

General

The large flow valves and solenoid poppet valves for compressed air and vacuum are manufactured for 3/2 and 2/2 versions only, either normally close and normally open.

For the compressed air oparation, the application is similar to the equivalent spool valves while for the vacuum operation a particular attention should be paid to the valve selected and its connection to the pump. For the electric pilot it is used a normal miniature solenoid M2 with pneumatic actuator and the special miniature solenoid M2/V with vacuum.

The ordering code are referring to the solenoid valves with mechanics "M2" or "M2/V" assembled (see Series 300). (Coil are not included and have to be ordored separately).



Construction characteristics

	G 3/8"	G 1/2" - G 3/4"	G 1"	G 1 1/2"
Body	Aluminium	Zinc alloy	Aluminium	Aluminium
Bottom plates	Aluminium			
Actuators	NBR			
Pistons	Aluminium			
Actuators rod	Stainless steel			
Spring	Stainless steel			
Piston seals	NBR			

Use and maintenance

These valves are a mean life of 10 to 15 millions of cycles under normal operating conditions.

Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.

Check that the operating conditions: pressure, temperature and so on are as suggested.

The exhaust port of the distributor has to be protected in a dusty and dirty environment.

For these products, according to the construction technique and special application, is not required any maintenance with parts replacement. When necessary it is sufficient to clean the internal parts.

When it is used the solenoid valves with internal pilot, either for air or vacuum, pay attention that the exhaust flow is not same as inlet flow otherwise there will not be sufficient differential pressure for depression for the piston. This happen normelly with poppet valves because they have no closed centres position and an insufficient pressure will put the valve in exhaust position through the port 3. In this case choose the external pilot version.

Vacuum valves connections

NORMALLY CLOSED INTERNAL PILOT		NORMALLY OPEN INTERNAL PILOT
779/V.32.0.1AC		779/V.32.0.1AA
773/V.32.0.1AC	P = 1 = EXHAUST	773/V.32.0.1AA P = 1 = PUMP
771/V.32.0.1AC	A = 2 = OUTLET	771/V.32.0.1AA A = 2 = OUTLET
	R = 3 = PUMP	R = 3 = EXHAUST
NORMALLY CLC	SED EXTERNAL PILOT	NORMALLY OPEN EXTERNAL PILOT
779/V.32.0.1C 773/V.32.0.1C 771/V.32.0.1C 779/V.32.11.1C 773/V.32.11.1C	P = 1 = PUMP A = 2 = OUTLET R = 3 = EXHAUST	779/V.32.0.1A 773/V.32.0.1A 771/V.32.0.1A 779/V.32.11.1A 773/V.32.11.1A 773/V.32.11.1A 773/V.32.11.1A















Valves and solenoid valves Poppet system 3/2 G1/2" for Vacuum



Valves and solenoid valves Poppet system 3/2 G3/4" for compressed air and Vacuum





Valves and solenoid valves Poppet system 3/2 G3/4" for Vacuum









Valves and solenoid valves Poppet system 3/2 G1" for Vacuum





characteristic

Filtered and lubri

cated air

10

2



33500

38

G1 1/2

-5 - +50

G 1/8



Valves and solenoid valves Poppet system 2/2 - 3/2 G1 1/2" - for Vacuum

