

General

New 104 micro valves series have been realized as an economic version to complete the range of 105 valves version. With their small overall dimensions it makes easy installation and operation.

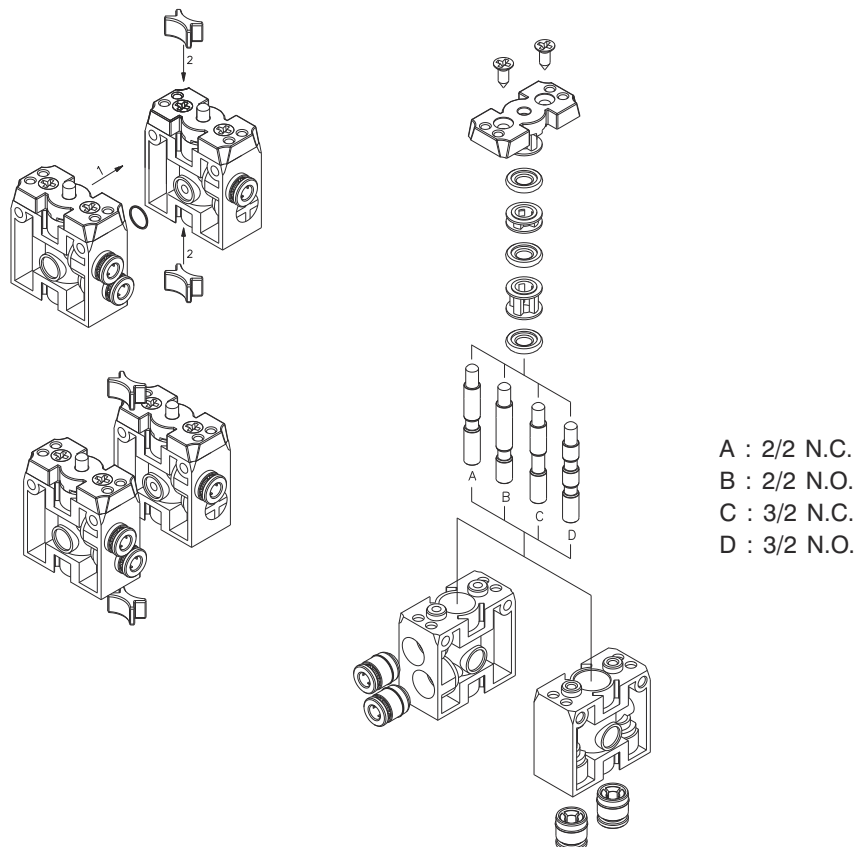
Their main characteristic is the possibility to choose between the version with lateral or rear pneumatic connections realized with quick fitting for Ø 4 mm. tube included.

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 lever unidirectional) 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
Actuators	Plastic material for buttons and switches
Seals	NBR
Spacer	Acetal resin
Spool	Steel
Spring	Spring steel

Use and maintenance

These valves have an average life of 15 million cycles depending on the application and air quality, filtered and lubricated air using specified lubricants will dramatically 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 and that exhaust ports 3 & 5 are protected against the possible ingress of dirt or debris.

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).

Tappet - Spring	2/2 3/2	Ordering code 104.T.0.1.P.F	2/2 3/2	Tappet - Spring	
<i>Lateral connections</i>				<i>Rear connections</i>	
		<p>TYPE</p> <p>T 22 = 2 ways 32 = 3 ways</p> <p>CONNECTION TYPE</p> <p>P L = Lateral P = Rear</p> <p>FUNCTION</p> <p>F A = Normally Open C = Normally Closed</p>			
<p>Weight gr. 20 Operating force 13 N</p>		<p>Weight gr. 20 Operating force 13 N</p>			
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

Push button - Spring	2/2 3/2	Ordering code 104.T.6.22/C.P.F	2/2 3/2	Push button - Spring	
<i>Lateral connections</i>				<i>Rear connections</i>	
		<p>TYPE</p> <p>T 22 = 2 ways 32 = 3 ways</p> <p>BUTTON COLOR</p> <p>C 1 = Red 2 = Black 3 = Green 4 = Yellow</p> <p>CONNECTION TYPE</p> <p>P L = Lateral P = Rear</p> <p>FUNCTION</p> <p>F A = Normally Open C = Normally Closed</p>			
<p>Weight gr. 50 Operating force 18 N</p>		<p>Weight gr. 50 Operating force 18 N</p>			
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
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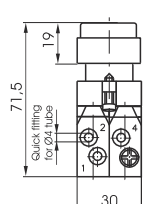
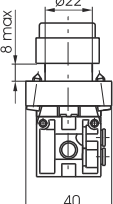

Push button - Spring	5/2	Ordering code 104.52.6.22/C.P	5/2	Push button - Spring	
<i>Lateral connections</i>				<i>Rear connections</i>	
		<p>BUTTON COLOR</p> <p>C 1 = Red 2 = Black 3 = Green 4 = Yellow</p> <p>CONNECTION TYPE</p> <p>P L = Lateral P = Rear</p>			
<p>Weight gr. 105 Operating force 30 N</p>		<p>Weight gr. 105 Operating force 30 N</p>			
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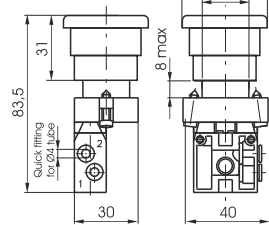


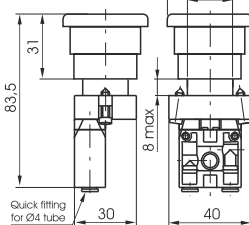
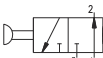
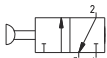
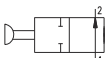
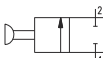
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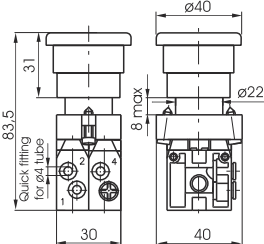
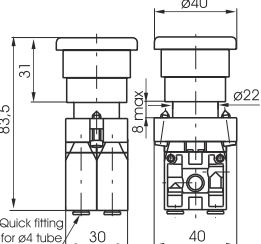

Push button 2 positions (step - step)		2/2 3/2	Ordering code	2/2 3/2	Push button 2 positions (step - step)																		
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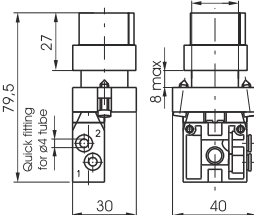

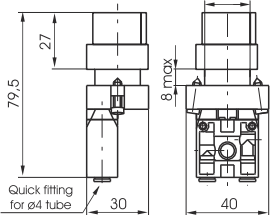

Raised Push button - Spring		2/2 3/2	Ordering code	2/2 3/2	Raised Push button - Spring																		
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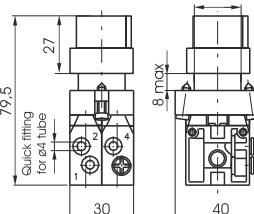

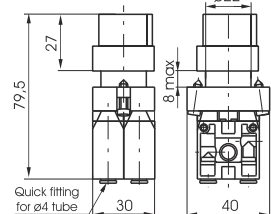
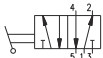
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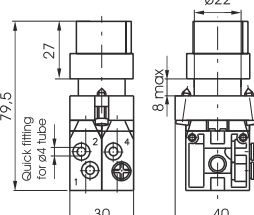

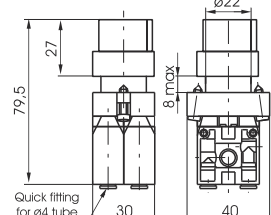

Palm button 2 position		2/2	Ordering code	2/2	Palm button 2 position	
Lateral connections		3/2	104. T .6.25. P F	3/2	Rear connections	
<div></div>		<div><div><div>T</div><div>TYPE</div></div><div>22 = 2 ways</div><div>32 = 3 ways</div><div>P</div><div>CONNECTION TYPE</div></div> <div>L = Lateral</div> <div>P = Rear</div> <div>F</div> <div>FUNCTION</div> <div>A = Normally Open</div> <div>C = Normally Closed</div>		<div></div>		
Weight gr. 65 Operating force 19N Emergency - Rotate to unlock		<div></div>	Weight gr. 65 Operating force 19N Emergency - Rotate to unlock			
Operational characteristic						
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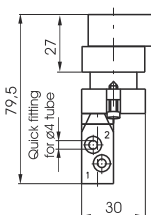
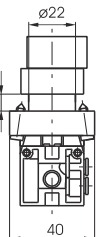

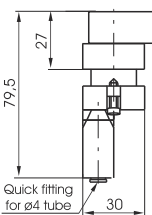
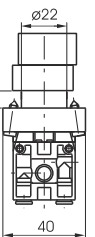
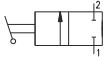
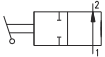
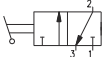
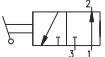
Palm button 2 position		5/2	Ordering code	5/2	Palm button 2 position	
Lateral connections			104.52.6.25.P		Rear connections	
						
Weight gr. 120 Operating force 32N Emergency - Rotate to unlock				Weight gr. 120 Operating force 32N Emergency - Rotate to unlock		
Operational characteristic						
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	
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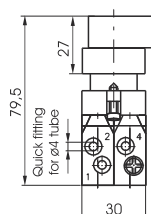
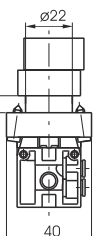

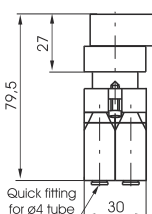
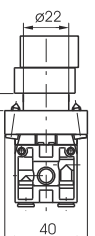
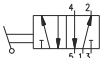
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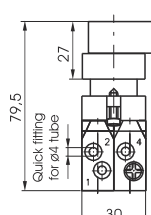
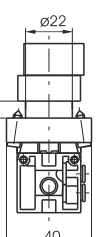

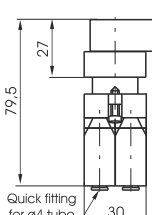
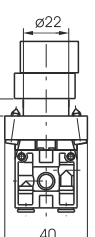
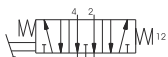
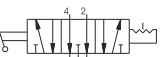
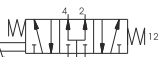
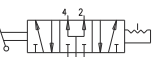
Switch - short lever		2/2 3/2	Ordering code	2/2 3/2	Switch - short lever
Lateral connections			104.T.6.30.PF		Rear connections
 			TYPE T 22 = 2 ways 32 = 3 ways CONNECTION TYPE P L = Lateral P = Rear FUNCTION F A = Normally Open C = Normally Closed		 
Weight gr. 65 Switch 2 positions stable					Weight gr. 65 Switch 2 positions stable
					
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar ith Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

Switch - short lever		5/2	Ordering code	5/2	Switch - short lever
Lateral connections			104.52.6.30.P		Rear connections
 			CONNECTION TYPE P L = Lateral P = Rear		 
Weight gr. 120 Switch 2 positions stable					Weight gr. 120 Switch 2 positions stable
					
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

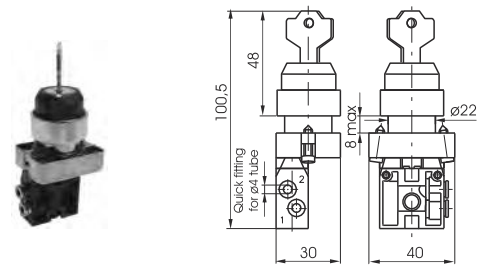
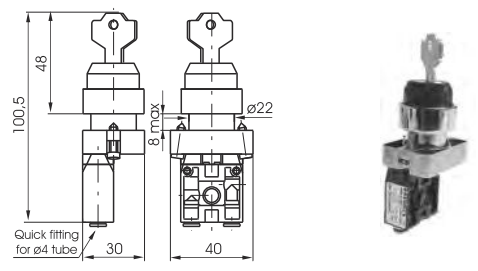
Switch - short lever		5/3	Ordering code	5/3	Switch - short lever
Lateral connections			104.53.F.6.30.S.P		Rear connections
 			FUNCTION F 32 = Open centres 33 = Pressured centres SWITCH POSITIONS S 0 = 3 pos. instable 1 = 3 pos. stable CONNECTION TYPE P L = Lateral P = Rear		 
Weight gr. 120					Weight gr. 120
					
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

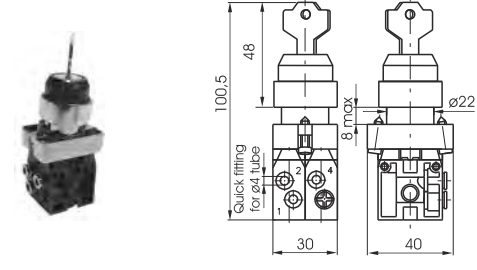
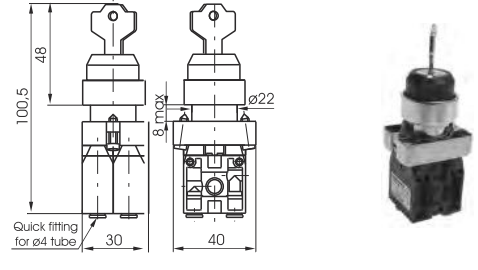
Switch - long lever		2/2 3/2	Ordering code	2/2 3/2	Switch - long lever
Lateral connections			104.1.6.27.PF		Rear connections
  			TYPE T 22 = 2 ways 32 = 3 ways CONNECTION TYPE P L = Lateral P = Rear FUNCTION F A = Normally Open C = Normally Closed		  
Weight gr. 65 Switch 2 positions stable					Weight gr. 65 Switch 2 positions stable
   					
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

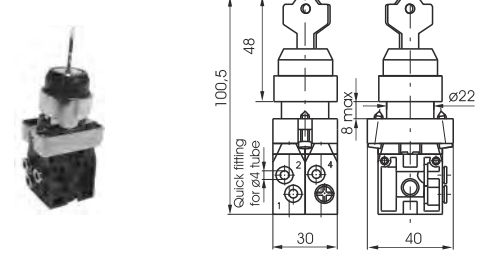
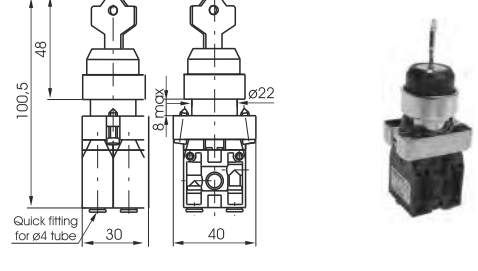
Switch - long lever		5/2	Ordering code	5/2	Switch - long lever
Lateral connections			104.52.6.27.P		Rear connections
  			CONNECTION TYPE P L = Lateral P = Rear		  
Weight gr. 120 Switch 2 positions stable					Weight gr. 120 Switch 2 positions stable
					
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

Switch - long lever		5/3	Ordering code	5/3	Switch - long lever
Lateral connections			104.53.6.27.SP		Rear connections
  			FUNCTION F 32 = Open centres 33 = Pressured centres SWITCH POSITIONS S 0 = 3 pos. instable 1 = 3 pos. stable CONNECTION TYPE P L = Lateral P = Rear		  
Weight gr. 120 Switch 2 positions stable					Weight gr. 120 Switch 2 positions stable
   					
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube

1

Key switch <i>Lateral connections</i>	2/2 3/2	Ordering code 104.T.6.28.P.F <div style="border: 1px solid black; padding: 2px;"> <p>TYPE</p> <p>T 22 = 2 ways 32 = 3 ways</p> <p>CONNECTION TYPE</p> <p>P L = Lateral P = Rear</p> <p>FUNCTION</p> <p>F A = Normally Open C = Normally Closed</p> </div>	2/2 3/2	Key switch <i>Rear connections</i>												
																
Weight gr. 100 Switch 2 positions stable				Weight gr. 100 Switch 2 positions stable												
Operational characteristic <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Fluid</th> <th>Max working pressure (bar)</th> <th>Temperature °C</th> <th>Flow rate at 6 bar with Δp=1 (NI/min)</th> <th>Orifice size (mm)</th> <th>Working ports size</th> </tr> <tr> <td>Filtered air, with or without lubrication</td> <td>10 bar</td> <td>-5 - +70</td> <td>90 NI/min</td> <td>mm 2,5</td> <td>ø4 tube</td> </tr> </table>					Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube
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Key switch <i>Lateral connections</i>	5/2	Ordering code 104.52.6.28.P <div style="border: 1px solid black; padding: 2px;"> <p>CONNECTION TYPE</p> <p>P L = Lateral P = Rear</p> </div>	5/2	Key switch <i>Rear connections</i>												
																
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Key switch <i>Lateral connections</i>	5/3	Ordering code 104.53.F.6.28.S.P <div style="border: 1px solid black; padding: 2px;"> <p>FUNCTION</p> <p>F 32 = Open centres 33 = Pressured centres</p> <p>SWITCH POSITIONS</p> <p>S 0 = 3 pos. instable 1 = 3 pos. stable</p> <p>CONNECTION TYPE</p> <p>P L = Lateral P = Rear</p> </div>	5/3	Key switch <i>Rear connections</i>												
																
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Lever roller - Spring	2/2 3/2	Ordering code 104.T.2.1.P.F	2/2 3/2	Lever roller - Spring				
<i>Lateral connections</i>				<i>Rear connections</i>				
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;"> TYPE T 22 = 2 ways 32 = 3 ways CONNECTION TYPE P L = Lateral P = Rear FUNCTION F A = Normally Open C = Normally Closed </td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>					TYPE T 22 = 2 ways 32 = 3 ways CONNECTION TYPE P L = Lateral P = Rear FUNCTION F A = Normally Open C = Normally Closed			
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Weight gr. 31 Operating force 9N		Weight gr. 31 Operating force 9N						
Operational characteristic								
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size			
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube			

Lever roller ball bearing - Spring	2/2 3/2	Ordering code 104.T.2.1/1.P.F	2/2 3/2	Lever roller ball bearing - Spring				
<i>Lateral connections</i>				<i>Lateral connections</i>				
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Weight gr. 46 Operating force 9N		Weight gr. 46 Operating force 9N						
Operational characteristic								
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size			
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube			

Lever unidirectional - Spring	2/2 3/2	Ordering code 104.T.3.1.P.F	2/2 3/2	Lever unidirectional - Spring				
<i>Lateral connections</i>				<i>Lateral connections</i>				
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Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size			
Filtered air, with or without lubrication	10 bar	-5 - +70	90 NI/min	mm 2,5	ø4 tube			

1

Complete lever roller operator

Ordering code

104.2.1



Complete lever roller ball bearing operator

Ordering code

104.2.1/1



Complete lever unidirectional

Ordering code

104.3.1



Fixing plate

Ordering code

104.00



Completo with fixing screws

Push button

Ordering code

104.6.22/©

BUTTON COLOR

1 = Red

2 = Black

3 = Green

4 = Yellow



Raised Push button

Ordering code

104.6.23/©

BUTTON COLOR

1 = Red

2 = Black

3 = Green

4 = Yellow



Push button 2 positions

Ordering code

104.6.31

(step - step)



Palm button 2 position

Ordering code

104.6.25

Emergency - Rotate to unlock



Switch - short lever

Ordering code

104.6.30.©

SWITCH POSITIONS

0 = 3 pos. instable

1 = 3 pos. stable

Switch 3 positions



Switch - short lever

Ordering code

104.6.30

Switch 2 positions stable



Switch - long lever

Ordering code	
104.6.27. S	
S SWITCH POSITIONS	
0 = 3 pos. instable	
1 = 3 pos. stable	
Switch 3 positions	



Switch - long lever

Ordering code	
104.6.27	
Switch 2 positions stable	



Key switch

Ordering code	
104.6.28. S	
S SWITCH POSITIONS	
0 = 3 pos. instable	
1 = 3 pos. stable	
Switch 3 positions	



Key switch

Ordering code	
104.6.28	
Switch 2 positions stable	



Joystick selector switch

Ordering code	
104.6.39. S	
S SWITCH POSITIONS	
0 = 3 pos. instable	



Complete Pneumatic Operator

Ordering code	
104.11	



Contact electric element

Ordering code	
104.F	
F FUNCTION	
NA = Normally Open	
NC = Normally Closed	



Push button protection cover

Ordering code	
104.02	

