



General

The main characteristic of these valves is their poppet type construction. This offers superior resistance to adverse operating conditions such as dust particles in the compressed air, insufficient lubrication and so on.

On the other hand the valves operate as 3-ways or 2-ways only, normally closed, and the required operating force increases with increases in line pressure.

The main components constituting the valves of the Tecno228 series are manufactured with high performance technopolymer. The use of tecnopolymer has resulted in a light weight product which can be offered to the market at very interesting prices. This valve series is manufactured with 1/8" connections, 3 and 5 ways function, mechanical or pneumatically operated, monostable spring or pneumatic return, bistable and in 5 ways 3 positions version with closed, open and pressured centres. This series is completely interchangeable with the standard 228 series (with aluminium body)

Construction characteristics

	G 1/8" - G 1/4" - G 1/2" - G 1"	G 1/8" (in Technopolymer T228 Series)
Body	Aluminium	Technopolymer
Actuators	Aluminium	Technopolymer
	Technopolymer	
Spool	Stainless steel	Technopolymer (5/2 version)
	Technopolymer	Nickel plated steel (5/3 version)
Seals	NBR	NBR
Spacers	Technopolymer (Aluminium for G 1")	Technopolymer
Spring	Spring steel	Spring steel
Pistons	Technopolymer	Technopolymer

Maximum fitting torque (for T228 Series)

Thread	Maximum Torque (Nm)
G 1/8"	4

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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Flu-tech co.,ltd

Lever roller unidirectional - Spring	3/2	Ordering code 228.1.3.V	5/2	Lever roller unidirectional - Spring
 		TYPE T 32 = 3 ways 52 = 5 ways VERSION V 1 = Plastic roller 1/2 = Metal roller		
Weight gr. 110				
				Weight gr. 130

Operational characteristics	Fluid	Max working pressure	Operating Temperature		Flow rate at 6 bar with $\Delta p=1$	Orifice size	Working port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +70°C	540 NI/min	mm 6	G 1/8"

Lever roller lateral bidirectional - Spring	3/2	Ordering code 228.1.4.1	5/2	Lever roller lateral bidirectional - Spring
 		TYPE T 32 = 3 ways 52 = 5 ways		
Weight gr. 180				
				Weight gr. 200

Operational characteristics	Fluid	Max working pressure	Operating Temperature		Flow rate at 6 bar with $\Delta p=1$	Orifice size	Working port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +70°C	540 NI/min	mm 6	G 1/8"

Lever sensitive - differential	3/2	Ordering code 228.1.4.13	5/2	Lever sensitive - differential
 		TYPE T 32 = 3 ways 52 = 5 ways		
Weight gr. 200 Minimum rotation angle 11° Minimum working pressure 2,5 bar				
				Weight gr. 220 Minimum rotation angle 11° Minimum working pressure 2,5 bar

Operational characteristics	Fluid	Max working pressure	Operating Temperature		Flow rate at 6 bar with $\Delta p=1$	Orifice size	Working port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +70°C	540 NI/min	mm 6	G 1/8"