



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	Spring 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).

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Pneumatic - Spring	3/2	Ordering code T488.11.1	5/2	Pneumatic - Spring			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
TYPE							
32 = 3 ways							
52 = 5 ways							

Weight gr. 75
Minimum operating pressure 2,5 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
Filtered and lubricated air	10	-5 - +50	620	6	G 1/8"

Pneumatic - Differential (external)	3/2	Ordering code T488.11.12	5/2	Pneumatic - Differential (external)			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
TYPE							
32 = 3 ways							
52 = 5 ways							

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 and lubricated air	10	-5 - +50	620	6	G 1/8"

Pneumatic - Pneumatic	3/2	Ordering code T488.11.11	5/2	Pneumatic - Pneumatic			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>TYPE</td></tr> <tr><td>32 = 3 ways</td></tr> <tr><td>52 = 5 ways</td></tr> </table>	TYPE	32 = 3 ways	52 = 5 ways		
TYPE							
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52 = 5 ways							

Minimum operating pressure 2 bar (for Pneumatic-Pneumatic version)

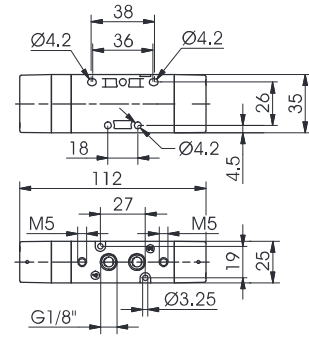
Operational characteristic					
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size
Filtered and lubricated air	10	-5 - +50	620	6	G 1/8"



Pneumatic - Pneumatic

5/3

Ordering code
T488.53.F.11.11
FUNCTION
F 32 = Open Centres
33 = Pressured Centres



Weight gr. 140
Minimum operating pressure 3 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
Filtered and lubricated air	10	-5 - +50	410	6	G 1/8"

