PREUMAX

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)
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).







Tappet panel - Spring

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 (NI/min)	120	
Orifice size (mm)	2.5	
Working ports size	M5	

105.0.0.1 Coding:

	TYPE	1
0	32 = 3 ways	
	52 = 5 ways	



105.32.0.1



3 ways



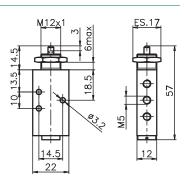
Weight 70 g Operating force 14 N

M12x1

5 ways



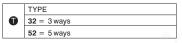
Weight 87 g Operating force 14 N



Lever roller - Spring

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5





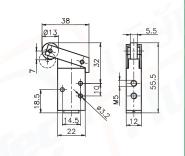




3 ways

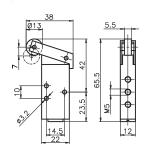


Weight 85 g Operating force 6 N





Weight 102 g Operating force 6 N



Lever roller ball bearing - Spring

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 (NI/min)	120	
Orifice size (mm)	2.5	
Working ports size	M5	

105.1.2.1/1 Coding:

	TYPE
•	32 = 3 ways
	52 = 5 ways



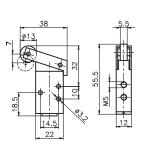


105.52.2.1/1





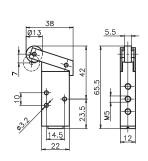
Weight 100 g Operating force 6 N



5 ways



Weight 177 g Operating force 6 N



Lever button - Spring

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 (NI/min)	120	
Orifice size (mm)	2.5	
Working ports size	M5	

105.0.2.6/ Coding:

Ū	TYPE
	32 = 3 ways
	52 = 5 ways
	BUTTON COLOR
	1 = Red
•	2 = Black
	3 = Green





105.52.2.6/







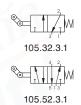
Weight 85 g Operating force 6 N

Lever unidirectional - Spring

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 $\Delta p=1$ (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.0.3.1 Coding:

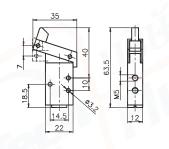
	TYPE
0	32 = 3 ways
	52 = 5 ways



3 ways

Weight 85 g Operating force 6 N









Lever panel Ø22 - 2 positions

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 (NI/min)	120	
Orifice size (mm)	2.5	
Working ports size	M5	

105.**⊕**.4/**⊜** Coding:

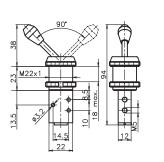
	TYPE
•	32 = 3 ways
	52 = 5 ways
	LEVER COLOR
•	1 = Red
	2 = Black
	3 = Green



3 ways



Weight 125 g





Weight 142 g

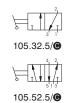
Spool valves and solenoid valves Series 105 - Mechanical and manual command



Lever panel Ø30 - 2 positions

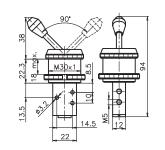
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

	Codi	ng: 105. ⊕ .5/ ⊚
	TYPE	
Э	32 = 3 ways	
_	_	52 = 5 ways
	LEVER COLOR 1 = Red	
_		
	•	2 = Black

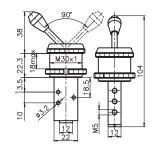


3 ways





3 = Green



Weight 165 g

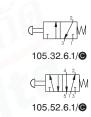
Push button Ø30 - Spring

Operational characteristics	
Filtered air. No lubrication needed, if applied it shall be continuous	
10	
-5 ÷ +70	
120	
2.5	
M5	

105.**1**.6.1/ Coding:

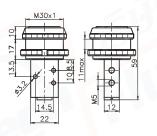
Weight 182 g

	TYPE
•	32 = 3 ways
	52 = 5 ways
	BUTTON COLOR
	1 = Red
©	2 = Black
	3 = Green



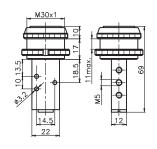
3 ways





5 ways





Weight 140 g Operating force 14 N

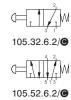
Push button Ø22 - Spring

Weight 123 g Operating force 14 N

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 (NI/min)	120	
Orifice size (mm)	2.5	
Working ports size	M5	

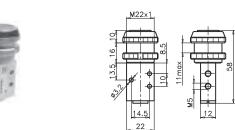
Coding: 105.0.6.2/@

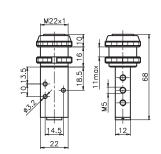
	TYPE
32 = 3 ways	
	52 = 5 ways
	BUTTON COLOR
	1 = Red
•	2 = Black
	3 = Green



3 ways







Weight 119 g Operating force 14 N

5 ways

Weight 102 g Operating force 14 N

Push button - Spring

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.0.6.22/@ Coding:

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





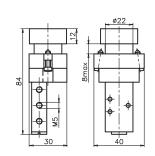
105.52.6.22/



Weight 165 g Operating force 14 N



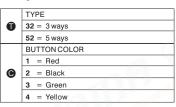
Weight 182 g Operating force 14 N



Raised Push button - Spring

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 $\Delta p=1$ (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.**0**.6.23/**©** Coding:



105.32.6.23/@



3 ways

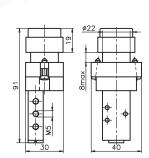


Weight 170 g Operating force 14 N

5 ways



Weight 187 g Operating force 14 N



Switch 2 positions

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.0.6.27 Coding:

	TYPE
0	32 = 3 ways
	52 = 5 ways



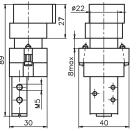


105.52.6.27

3 ways



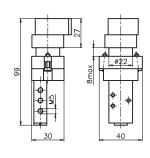
Weight 185 g



5 ways



Weight 202 g







Key switch 2 positions

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 ∆p=1 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.0.6.28 Coding:

0	TYPE
	32 = 3 ways
	52 = 5 ways

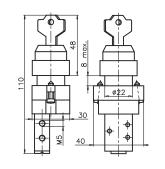




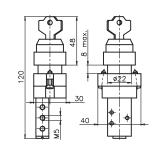
105.52.6.28

3 ways









Weight 215 g

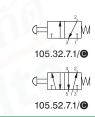
Palm pushbutton Ø30 - Spring

Operational characteristics		
Filtered air. No lubrication needed, if applied it shall be continuous		
10		
-5 ÷ +70		
120		
2.5		
M5		

105.**1**.7.1/ Coding:

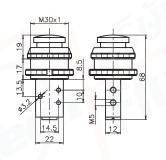
Weight 232 g

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



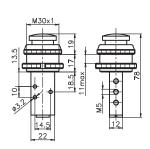
3 ways





5 ways





Weight 143 g Operating force 14 N

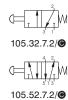
Palm pushbutton Ø22 - Spring

Weight 126 g Operating force 14 N

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

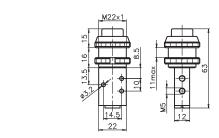
105.0.7.2/@ Coding:

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



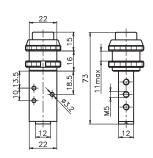
3 ways





5 ways

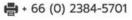




Weight 103 g Operating force 14 N

Weight 120 g Operating force 14 N





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Push button

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.**①**.8.1/**②** Coding:

	TYPE
•	32 = 3 ways
	52 = 5 ways
	BUTTON COLOR
	1 = Red
0	2 = Black
	3 = Green





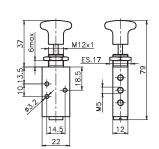
105.52.8.1/



Weight 75 g Operating force 14 N



Weight 92 g Operating force 14 N



Push button 2 positions

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding:

105.**①**.8/**②**

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



105.52.8/

3 ways

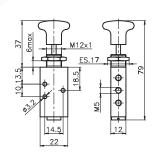


Weight 75 g Operating force 14 N

5 ways



Weight 92 g Operating force 14 N



Whisker - Spring

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5

105.0.9.1 Coding:

	TYPE
•	32 = 3 ways
	52 = 5 ways

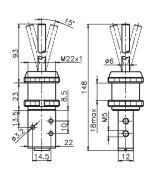


105.52.9.1

3 ways



Weight 136 g



5 ways



Weight 153 g

Handle with valve

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5 - Quick Fitting for Ø4 tube

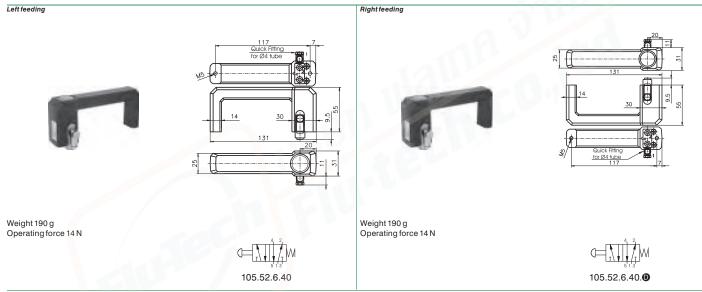
Coding:	105. ⊕ .6. ⋒ . ⊕

	TYPE		FUNCTION (only for 3 ways)
0	32 = 3 ways	•	A = Normally Open
	52 = 5 ways		C = Normally Closed
	FEEDING		
A	40 = Left feeding		
	40D = Right feeding		
	•	'	



Weight 165 g Operating force 14 N





Pneumatic - Spring

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 ∆p=1 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

105. 11.1 Coding:

	TYPE
0	32 = 3 ways
	52 = 5 ways



105.52.11.1



M5





0 M5

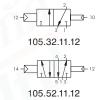
Weight 90 g Minimum piloting pressure 2,5 bar

Pneumatic - Differential external

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

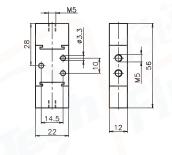
105.11.12 Coding:

	TYPE
O	32 = 3 ways
	52 = 5 ways



3 ways







Weight 120 g Minimum piloting pressure 2,5 bar

0 0

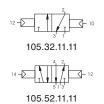
Pneumatic - Pneumatic

Weight 110 g Minimum piloting pressure 2,5 bar

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 (NI/min)	120
Orifice size (mm)	2.5
Working ports size	M5
Pilot ports size	M5

Coding: 105.0.11.11

	TYPE
0	32 = 3 ways
	52 = 5 ways



3 ways



Weight 110 g Minimum piloting pressure 2,5 bar

Φ þ

5 ways



Weight 120 g Minimum piloting pressure 2,5 bar

