CONNECTIONS LIST Ø3.2 CONNECTIONS LIST 00 = None D4 = StraightØ44 D6 = StraightØ6 D8 = StraightØ8 32 18.5 Α В L1 = Female banjo G1/8" G4 = Rotating banjo Ø4 $\textbf{G6}{=}~Rotating~banjo~\emptyset~6$ 18 G8 = Rotating banjo Ø8 M1 = G1/8" male 30 15 M2 = G1/4" male F1 = G1/8" female

Example: 551.178.D6.D4.XX

Pressure indicator. Connections "A" Tube Ø6, "B" Tube Ø4

NOTE : For the dimension including cartridges see page Accessories - Function fittings

- 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. It can be use on its own or can be coupled with another device.

- 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

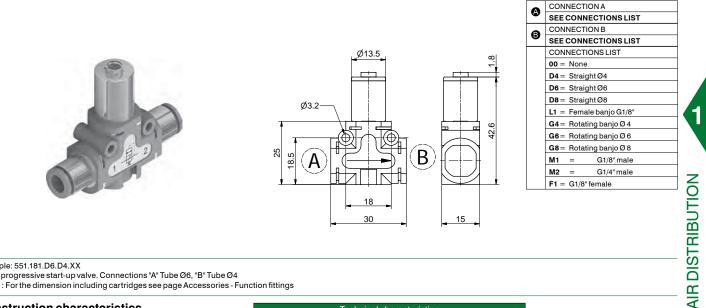
Technical characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	8	
Visualization scale (bar)	0 ÷ 8	
Temperature °C	-5 ÷ +50	
Weight (g)	20.5	
	Fluid Working ports size Max working pressure (bar) Visualization scale (bar) Temperature °C	





#### In line progressive start-up valve

Coding: 551.181.



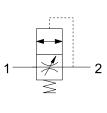
#### Example: 551.181.D6.D4.XX

In line progressive start-up valve. Connections "A" Tube Ø6, "B" Tube Ø4 NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### **Construction characteristics**

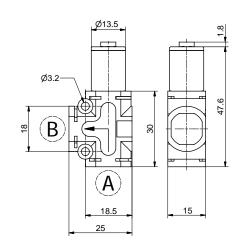
- The soft start valve is a device designed to gradually pressurise the downstream
- circuit until 50% of the upstream pressure value is reached. Once the 50% of the upstream pressure value is reached in the down stream circuit the valve fully opens allowing full air passage.
- The filling time can be 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 of sudden movements.

Technical characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Opening pressure (Pa)	50% of the inlet pressure (Pi)	
Flow rate at 6 bar with free exhaust (NI/min) from 1 to 2 with opening ciruit	350	
Flow rate at 6 bar with $\Delta p = 1$ from 1 to 2 with opening ciruit	600	
Flow rate at 6 bar with $\Delta p=1$ from 2 to 1 with opening pin	650	
Temperature °C	-5 ÷ +50	
Weight (g)	31	

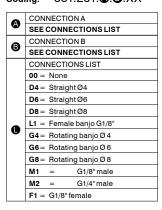


#### 90° progressive start-up valve





#### Coding: 551.281. **@. B**. XX



#### Example: 551.281.M1.D4.XX

90° progressive start-up valve. connections "A" Male G1/8", "B" Tube Ø4

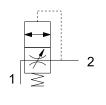
NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### **Construction characteristics**

- The soft start valve is a device designed to gradually pressurise the downstre
- 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 u the cylinders will return to theirs home position slowly avoiding collisions or sudden movements.

	Technical characteristics	
eam	Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
	Working ports size	See CONNECTIONS LIST
' [	Opening pressure (Pa)	50% of the inlet pressure (Pi)
up	Flow rate at 6 bar with free exhaust (NI/min) from 1 to 2 with opening ciruit	350
	Flow rate at 6 bar with $\Delta p=1$ from 1 to 2 with opening ciruit	600
	Flow rate at 6 bar with $\Delta p=1$ from 2 to 1 with opening pin	650
	Temperature °C	-5 ÷ +50
	Weight (g)	31

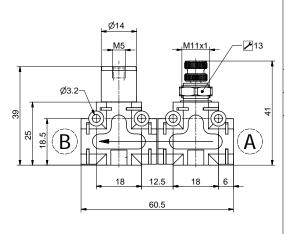




### In line blocking valve with flow control valve







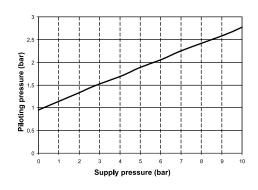
	•	
	TYPE	
	1 = Unidirectional blocking valve	
	+ Unidirectional flow control valve	
	2 = Bidirectional blocking valve +	
Û	Bidirectional flow control valve	
	3 = Unidirectional blocking valve	
	+ Bidirectional flow control valve	
	4 = Bidirectional blocking valve +	
	Unidirectional flow control valve	
	CONNECTION A	
A	SEE CONNECTIONS LIST	
8	CONNECTION B	
•	SEE CONNECTIONS LIST	
	CONNECTIONS LIST	
	<b>00</b> = None	
	D4 = StraightØ4	
	D6 = StraightØ6	
	D8 = StraightØ8	
	L1 = Female banjo G1/8"         G4 = Rotating banjo Ø 4         G6 = Rotating banjo Ø 6	
	G8 = Rotating banjo Ø8	
	M1 = G1/8" male	
	M2 = G1/4" male	
	F1 = G1/8" female	

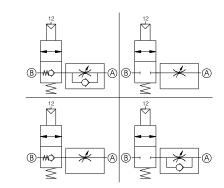
**AIR DISTRIBUTION** 

#### Example: 551.1F1.00.00.XX

In line blocking valve + flow control valve. Without connections "A" and "B" NOTE : For the dimension including cartridges see page Accessories - Function fittings

Piloting curves





Filtered air. No lubrication needed, if applied it shall be

continuous

#### **Construction characteristics**

- The combination of this two functions ensures that the downstream pressure is maintained in case of 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

See CONNECTIONS LIST Working ports size Max working pressure (bar) 0,5 ÷ 10 Flow rate at 6 bar with  $\Delta p=1$  (NI/min) 285 Orifice size (mm) ØЗ Temperature °C -5 ÷ +50 Weight (g) 62

Fluid

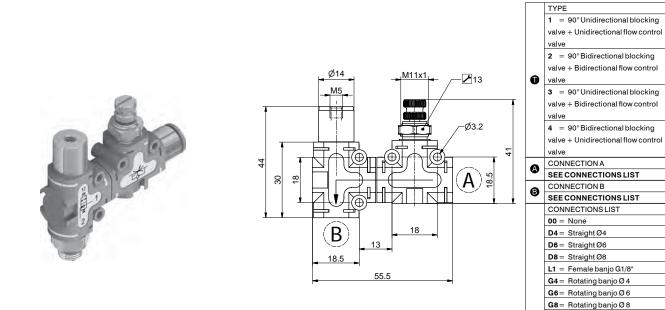
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

cal characteristics

\_ Unidirectional blocking valve + bidirectional flow control valve



#### 551.2FO.O.B.XX Coding:



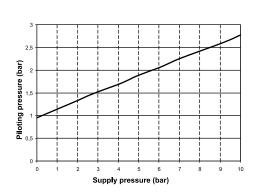
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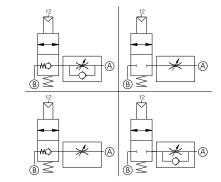
#### Example: 5512F1.00.00.XX

 $90^\circ$  blocking value + flow control value. Without connections "A" and "B" NOTE : For the dimension including cartridges see page Accessories - Function fittings

 $90^\circ\, blocking\, valve + flow\, control\, valve$ 

Piloting curves





M1 =

= F1 = G1/8" female

M2

G1/8" male

G1/4" male

#### **Construction 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. No lubrication needed, if applied it shall be continuous	
	Working ports size	See CONNECTIONS LIST	
ſ	Max working pressure (bar)	0,5 ÷ 10	
	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	285	
	Orifice size (mm)	Ø3	
ſ	Temperature °C	-5 ÷ +50	
	Weight (g)	62	

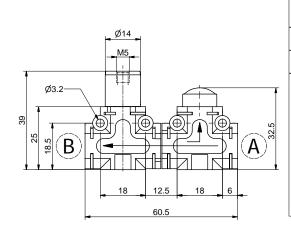
1



# In line blocking valve + quick exhaust valve

#### Coding:





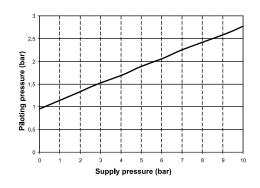
TYPE	
1 = Unidirectional blocking	valve
+ quick exhaust valve	
2 = Bidirectional blocking v	alve +
quick exhaust valve	
SEE CONNECTIONS LIST	
SEE CONNECTIONS LIST	
CONNECTIONS LIST	
<b>00</b> = None	
D4 = StraightØ4	
D6 = StraightØ6	
D8 = StraightØ8	
L1 = Female banjo G1/8"	
G4 = Rotating banjo Ø4	
<b>G6</b> = Rotating banjoØ6 <b>G8</b> = Rotating banjoØ8	
M2 = G1/4" male	
F1 = G1/8" female	

**AIR DISTRIBUTION** 

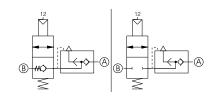
#### Example: 5511G1.00.00.XX

In line blocking valve + quick exhaust valve. Without connections "A" and "B" NOTE : For the dimension including cartridges see page Accessories - Function fittings

Piloting curves



Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice



#### **Construction 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 combinations are the following:
  Unidirectional blocking valve + quick exhaust valve
  Bidirectional blocking valve + quick exhaust valve

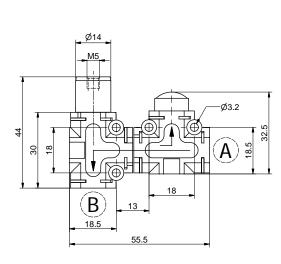
al characteristic Filtered air. No lubrication needed, if applied it shall be Fluid continuous See CONNECTIONS LIST Working ports size Max working pressure (bar) 0.5 ÷ 10 Flow rate at 6 bar with  $\Delta p=1$  (NI/min) 285 -5 ÷ +50 Temperature °C Weight (g) 51



#### 551.2G**0.@.B**.XX Codina:



90° blocking valve + quick exhaust valve

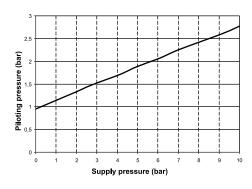


,oai	ng: 551.2GU.Q.Q.A.A
	TYPE
	1 = 90° Unidirectional blocking
Û	valve + quick exhaust valve
	$2 = 90^{\circ}$ Bidirectional blocking
	valve + quick exhaust valve
A	CONNECTION A
•	SEE CONNECTIONS LIST
B	CONNECTION B
9	SEE CONNECTIONS LIST
	CONNECTIONS LIST
	<b>00</b> = None
	D4 = StraightØ4
	D6 = StraightØ6
	D8 = StraightØ8
	L1 = Female banjo G1/8"
	G4 = Rotating banjo Ø4
	G6 = Rotating banjoØ6
	G8 = Rotating banjo Ø8
	M1 = G1/8" male
	<b>M2</b> = G1/4" male
	F1 = G1/8" female

#### Example: 551.2G1.00.00.XX

90° bidirectional blocking valve + quick exhaust valve. Without connections "A" and "B" NOTE : For the dimension including cartridges see page Accessories - Function fittings

Piloting curves

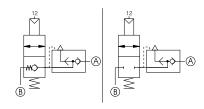


Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice



- 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 combinations are the following:
   90° Unidirectional blocking valve + quick exhaust valve
   90° Bidirectional blocking valve + quick exhaust valve

Weight (g) 51



Technical characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Working ports size	See CONNECTIONS LIST	
Max working pressure (bar)	0,5 ÷ 10	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	285	
Temperature °C	-5 ÷ +50	
M/aight (g)	51	

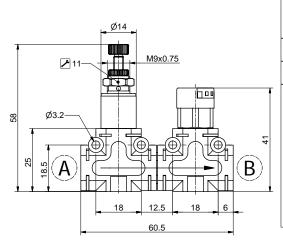
**AIR DISTRIBUTION** 



#### In line pressure regulator + pressure indicator

#### 551.1HO.O.B.XX Coding:





TYPE	
<b>2</b> = 0-2 bar	
<b>4</b> = 0-4 bar	
<b>8</b> = 0-8 bar	
CONNECTION A	
SEE CONNECTIONS LIST	
CONNECTION B	
SEE CONNECTIONS LIST	
CONNECTIONS LIST	
<b>00</b> = None	
D4 = StraightØ4	
D6 = StraightØ6	
D8 = StraightØ8	
L1 = Female banjo G1/8"	
G4 = Rotating banjo Ø4	
G6 = Rotating banjo Ø 6	
G8 = Rotating banjo Ø8	
M1 = G1/8" male	
M2 = G1/4" male	
F1 = G1/8" female	

# **AIR DISTRIBUTION**

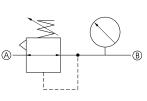
#### Example: 551.1H2.M1.D4.XX

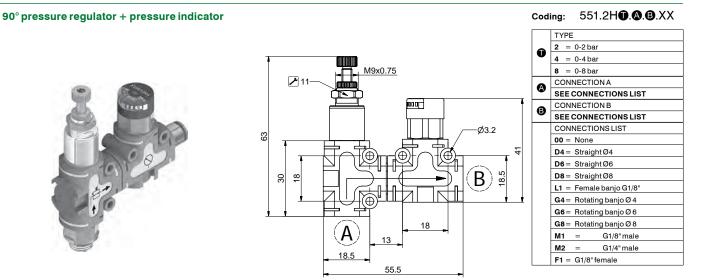
In line pressure regulator, adjusting range 0 - 2 bar + pressure indicator. Connections "A" Male G 1/8 and "B" Tube Ø4 NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### Construction 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. No lubrication needed, if applied it shall be continuous
Working ports size	See CONNECTIONS LIST
Max working pressure (bar)	8
Visualization scale (bar)	0 ÷ 8
	0 ÷ 2
Pressure range (bar)	0 ÷ 4
	0 ÷ 8
Temperature °C	-5 ÷ +50
Weight (g)	62





#### 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

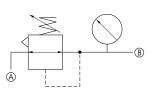
NOTE : For the dimension including cartridges see page Accessories - Function fittings

#### Construction 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 1 be identification to Resure pressure (the visual indicator

- The visual indicator Pressure range (bar) is always 0 to 8 bar
- Filtered air. No lubrication needed. Fluid if applied it shall be continuous Working ports size See CONNECTIONS LIST Max working pressure (bar) 8 Visualization scale (bar) 0 ÷ 8 0 ÷ 2 0 ÷ 4 Pressure range (bar) 0 ÷ 8 Temperature °C -5 ÷ +50 Weight (g) 62

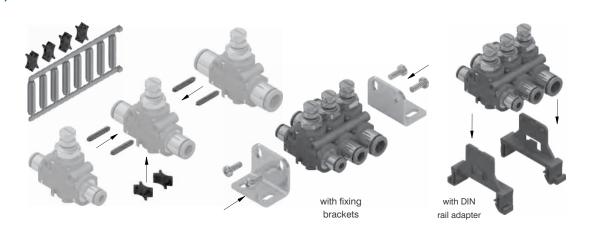
**Technical characteristics** 



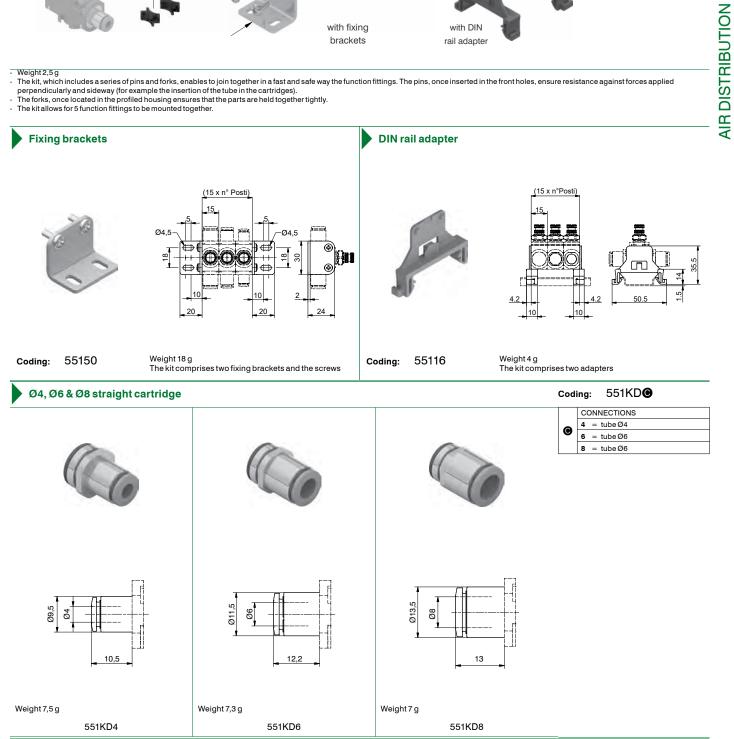
**Accessories - Function fittings** Series 55 Tecno-FUN



Coding: 55160



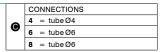
Coupling kit (pins and forks)





# Ø4, Ø6 & Ø8 banjo PL cartridge





1

