



## General

The pneumatic actuated valves are grouped in this part of catalogue because they have similar operating conditions of the solenoid valves. In fact the commutation signal is remote as it is for the manual and mechanical actuated valves.

In the first part of these catalogues are listed the pneumatic actuated valves for single use not suitable to be assembled on bases but eventually on manifold with one inlet port only.

The valves series 800 are suitable for both single and ganged applications. These valves have a diversified use of 3-ways and 5-ways based on balanced spool as shown on functional symbols. The repositions are made by spring, differential pneumatic spring or pneumatic for the bistable and centre spring return.

## Construction characteristics

	Body	Actuators	Bottom plates	Pistons	Spacers	Seals	Spools	Springs
Series 104	Technopolymer		/	Aluminium	Technopolymer	NBR	Steel	Stainless steel
Series 105	Aluminium		/					Spring steel
Series 805	Aluminium				/	HNBR	Aluminium	Stainless steel
Series 808								Spring steel
Series 228	Aluminium	Aluminium Technopolymer	Technopolymer			NBR	Steel	Spring steel
Series T228 (Ver. 3/2-5/2)	Technopolymer					NBR	Technopolymer	Spring steel
Series T228 (Ver.5/3)							Steel	
Series 488	Aluminium	Technopolymer				NBR	Steel	Stainless steel
Series T488 (Ver. 3/2- 5/2)	Technopolymer					NBR	Technopolymer	
Series T488 (Ver. 5/3)							Steel	
Series 224	Aluminium		Technopolymer	Aluminium	Technopolymer	NBR	Steel	
Series T224 (Ver. 3/2-5/2)	Technopolymer					NBR	Technopolymer	Spring steel
Series T224 (Ver. 5/3)							Steel	Stainless steel
Series 212	Aluminium				Technopolymer	NBR	Steel	Spring steel
Series 212/2					/	PUR	Aluminium	
Series 211	Aluminium					NBR	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).



1

Pneumatic - Spring

3/2

Ordering code

805.11.1

TYPE

32 = 3 ways

52 = 5 ways

5/2

Pneumatic - Spring

Weight gr. 45

Minimum piloting pressure 2 bar

Weight gr. 50

Minimum piloting pressure 2 bar

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	Pilot ports size
Filtered and lubricated air	10 bar	-5 - +70	160 NI/min	mm 2,5	M5	M5

Pneumatic - Differential

3/2

Ordering code

805.11.12

TYPE

32 = 3 ways

52 = 5 ways

5/2

Pneumatic - Differential

Weight gr. 50

Minimum piloting pressure 2 bar

Weight gr. 55

Minimum piloting pressure 2 bar

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	Pilot ports size
Filtered and lubricated air	10 bar	-5 - +70	160 NI/min	mm 2,5	M5	M5

Pneumatic - Pneumatic

3/2

Ordering code

805.11.11

TYPE

32 = 3 ways

52 = 5 ways

5/2

Pneumatic - Pneumatic

Weight gr. 55

Minimum piloting pressure 1,5 bar

Weight gr. 60

Minimum piloting pressure 1,5 bar

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	Pilot ports size
Filtered and lubricated air	10 bar	-5 - +70	160 NI/min	mm 2,5	M5	M5



1

Pneumatic - Spring

3/2

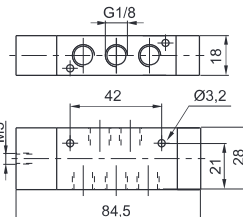
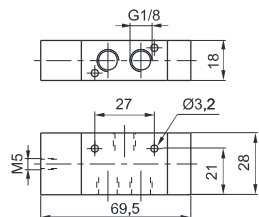
Ordering code

808.11.1

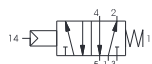
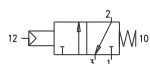
TYPE  
32 = 3 ways  
52 = 5 ways

5/2

Pneumatic - Spring



Weight gr. 95  
Minimum piloting pressure 2 bar



Weight gr. 100  
Minimum piloting pressure 2 bar

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	Pilot ports size
Filtered and lubricated air	10 bar	-5 - +70	520 NI/min	mm 4	G 1/8"	M5

Pneumatic - Differential

3/2

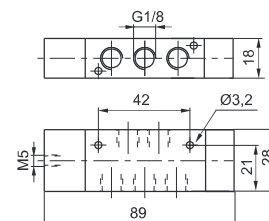
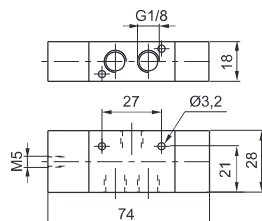
Ordering code

808.11.12

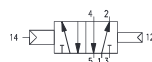
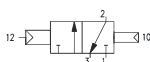
TYPE  
32 = 3 ways  
52 = 5 ways

5/2

Pneumatic - Differential



Weight gr. 105  
Minimum piloting pressure 2 bar



Weight gr. 110  
Minimum piloting pressure 2 bar

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	Pilot ports size
Filtered and lubricated air	10 bar	-5 - +70	520 NI/min	mm 4	G 1/8"	M5

Pneumatic - Pneumatic

3/2

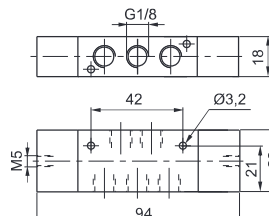
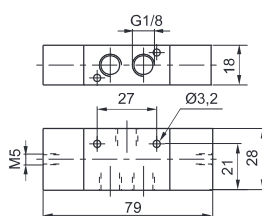
Ordering code

808.11.11

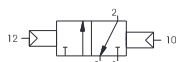
TYPE  
32 = 3 ways  
52 = 5 ways

5/2

Pneumatic - Pneumatic



Weight gr. 115  
Minimum piloting pressure 1,5 bar



Weight gr. 120  
Minimum piloting pressure 1,5 bar

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	Pilot ports size
Filtered and lubricated air	10 bar	-5 - +70	520 NI/min	mm 4	G 1/8"	M5



1

Manifolds

Ordering code

808.N

N. POSITIONS

02 = 2 pos. (weight gr. 180)

03 = 3 pos. (weight gr. 245)

04 = 4 pos. (weight gr. 310)

05 = 5 pos. (weight gr. 375)

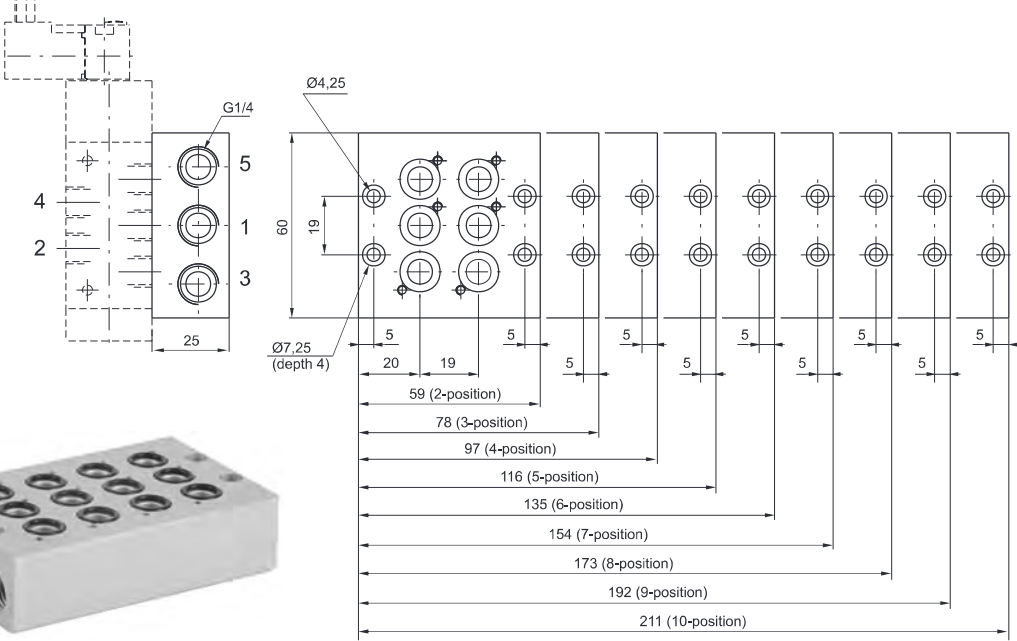

06 = 6 pos. (weight gr. 440)

07 = 7 pos. (weight gr. 500)

08 = 8 pos. (weight gr. 560)

09 = 9 pos. (weight gr. 620)

10 = 10 pos. (weight gr. 680)



Clip

Ordering code

800.00



Weight gr. 5  
(for mounting the distributors groups on guide DIN 46277/3)

Closing plate

Ordering code

808.00



Weight gr. 65