



Series 105

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
Spacers	Technopolymer
Seals	NBR
Springs	Spring steel
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)
Pistons	Aluminium (for pneumatic command version)
Spools	Steel

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 CASTROL MAGNA SW32.

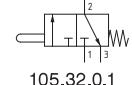
► Tappet panel - Spring

Operational characteristics

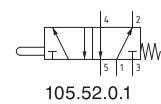
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding: 105.T.0.1

T	TYPE
32	3 ways, 2 positions
52	5 ways, 2 positions



105.32.0.1

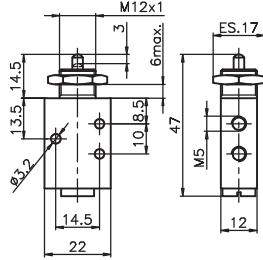


105.52.0.1

3/2 ways



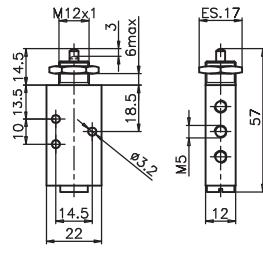
Weight 70 g
Operating force 14 N



5/2 ways



Weight 87 g
Operating force 14 N



1

AIR DISTRIBUTION

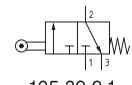
► Lever roller - Spring

Operational characteristics

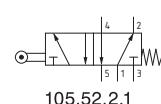
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding: 105.T.2.1

T	TYPE
32	3 ways, 2 positions
52	5 ways, 2 positions



105.32.2.1

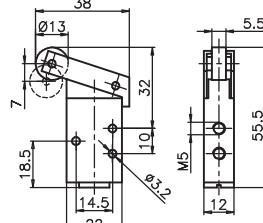


105.52.2.1

3/2 ways



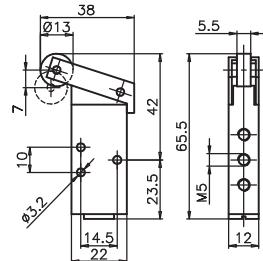
Weight 85 g
Operating force 6 N



5/2 ways



Weight 102 g
Operating force 6 N



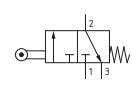
► Lever roller ball bearing - Spring

Operational characteristics

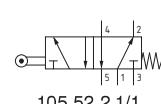
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding: 105.T.2.1/1

T	TYPE
32	3 ways, 2 positions
52	5 ways, 2 positions



105.32.2.1/1

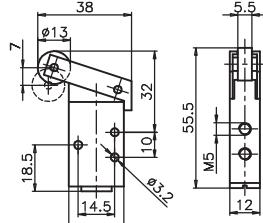


105.52.2.1/1

3/2 ways



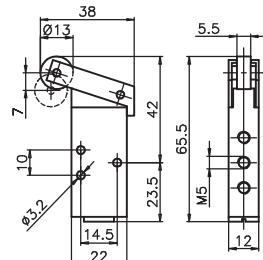
Weight 100 g
Operating force 6 N



5/2 ways



Weight 177 g
Operating force 6 N





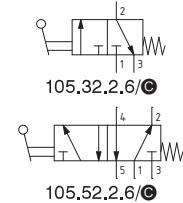
Spool type valves and solenoid valves

Series 105 - Mechanical and manual command - M5

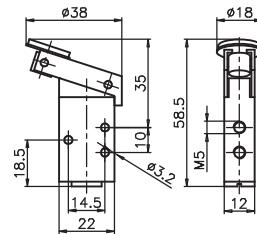
Lever button - Spring

Coding: 105.T.2.6/C

TYPE	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
BUTTON COLOR	1 = Red
	2 = Black

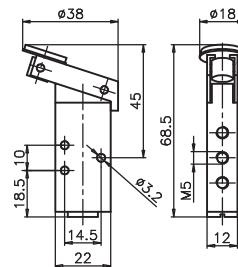


3/2 ways



Weight 85 g
Operating force 6 N

5/2 ways

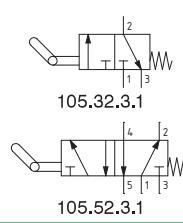


Weight 102 g
Operating force 6 N

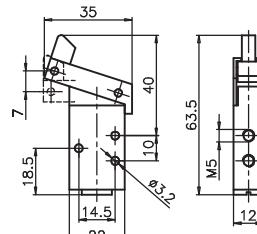
Lever unidirectional - Spring

Coding: 105.T.3.1

TYPE	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions

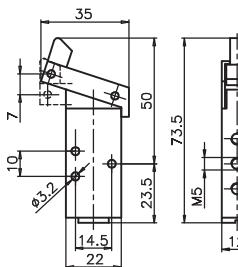


3/2 ways



Weight 85 g
Operating force 6 N

5/2 ways

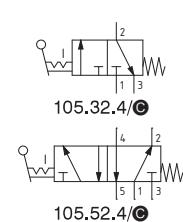


Weight 102 g
Operating force 6 N

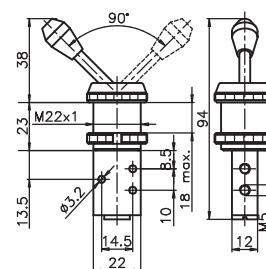
Lever panel Ø22 - 2 positions

Coding: 105.T.4/C

TYPE	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
LEVER COLOR	1 = Red
	2 = Black

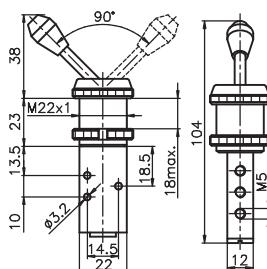


3/2 ways



Weight 125 g

5/2 ways



Weight 142 g

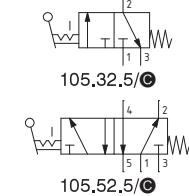
► **Lever panel Ø30 - 2 positions**

Operational characteristics

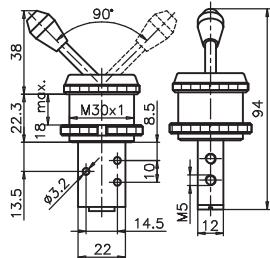
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding: 105.T.5/C

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

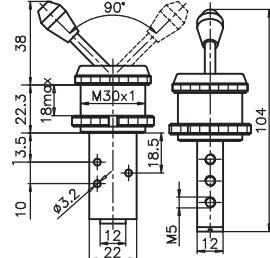


3/2 ways



Weight 165 g

5/2 ways



Weight 182 g

1

AIR DISTRIBUTION

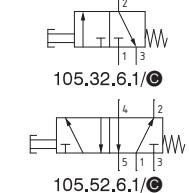
► **Push button Ø30 - Spring**

Operational characteristics

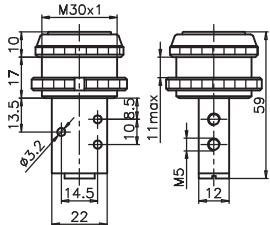
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding: 105.T.6.1/C

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

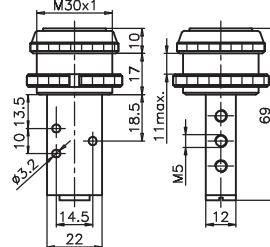


3/2 ways



Weight 123 g
Operating force 14 N

5/2 ways



Weight 140 g
Operating force 14 N

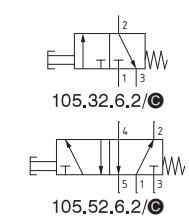
► **Push button Ø22 - Spring**

Operational characteristics

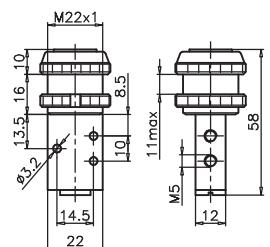
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

Coding: 105.T.6.2/C

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

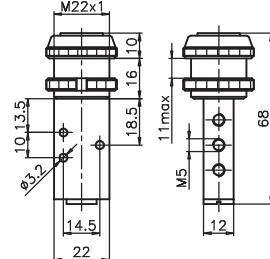


3/2 ways



Weight 102 g
Operating force 14 N

5/2 ways



Weight 119 g
Operating force 14 N



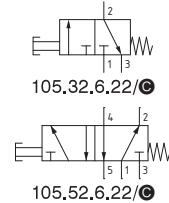
► Push button - Spring

Coding: 105.T.6.22/C

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

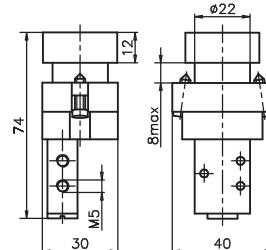
TYPE
32 = 3 ways, 2 positions
52 = 5 ways, 2 positions
BUTTON COLOR
1 = Red
2 = Black
3 = Green
4 = Yellow



3/2 ways



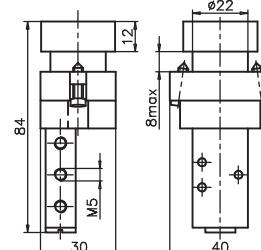
Weight 165 g
Operating force 14 N



5/2 ways



Weight 182 g
Operating force 14 N



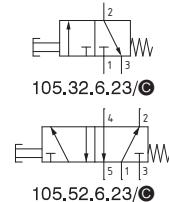
► Raised Push button - Spring

Coding: 105.T.6.23/C

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

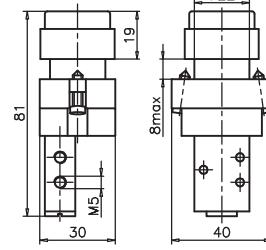
TYPE
32 = 3 ways, 2 positions
52 = 5 ways, 2 positions
BUTTON COLOR
1 = Red
2 = Black
3 = Green
4 = Yellow



3/2 ways



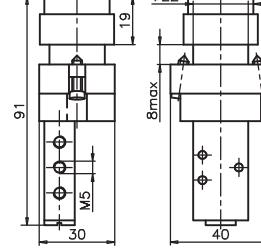
Weight 170 g
Operating force 14 N



5/2 ways



Weight 187 g
Operating force 14 N



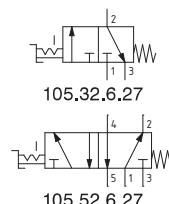
► Switch 2 positions

Coding: 105.T.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 $\Delta p = 1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5

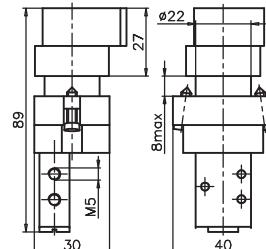
TYPE
32 = 3 ways, 2 positions
52 = 5 ways, 2 positions



3/2 ways



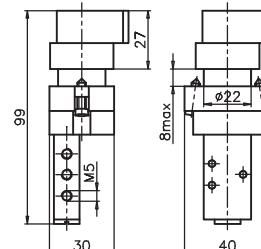
Weight 185 g



5/2 ways



Weight 202 g





Spool type valves and solenoid valves

Series 105 - Mechanical and manual command - M5

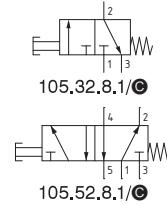
Push button

Coding: 105.T.8.1/©

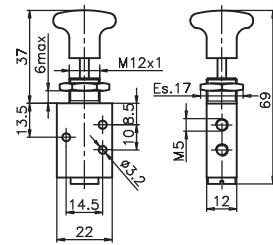
Operational characteristics

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

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

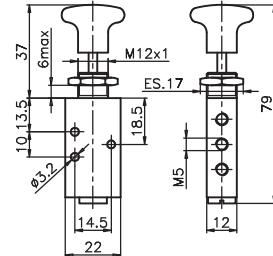


3/2 ways



Weight 75 g
Operating force 14 N

5/2 ways



Weight 92 g
Operating force 14 N

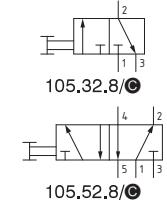
Push button 2 positions

Coding: 105.T.8.8/©

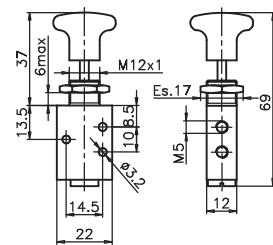
Operational characteristics

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

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

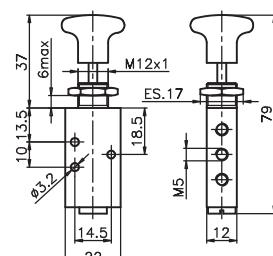


3/2 ways



Weight 75 g
Operating force 14 N

5/2 ways



Weight 92 g
Operating force 14 N

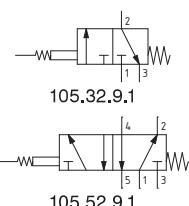
Whisker - Spring

Coding: 105.T.9.1

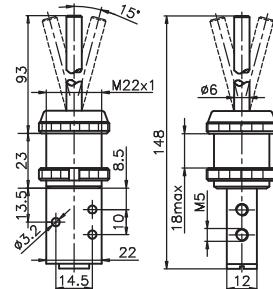
Operational characteristics

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

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

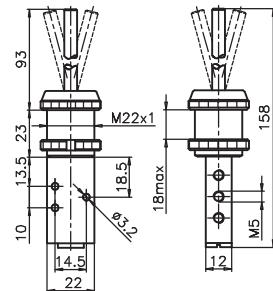


3/2 ways



Weight 136 g

5/2 ways



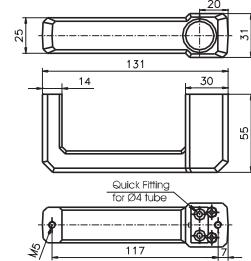
Weight 153 g

Handle with valve

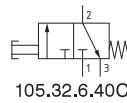
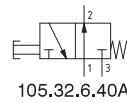
Coding: 105.T.6.A.F

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 $\Delta p = 1$ (NL/min)	120
Orifice size (mm)	2.5
Working ports size	M5 - Quick Fitting for Ø4 tube

TYPE	FUNCTION (only for 3 ways)	
	F	A = Normally Open C = Normally Closed
32 = 3 ways, 2 positions		
52 = 5 ways, 2 positions		
FEEDING		
A	40 = Left feeding	
	40D = Right feeding	



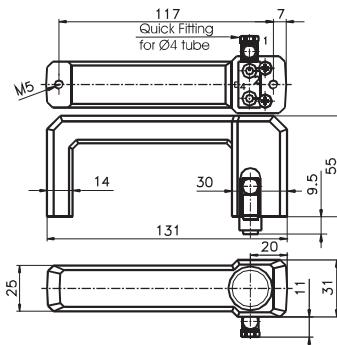
Weight 165 g
Operating force 14 N



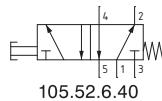
105.32.6.40A

105.32.6.40C

Left feeding

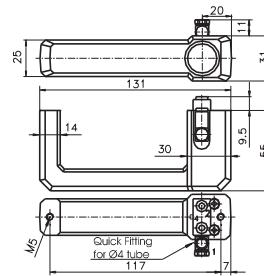


Weight 190 g
Operating force 14 N

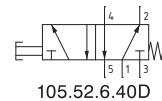


105.52.6.40

Right feeding



Weight 190 g
Operating force 14 N



105.52.6.40D



Spool type valves and solenoid valves

Series 105 - Pneumatic command valves - M5

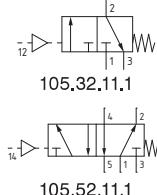
Pneumatic - Spring

Coding: 105.T11.1

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

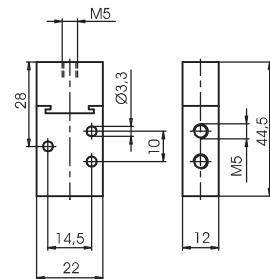
TYPE	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



3/2 ways



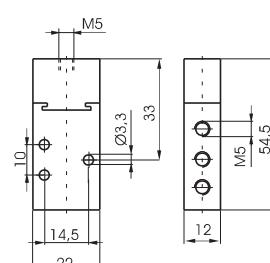
Weight 90 g
Minimum pilot pressure 2,5 bar



5/2 ways



Weight 100 g
Minimum pilot pressure 2,5 bar

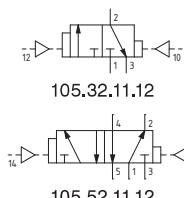


Coding: 105.T11.12

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

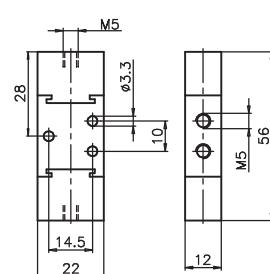
TYPE	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



3/2 ways



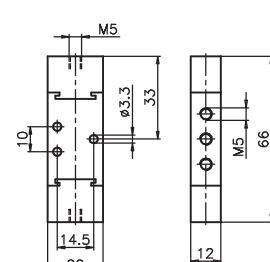
Weight 110 g
Minimum pilot pressure 2,5 bar



5/2 ways



Weight 120 g
Minimum pilot pressure 2,5 bar

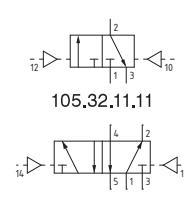


Coding: 105.T11.11

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

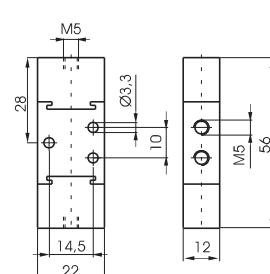
TYPE	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



3/2 ways



Weight 110 g
Minimum pilot pressure 2,5 bar



5/2 ways



Weight 120 g
Minimum pilot pressure 2,5 bar

