Series 104

General

The micro valves 104 series are a cost effective solution with reduced overall dimensions, easy to install and manage.
Their main characteristic is the possibility to choose between the version with lateral or rear pneumatic connections realized with quick fitting for Ø4mm tube included.
The valves are available with 2 or 3 ways versions, normally closed or open, 5 ways and 5 ways 3 positions open centres and pressured centres.
The 5 ways version is made with two 3 ways valves placed side by side with common inlet.
The operators available for this valve are push button (different versions), selector (key, short and long lever), lever (lever roller or level undirectional) and pneumatic.
It is also possible to combine the 2 and 3 ways valves with electrical switches, normally closed or open.

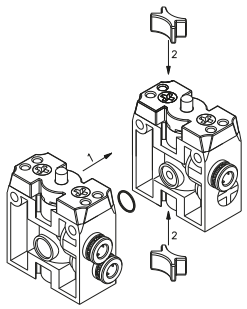
Construction characteristics

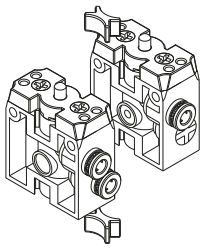
Body and cover	Technopolymer
Operators	Plastic material for buttons and switches
Seals	NBR
Spacer	Technopolymer
Spools	Steel
Springs	Spring steel
Pistons	Aluminium (for pneumatic command version)

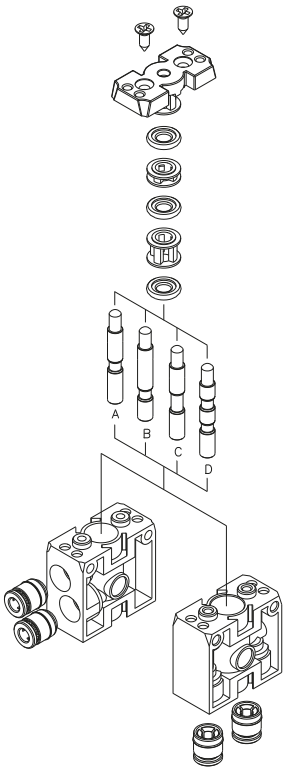
Use and maintenance

This valves have an average life of 15 million cycles depending on the application and air quality.
Filtered and lubricated air using specified lubricants will reduce the wear of the seals and ensures long and trouble free operation.
Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature.

ATTENTION: use hydraulic oil class H for lubrication such as MAGNA GC 32 (Castrol).







A : 2/2 N.C.
B : 2/2 N.A.
C : 3/2 N.C.
D : 3/2 N.A.

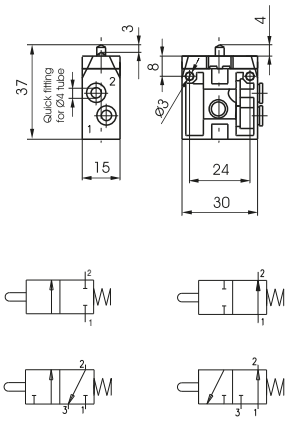
Tappet - Spring

Coding: 104.Ⓣ.0.1.Ⓦ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE	Ⓕ	FUNCTION
	22 = 2 ways		**A** = Normally Open
	32 = 3 ways		**C** = Normally Closed
Ⓦ	CONNECTION TYPE		
	L = Lateral		
	P = Rear		

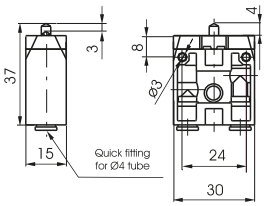
2/2 - 3/2 - Lateral connections



Weight 20 g
Operating force 13 N

104.Ⓣ.0.1.L.Ⓕ

2/2 - 3/2 - Rear connections



Weight 20 g
Operating force 13 N

104.Ⓣ.0.1.P.Ⓕ

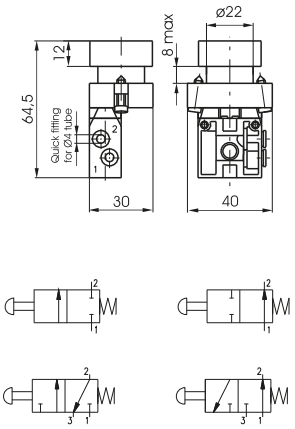
Push button - Spring

Coding: 104.Ⓣ.6.22/Ⓒ.Ⓦ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE	Ⓦ	CONNECTION TYPE
	22 = 2 ways		**L** = Lateral
	32 = 3 ways		**P** = Rear
	52 = 5 ways	Ⓕ	FUNCTION (only for 2 or 3 ways)
Ⓒ	BUTTON COLOR		**A** = Normally Open
	1 = Red		**C** = Normally Closed
	2 = Black		
	3 = Green		
	4 = Yellow		

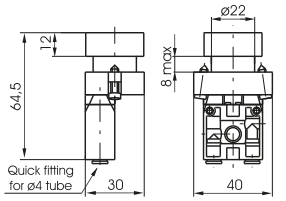
2/2 - 3/2 - Lateral connections



Weight 50 g
Operating force 18 N

104.Ⓣ.6.22/Ⓒ.L.Ⓕ

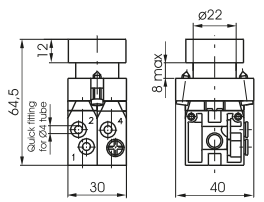
2/2 - 3/2 - Rear connections



Weight 50 g
Operating force 18 N

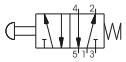
104.Ⓣ.6.22/Ⓒ.P.Ⓕ

5/2 - Lateral connections

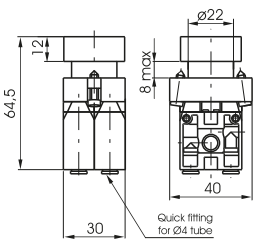


Weight 105 g
Operating force 30 N

104.52.6.22/Ⓒ.L

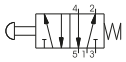


5/2 - Rear connections



Weight 105 g
Operating force 30 N

104.52.6.22/Ⓒ.P



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

Push button 2 positions (step - step)

Coding: 104.Ⓣ.6.31.Ⓦ.Ⓕ

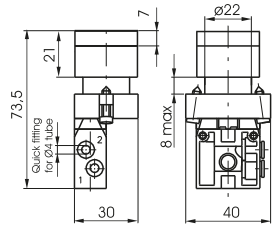
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

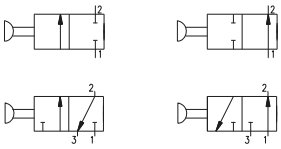
Ⓣ	TYPE
	22 = 2 ways
	32 = 3 ways
	52 = 5 ways

Ⓦ	CONNECTION TYPE
	L = Lateral
	P = Rear

Ⓕ	FUNCTION (only for 2/2 and 3/2 ways)
	A = Normally Open
	C = Normally Closed

2/2 - 3/2 - Lateral connections

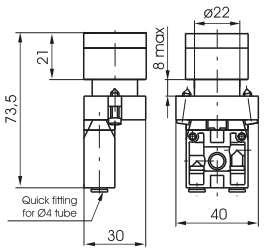


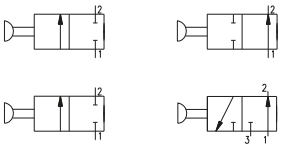


Weight 60 g
Operating force 18 N

104.Ⓣ.6.31.L.Ⓕ

2/2 - 3/2 - Rear connections

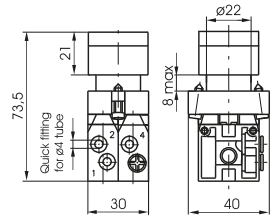




Weight 60 g
Operating force 18 N

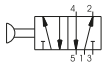
104.Ⓣ.6.31.P.Ⓕ

5/2 - Lateral connections

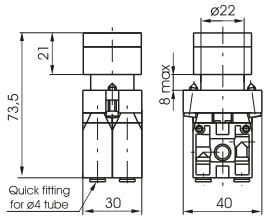


Weight 110 g
Operating force 30 N

104.52.6.31.L



5/2 - Rear connections



Weight 110 g
Operating force 30 N

104.52.6.31.P

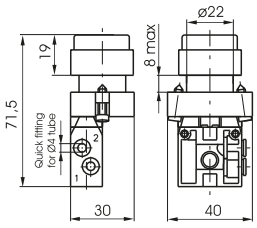
Raised Push button - Spring

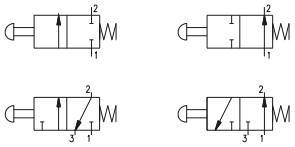
Coding: 104.Ⓣ.6.23/Ⓒ.Ⓦ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE	Ⓦ	CONNECTION TYPE
	22 = 2 ways		**L** = Lateral
	32 = 3 ways		**P** = Rear
	52 = 5 ways	Ⓕ	FUNCTION (only for 2 or 3 ways)
Ⓒ	BUTTON COLOR		**A** = Normally Open
	1 = Red		**C** = Normally Closed
	2 = Black		
	3 = Green		
	4 = Yellow		

2/2 - 3/2 - Lateral connections

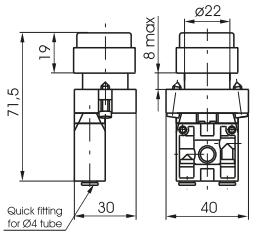


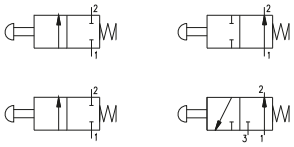


Weight 50 g
Operating force 18 N

104.Ⓣ.6.23/Ⓒ.L.Ⓕ

2/2 - 3/2 - Rear connections

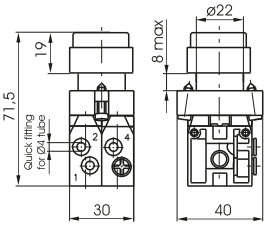


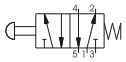


Weight 50 g
Operating force 18 N

104.Ⓣ.6.23/Ⓒ.P.Ⓕ

5/2 - Lateral connections

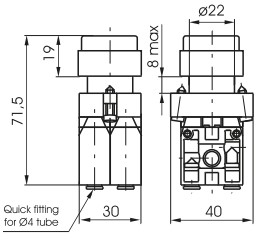


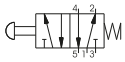


Weight 105 g
Operating force 30 N

104.52.6.23/Ⓒ.L

5/2 - Rear connections





Weight 105 g
Operating force 30 N

104.52.6.23/Ⓒ.P

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

Palm button 2 position

Coding: 104.Ⓣ.6.25.Ⓦ.Ⓕ

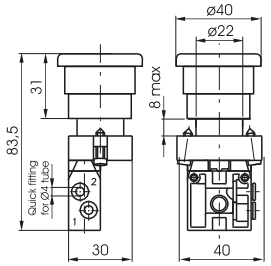
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

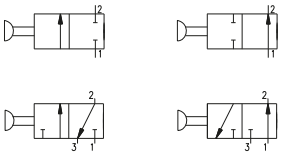
Ⓣ	TYPE
	22 = 2 ways
	32 = 3 ways
	52 = 5 ways

Ⓦ	CONNECTION TYPE
	L = Lateral
	P = Rear

Ⓕ	FUNCTION (only for 2/2 and 3/2 ways)
	A = Normally Open
	C = Normally Closed

2/2 - 3/2 - Lateral connections

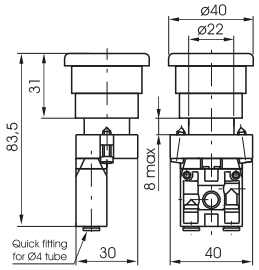


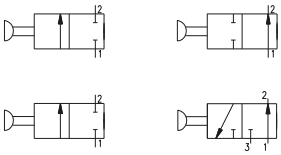


Weight 65 g
Operating force 19 N
Emergency - Rotate to unlock

104.Ⓣ.6.25.L.Ⓕ

2/2 - 3/2 - Rear connections

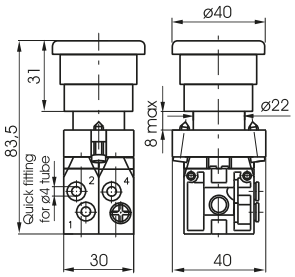


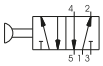


Weight 65 g
Operating force 19 N
Emergency - Rotate to unlock

104.Ⓣ.6.25.P.Ⓕ

5/2 - Lateral connections

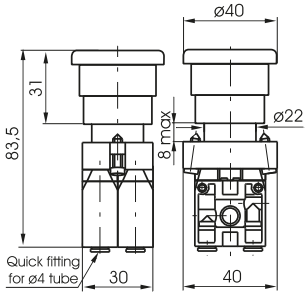




Weight 120 g
Operating force 32 N
Emergency - Rotate to unlock

104.52.6.25.L

5/2 - Rear connections



Weight 120 g
Operating force 32 N
Emergency - Rotate to unlock

104.52.6.25.P

Switch - short lever

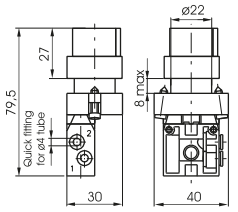
Coding: 104.Ⓣ.Ⓕ1.6.30.Ⓢ.Ⓦ.Ⓕ2

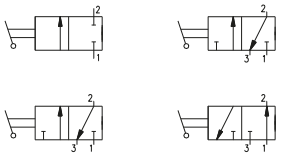
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE
	22 = 2 ways
	32 = 3 ways
	52 = 5 ways
	53 = 5 ways
Ⓕ1	FUNCTION (only for 5/3 ways)
	32 = Open centres
	33 = Pressured centres

Ⓢ	SWITCH POSITION (only for 2/2 and 3/2 ways)
	0 = 3 pos. instable
	1 = 3 pos. stable
Ⓦ	CONNECTION TYPE
	L = Lateral
	P = Rear
Ⓕ2	FUNCTION (only for 2/2 or 3/2 ways)
	A = Normally Open
	C = Normally Closed

2/2 - 3/2 - Lateral connections

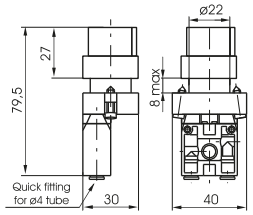


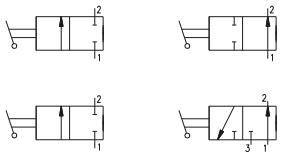


Weight 65 g
Switch 2 positions stable

104.Ⓣ.6.30.L.Ⓕ

2/2 - 3/2 - Rear connections

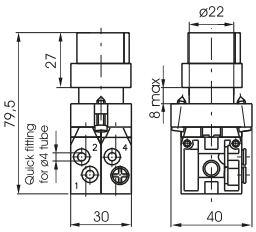


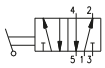


Weight 65 g
Switch 2 positions stable

104.Ⓣ.6.30.P.Ⓕ

5/2 - Lateral connections

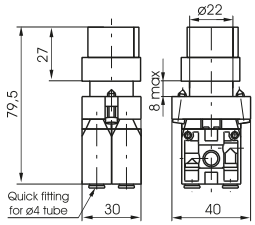


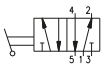


Weight 120 g
Switch 2 positions stable

104.52.6.30.L

5/2 - Rear connections

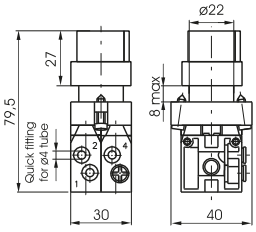


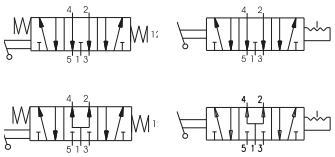


Weight 120 g
Switch 2 positions stable

104.52.6.30.P

5/3 - Lateral connections

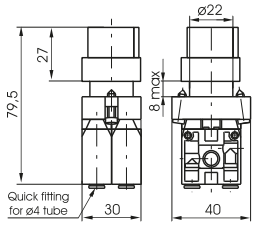


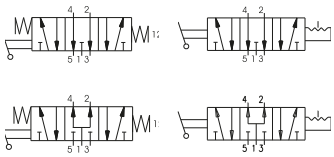


Weight 120 g

104.53.Ⓕ.6.30.Ⓢ.L

5/3 - Rear connections





Weight 120 g

104.53.Ⓕ.6.30.Ⓢ.P

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

Switch - long lever

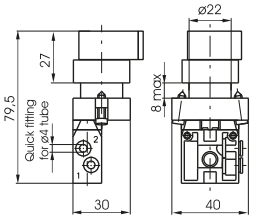
Coding: 104.Ⓣ.Ⓕ1.6.27.Ⓢ.Ⓦ.Ⓕ2

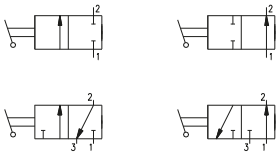
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE
	22 = 2 ways
	32 = 3 ways
	52 = 5 ways
	53 = 5 ways
Ⓕ1	FUNCTION (only for 5/3 ways)
	32 = Open centres
	33 = Pressured centres

Ⓢ	SWITCH POSITION (only for 2/2 and 3/2 ways)
	0 = 3 pos. instable
	1 = 3 pos. stable
Ⓦ	CONNECTION TYPE
	L = Lateral
	P = Rear
Ⓕ2	FUNCTION (only for 2/2 or 3/2 ways)
	A = Normally Open
	C = Normally Closed

2/2 - 3/2 - Lateral connections

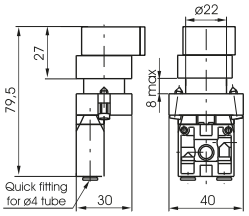


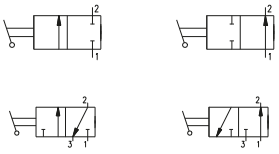


Weight 65 g
Switch 2 positions stable

104.Ⓣ.6.27.L.Ⓕ

2/2 - 3/2 - Rear connections

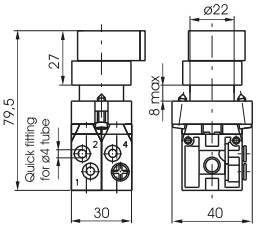


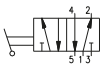


Weight 65 g
Switch 2 positions stable

104.Ⓣ.6.27.P.Ⓕ

5/2 - Lateral connections

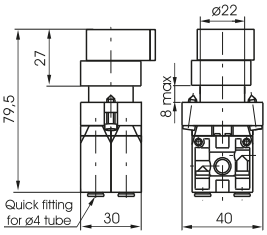


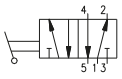


Weight 120 g
Switch 2 positions stable

104.52.6.27.L

5/2 - Rear connections

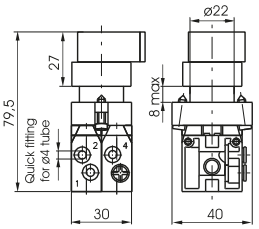


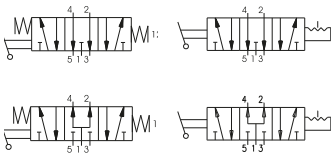


Weight 120 g
Switch 2 positions stable

104.52.6.27.P

5/3 - Lateral connections

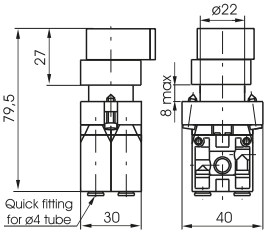


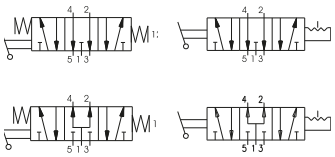


Weight 120 g

104.53.Ⓕ.6.27.Ⓢ.L

5/3 - Rear connections





Weight 120 g

104.53.Ⓕ.6.27.Ⓢ.P

Key switch

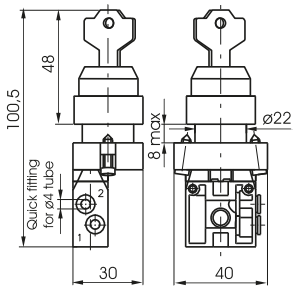
Coding: 104.Ⓣ.Ⓕ1.6.28.Ⓢ.Ⓦ.Ⓕ2

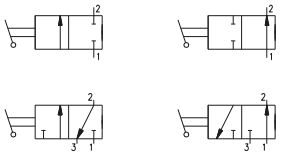
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE
	22 = 2 ways
	32 = 3 ways
	52 = 5 ways
	53 = 5 ways
Ⓕ1	FUNCTION 1 (only for 5/3 ways)
	32 = Open centres
	33 = Pressured centres

Ⓢ	SWITCH POSITION (only for 2/2 and 3/2 ways)
	0 = 3 pos. instable
	1 = 3 pos. stable
Ⓦ	CONNECTION TYPE
	L = Lateral
	P = Rear
Ⓕ2	FUNCTION 2 (only for 2/2 or 3/2 ways)
	A = Normally Open
	C = Normally Closed

2/2 - 3/2 - Lateral connections

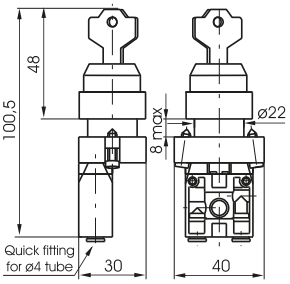


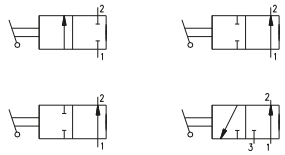


Weight 100 g
Switch 2 positions stable

104.Ⓣ.6.28.L.Ⓕ

2/2 - 3/2 - Rear connections

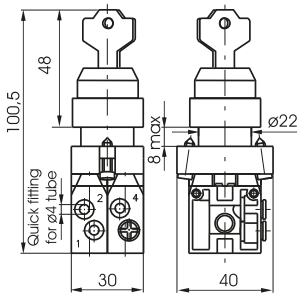


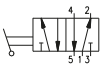


Weight 100 g
Switch 2 positions stable

104.Ⓣ.6.28.P.Ⓕ

5/2 - Lateral connections

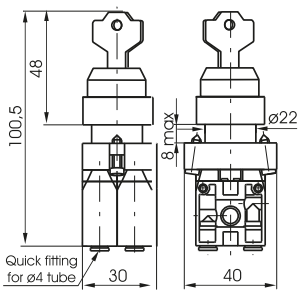


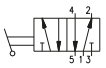


Weight 155 g
Switch 2 positions stable

104.52.6.28.L

5/2 - Rear connections

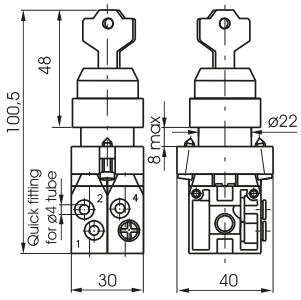


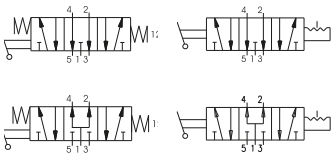


Weight 155 g
Switch 2 positions stable

104.52.6.28.P

5/3 - Lateral connections

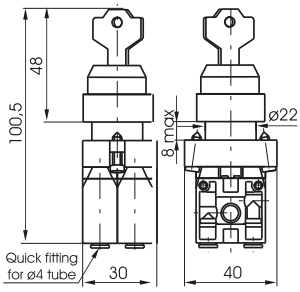


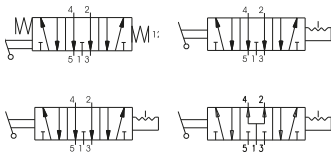


Weight 155 g

104.53.Ⓕ.6.28.Ⓢ.L

5/3 - Rear connections





Weight 155 g

104.53.Ⓕ.6.28.Ⓢ.P

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

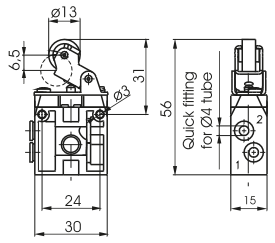
Lever roller - Spring

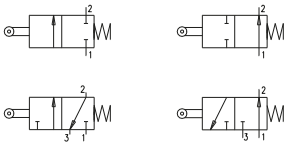
Coding: 104.Ⓣ.2.1.Ⓦ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE	Ⓕ	FUNCTION
	22 = 2 ways		**A** = Normally Open
	32 = 3 ways		**C** = Normally Closed
Ⓦ	CONNECTION TYPE		
	L = Lateral		
	P = Rear		

2/2 - 3/2 - Lateral connections

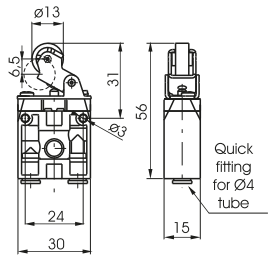


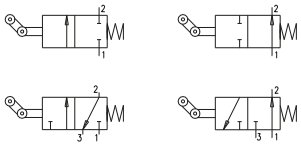


Weight 31 g
Operating force 9 N

104.Ⓣ.2.1.L.Ⓕ

2/2 - 3/2 - Rear connections





Weight 31 g
Operating force 9 N

104.Ⓣ.2.1.P.Ⓕ

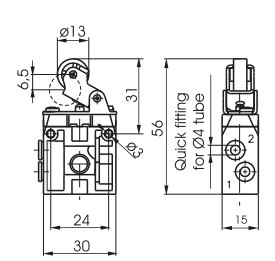
Lever roller ball bearing - Spring

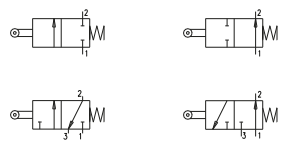
Coding: 104.Ⓣ.2.1/1.Ⓦ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE	Ⓕ	FUNCTION
	22 = 2 ways		**A** = Normally Open
	32 = 3 ways		**C** = Normally Closed
Ⓦ	CONNECTION TYPE		
	L = Lateral		
	P = Rear		

2/2 - 3/2 - Lateral connections

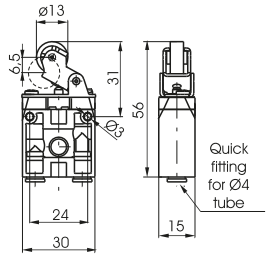


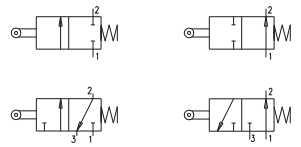


Weight 46 g
Operating force 9 N

104.Ⓣ.2.1/1.L.Ⓕ

2/2 - 3/2 - Rear connections





Weight 46 g
Operating force 9 N

104.Ⓣ.2.1/1.P.Ⓕ

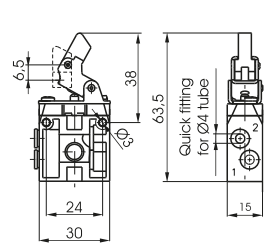
Lever unidirectional - Spring

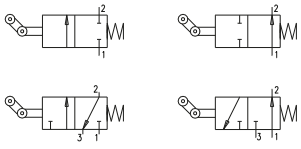
Coding: 104.Ⓣ.3.1.Ⓦ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	90
Orifice size (mm)	2.5
Working ports size	ø4 tube

Ⓣ	TYPE	Ⓕ	FUNCTION
	22 = 2 ways		**A** = Normally Open
	32 = 3 ways		**C** = Normally Closed
Ⓦ	CONNECTION TYPE		
	L = Lateral		
	P = Rear		

2/2 - 3/2 - Lateral connections

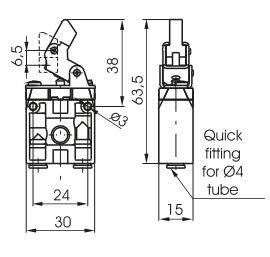


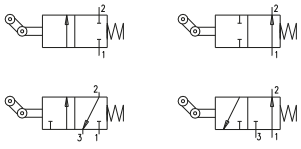


Weight 31 g
Operating force 9 N

104.Ⓣ.3.1.L.Ⓕ

2/2 - 3/2 - Rear connections





Weight 31 g
Operating force 9 N

104.Ⓣ.3.1.P.Ⓕ

Complete lever roller operator

Coding: 104.2.1

Complete lever roller ball bearing operator

Coding: 104.2.1/1

Complete lever unidirectional

Coding: 104.3.1

Fixing plate

Coding: 104.00

Push button

Coding: 104.6.22/Ⓒ

Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow

Raised Push button

Coding: 104.6.23/Ⓒ

Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow

Push button 2 positions

Coding: 104.6.31

(step - step)

Palm button 2 position

Coding: 104.6.25

Emergency - Rotate to unlock

Switch - short lever

Coding: 104.6.30.Ⓢ

Ⓢ	SWITCH POSITION (only for 3 position)
	0 = 3 pos. instable
	1 = 3 pos. stable

Switch 2 positions stable
104.6.30

Switch 3 positions
104.6.30.Ⓢ

Switch - long lever

Coding: 104.6.27.Ⓢ

Ⓢ	SWITCH POSITION (only for 3 position)
	0 = 3 pos. instable
	1 = 3 pos. stable

Switch 2 positions stable
104.6.27

Switch 3 positions
104.6.27.Ⓢ

Key switch

Coding: 104.6.28.Ⓢ

Ⓢ	SWITCH POSITION (only for 3 position)
	0 = 3 pos. instable
	1 = 3 pos. stable

Switch 2 positions stable
104.6.28

Switch 3 positions
104.6.28.Ⓢ

Joystick selector switch

Coding: 104.6.39.Ⓢ

Contact electric element

Coding: 104.Ⓕ

Ⓕ	FUNCTION	
	NO =	Normally Open
	NC =	Normally Closed

Complete Pneumatic Operator

Coding: 104.11

Push button protection cover

Coding: 104.02

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

Series 105

General

The series 105 consist of a broad range of miniature valves and valves with various type of actuation.
The connections are M5 for this series
Due to their special construction with a balanced spool, these valves can be used interchangeably as 3 ways or 5 ways.
The 3 ways can be used normally closed or normally open and the 5 ways can be fed through the exhausts 3 and 5 with different pressures according to the need.
The spool, as it is moving, isolates the connections without being affected by the inlet pressure.

Construction characteristics

	M5
Body	Aluminium
Operators	Nickel plated brass Stainless steel for roller levers and button levers; Zinc plated steel for side levers; Plastic material for handles, buttons and switches Aluminium (for pneumatic command version)
Seals	NBR
Spacer	Technopolymer
Spools	Steel
Springs	Spring steel
Pistons	Aluminium (for pneumatic command version)

Use and maintenance

This valves have an average life of 15 million cycles depending on the application and air quality.
Filtered and lubricated air using specified lubricants will reduce the wear of the seals and ensures long and trouble free operation.
Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature.
The exhaust port of the distributor has to be protected in a dusty and dirty environment.
Repair kits including the spool complete with seals are available for overhauling the valves.
However, although this is a simple operation it should be carried out by a competent person.

ATTENTION: use hydraulic oil class H for lubrication such as MAGNA GC 32 (Castrol).

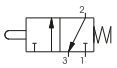
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Tappet panel - Spring

Coding: 105.Ⓣ.0.1

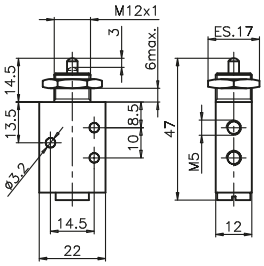
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways


105.32.0.1

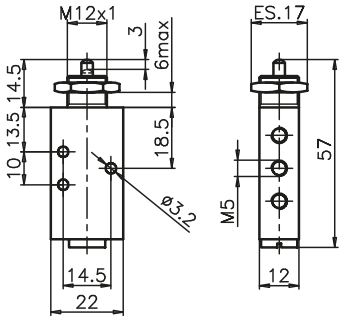
105.52.0.1

3 ways



Weight 70 g
Operating force 14 N

5 ways



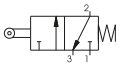
Weight 87 g
Operating force 14 N

Lever roller - Spring

Coding: 105.Ⓣ.2.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways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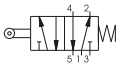
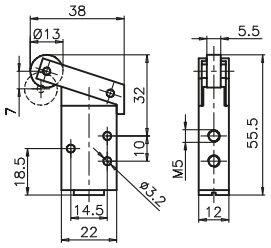
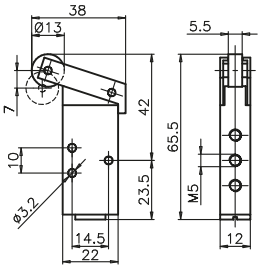

105.52.2.1

3 ways



Weight 85 g
Operating force 6 N

5 ways



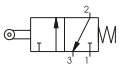
Weight 102 g
Operating force 6 N

Lever roller ball bearing - Spring

Coding: 105.Ⓣ.2.1/1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways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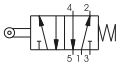
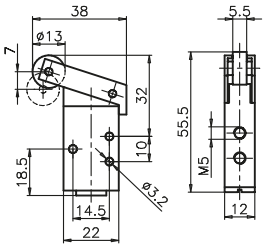
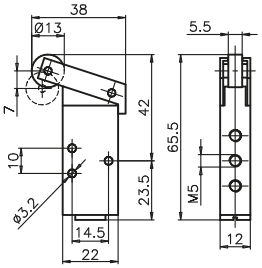

105.52.2.1/1

3 ways



Weight 100 g
Operating force 6 N

5 ways



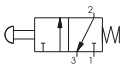
Weight 177 g
Operating force 6 N

Lever button - Spring

Coding: 105.Ⓣ.2.6/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green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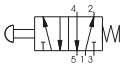
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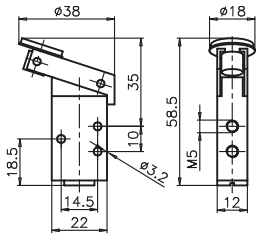
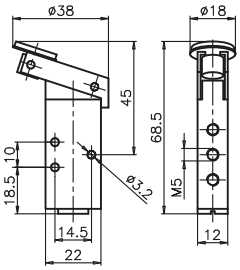
3 ways



Weight 85 g
Operating force 6 N

5 ways



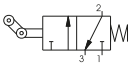
Weight 102 g
Operating force 6 N

Lever unidirectional - Spring

Coding: 105.Ⓣ.3.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways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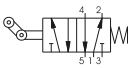
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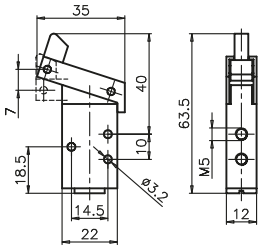
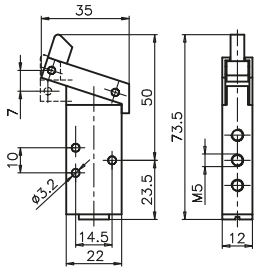
3 ways



Weight 85 g
Operating force 6 N

5 ways



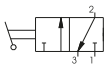
Weight 102 g
Operating force 6 N

Lever panel Ø22 - 2 positions

Coding: 105.Ⓣ.4/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green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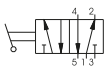
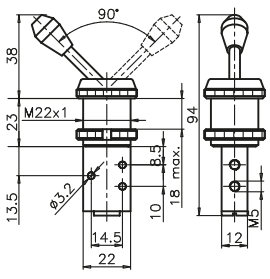
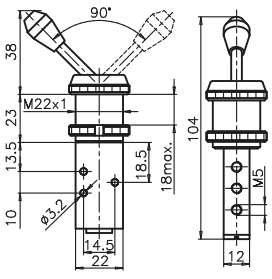

105.52.4/Ⓒ

3 ways



Weight 125 g

5 ways



Weight 142 g

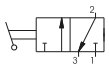
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

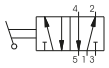
Lever panel Ø30 - 2 positions

Coding: 105.❶.5/Ⓒ

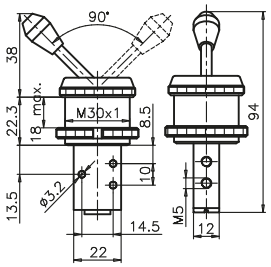
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

❶	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green


105.32.5/Ⓒ

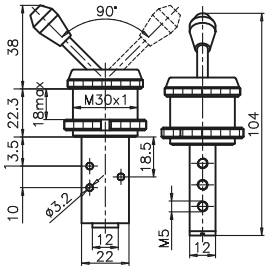

105.52.5/Ⓒ

3 ways



Weight 165 g

5 ways



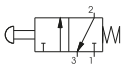
Weight 182 g

Push button Ø30 - Spring

Coding: 105.❶.6.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

❶	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green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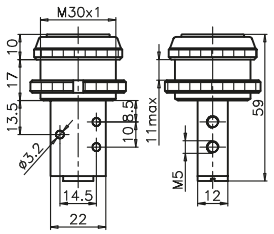
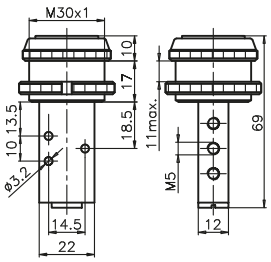
105.52.6.1/Ⓒ

3 ways



Weight 123 g
Operating force 14 N

5 ways



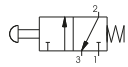
Weight 140 g
Operating force 14 N

Push button Ø22 - Spring

Coding: 105.❶.6.2/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

❶	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green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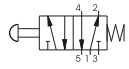
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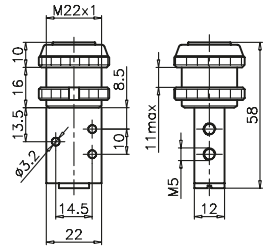
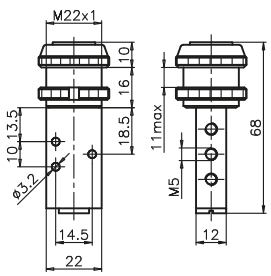
3 ways



Weight 102 g
Operating force 14 N

5 ways



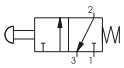
Weight 119 g
Operating force 14 N

Push button - Spring

Coding: 105.Ⓣ.6.22/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow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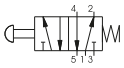
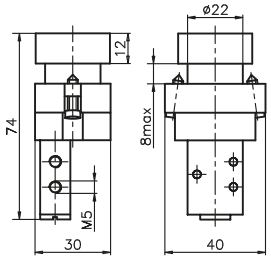
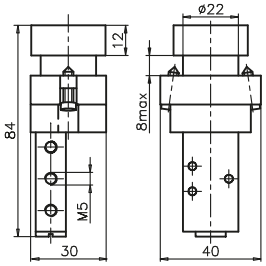

105.52.6.22/Ⓒ

3 ways



Weight 165 g
Operating force 14 N

5 ways



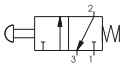
Weight 182 g
Operating force 14 N

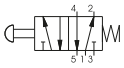
Raised Push button - Spring

Coding: 105.Ⓣ.6.23/Ⓒ

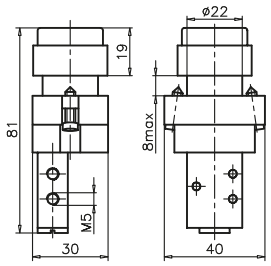
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow


105.32.6.23/Ⓒ

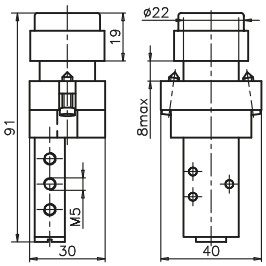

105.52.6.23/Ⓒ

3 ways



Weight 170 g
Operating force 14 N

5 ways



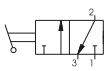
Weight 187 g
Operating force 14 N

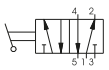
Switch 2 positions

Coding: 105.Ⓣ.6.27

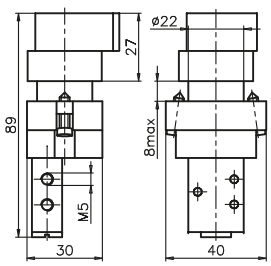
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways


105.32.6.27

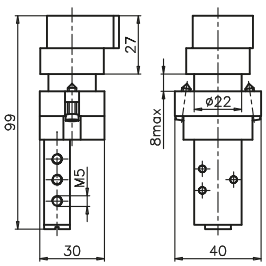

105.52.6.27

3 ways



Weight 185 g

5 ways



Weight 202 g

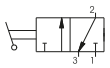
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Key switch 2 positions

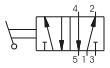
Coding: 105.Ⓣ.6.28

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

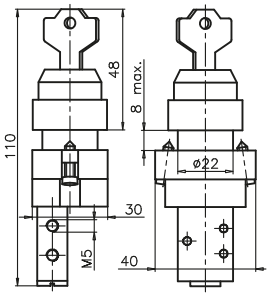


105.32.6.28



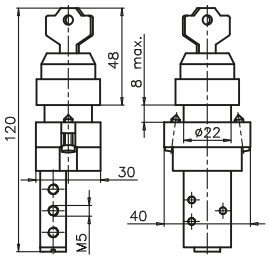
105.52.6.28

3 ways



Weight 215 g

5 ways



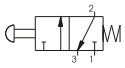
Weight 232 g

Palm pushbutton Ø30 - Spring

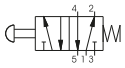
Coding: 105.Ⓣ.7.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green

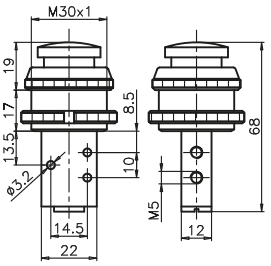


105.32.7.1/Ⓒ



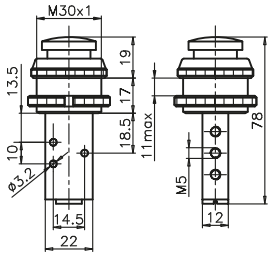
105.52.7.1/Ⓒ

3 ways



Weight 126 g
Operating force 14 N

5 ways



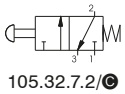
Weight 143 g
Operating force 14 N

Palm pushbutton Ø22 - Spring

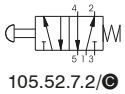
Coding: 105.Ⓣ.7.2/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green

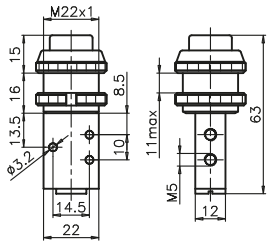


105.32.7.2/Ⓒ



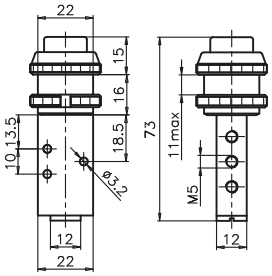
105.52.7.2/Ⓒ

3 ways



Weight 103 g
Operating force 14 N

5 ways



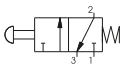
Weight 120 g
Operating force 14 N

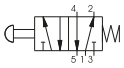
Push button

Coding: 105.Ⓣ.8.1/Ⓒ

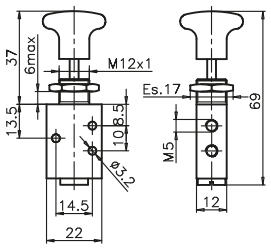
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green


105.32.8.1/Ⓒ

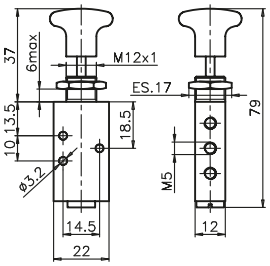

105.52.8.1/Ⓒ

3 ways



Weight 75 g
Operating force 14 N

5 ways



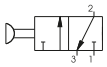
Weight 92 g
Operating force 14 N

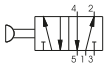
Push button 2 positions

Coding: 105.Ⓣ.8/Ⓒ

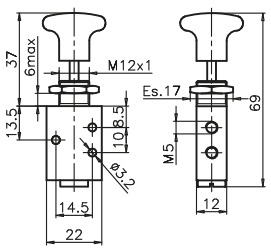
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green


105.32.8/Ⓒ

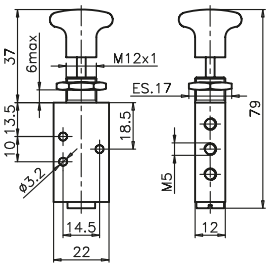

105.52.8/Ⓒ

3 ways



Weight 75 g
Operating force 14 N

5 ways



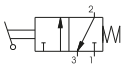
Weight 92 g
Operating force 14 N

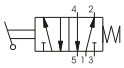
Whisker - Spring

Coding: 105.Ⓣ.9.1

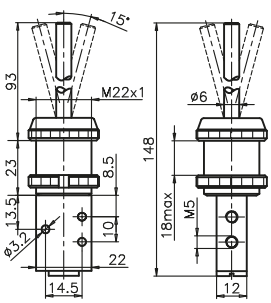
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways


105.32.9.1

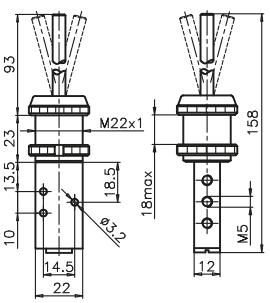

105.52.9.1

3 ways



Weight 136 g

5 ways



Weight 153 g

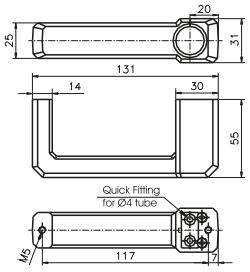
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Handle with valve

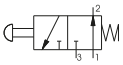
Coding: 105.Ⓣ.6.Ⓐ.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	120
Orifice size (mm)	2.5
Working ports size	M5 - Quick Fitting for Ø4 tube

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways
Ⓐ	FEEDING
	40 = Left feeding
	40D = Right feeding
Ⓕ	FUNCTION (only for 3 ways)
	A = Normally Open
	C = Normally Closed

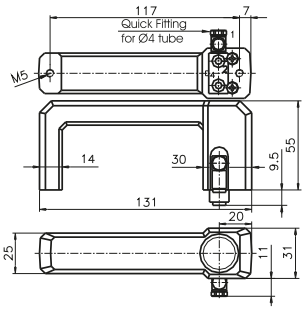


Weight 165 g
Operating force 14 N

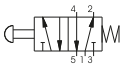


105.32.6.40.Ⓕ

Left feeding

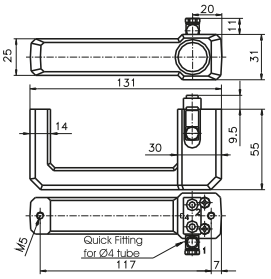


Weight 190 g
Operating force 14 N

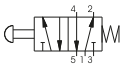


105.52.6.40

Right feeding



Weight 190 g
Operating force 14 N



105.52.6.40.Ⓓ