

# 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.

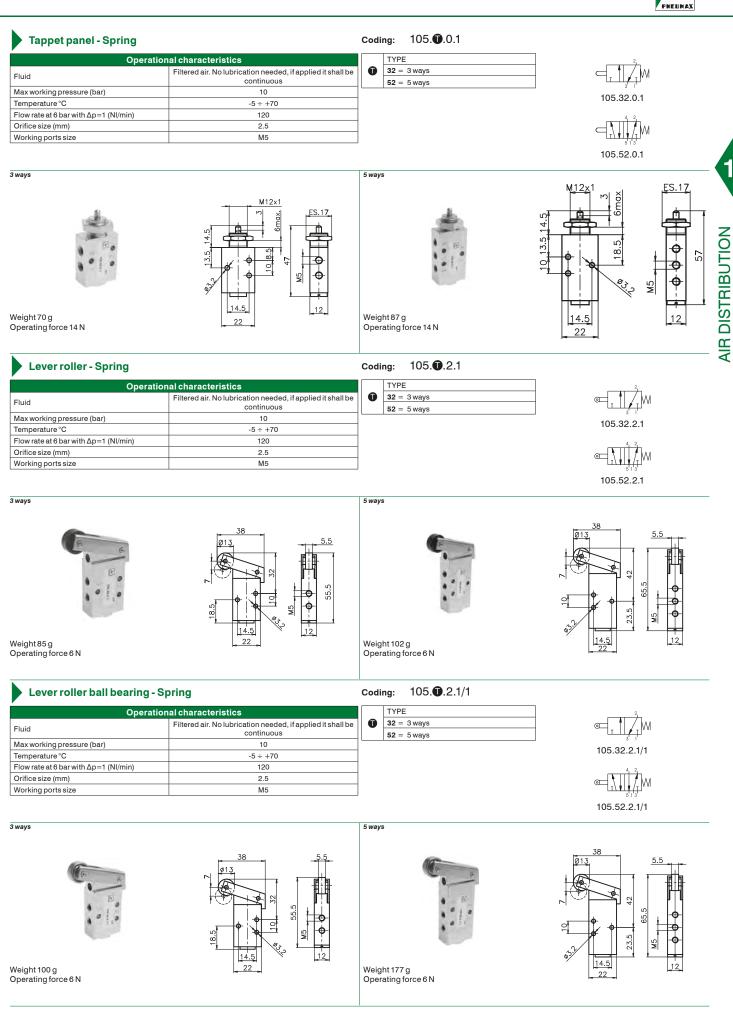
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Repair kits including the spool complete with seals are available for overhauling the valves.

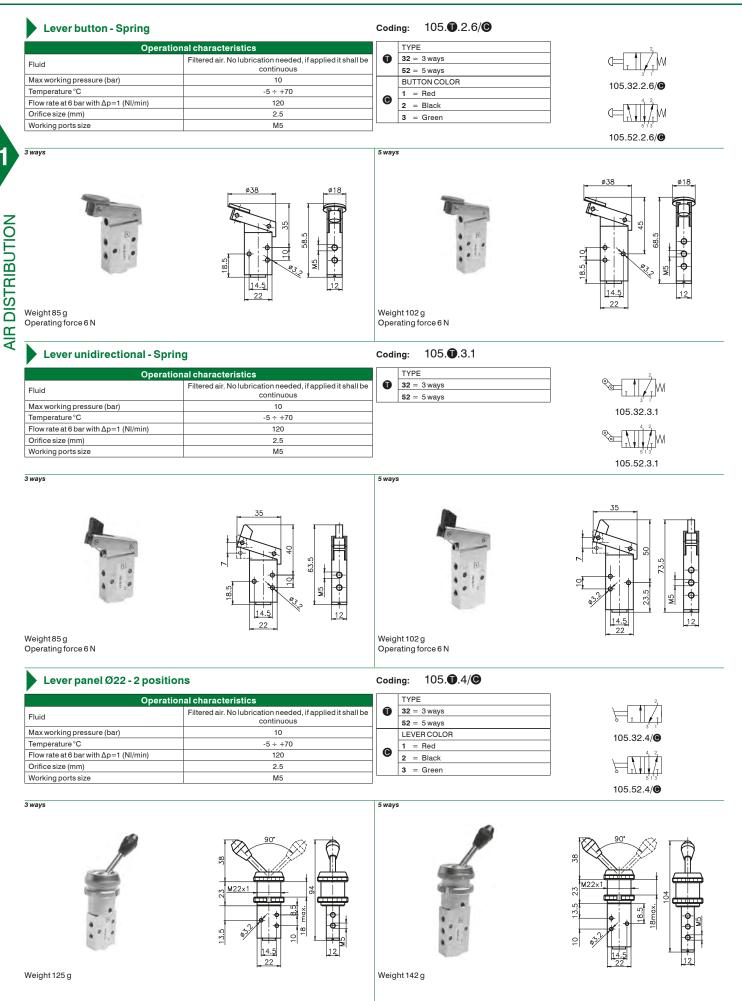
However, although this is a simple operation it should be carried out by a competent person.

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



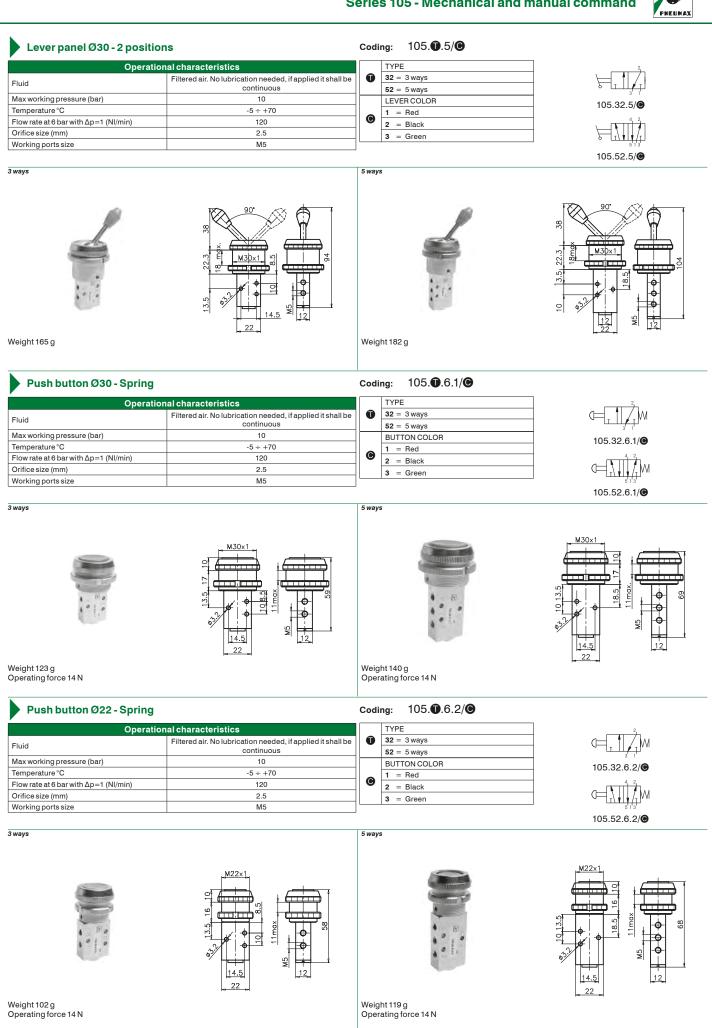








**AIR DISTRIBUTION** 





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

continuous

10

-5 ÷ +70

120

2.5

M5

**Operational characteristics** 



Max working pressure (bar)

Flow rate at 6 bar with  $\Delta p{=}1$  (NI/min)

Temperature °C

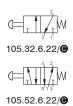
Orifice size (mm)

Working ports size

### Coding: 105.0.6.22/

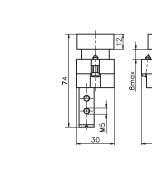
5 ways



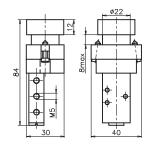


3 ways

Fluid



Weight 182 g



Weight 165 g Operating force 14 N

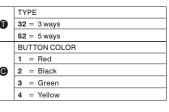
#### Raised Push button - Spring

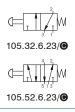
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	G
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	120	
Orifice size (mm)	2.5	
Working ports size	M5	11

#### Coding: 105.0.6.23/

Operating force 14 N

5 ways



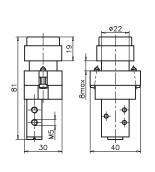


Weight 170 g

Operating force 14 N

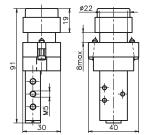
3 ways







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Weight 187 g Operating force 14 N

> TYPE 32 = 3 ways

> 52 = 5 ways

Coding:

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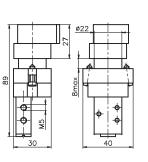
5 ways

## Switch 2 positions

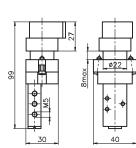
Operational characteristics			
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10		
Temperature °C	-5 ÷ +70		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	120		
Orifice size (mm)	2.5		
Working ports size	M5		

3 ways









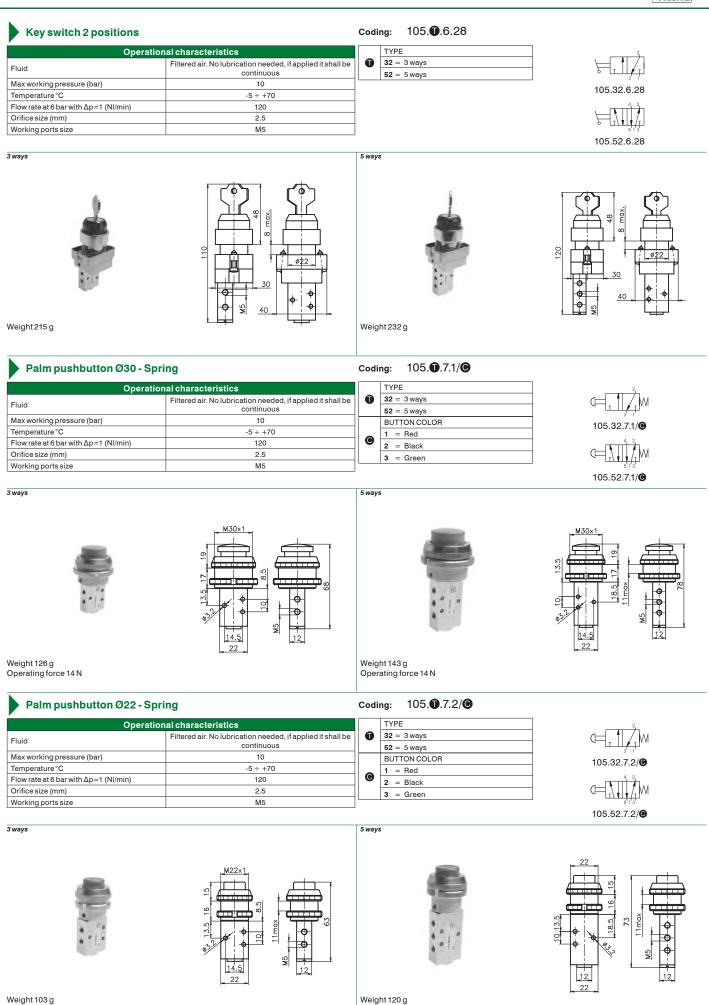
Weight 185 g

Weight 202 g



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**AIR DISTRIBUTION** 



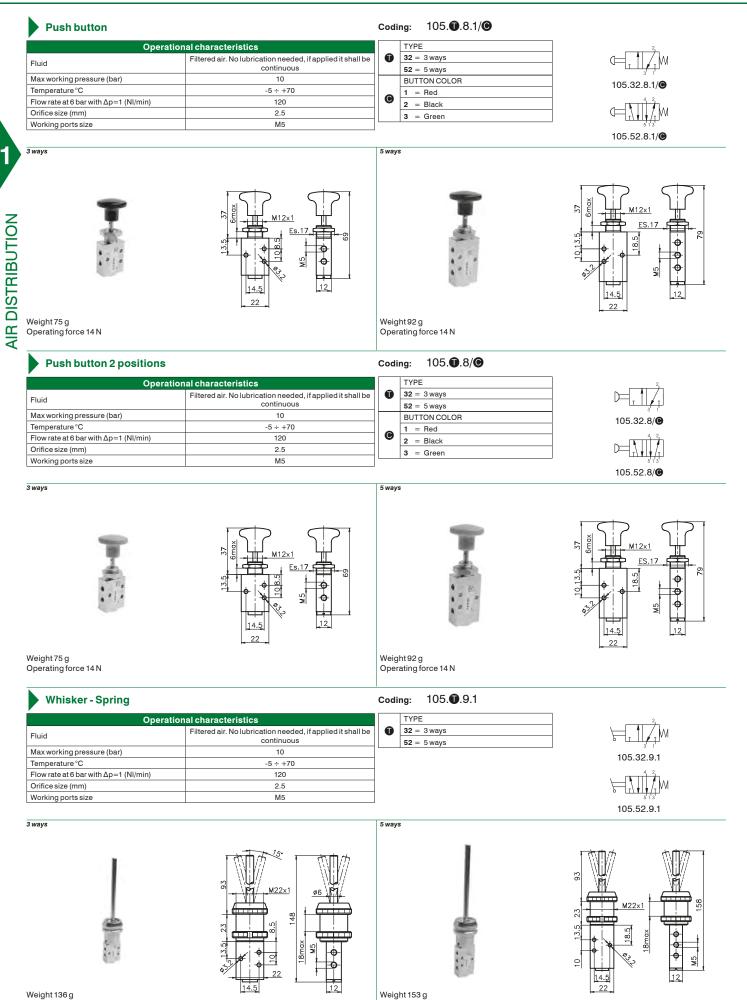
Operating force 14 N

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Operating force 14 N

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