Series T771 - for compressed air & vacuum in technopolymer - G1"

General

The range of G1" pilot and solenoid operated poppet valves represents an evolution of the current popular Zama series and of the series T772-T773 (G1/2"-3/4").

Also for this series the main feature is the technopolimer material used to mould most of its components.

The use of this materiel results in a versatile, lightweight and economical valve.

This series also has other technical and functional enhancements over the existing range. Firstly, the traditional piston lip seal has been replaced with a rolling diaphragm, thereby eliminating frictional wear and tear to this seal.

This series (with the exception of certain vacuum models) also features a seal, which separates port 3 from the piston head. The inclusion of this seal has enhanced the valve's performance and allows the valve to be used as normally open (a configuration not possible in the Zama series).

Solenoid operated valves (both internal and external pilot versions) are fitted with a quick exhaust unit, which reduces the return stroke operating time by 80%.

The bulk of the valves in this series use the MP type operator, the exception being internally piloted vacuum models, which use the MV operator. These operators differ from the M2 type in that they have self-tapping mounting screws for use in plastics.

Bistable versions are also available, both for air or for vacuum. These valves are fitted with a 3/2 sol-sol valve (instead of the standard pilot valve) fitted with two 15mm 24V Dc microvalves (N331.0A).

The ordering code are referring to the solenoid valves with mechanics "MP" or "MV" assembled.

Coils are not included and have to be ordered separately (series 300, Section 1, General Catalogue), with the exception of the bistable versions which already include 24V Dc Coils (N331.0A).

Coil L Nus homologated are available (see 300 Series).

Construction characteristics

AISI 303 stainless steel	
Oil resistant rubber (NBR)	
High impact resistant thermoplastic	
NBR	
Acetal resin	

Use and maintenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.

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

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.

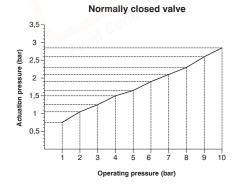
For these products, according to the construction technique and special application, is not required any maintenance with parts replacement.

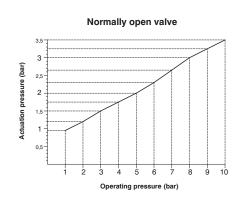
When necessary it is sufficient to clean the internal parts.

When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate.

Otherwise is better choose the external pilot version.

MINIMUM PILOTING PRESSURE DIAGRAM (Valves for compressed air) PNEUMATIC/SPRING AND EXTERNAL SOLENOID PILOT VERSION





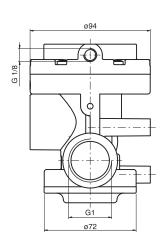


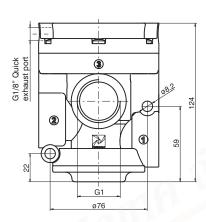


Pneumatic - Spring

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	See diagram at general page	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	







For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



T771.32.11.1

Coding:

For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1



Weight 480 g

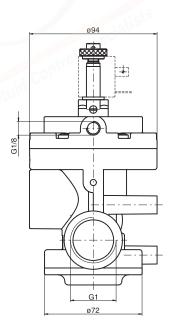
Solenoid-Spring - Internal pilot

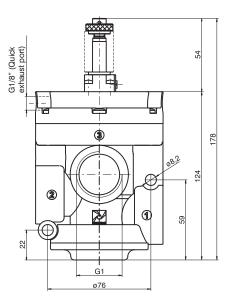
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	

	Coding:	1771.32.0. € .MP
1		

FUNCTION		
9	1AC =	Normally Closed
	1AA =	Normally Open







For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1







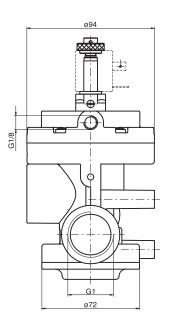
T771.32.0.1.MP

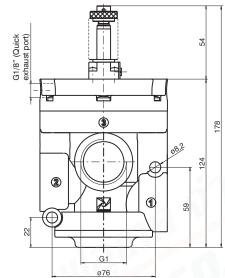
Coding:

Solenoid-Spring - External pilot

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar) See diagram at general page		
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	







For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1



Weight 520 g

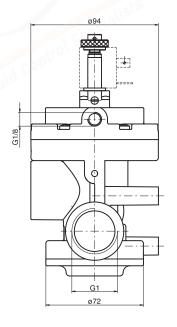
Solenoid-Spring - Internal pilot with quick exhaust

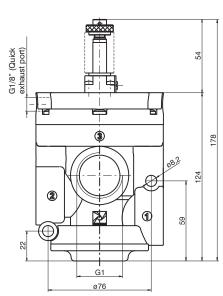
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	

T771S.32.0. . MP Coding:

	FUNCTION	
3	1AC =	Normally Closed
	1AA =	Normally Open







For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1





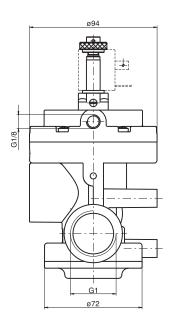


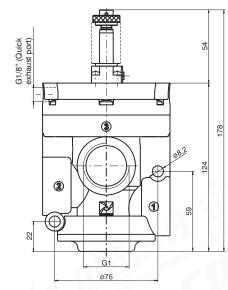


Solenoid - Spring - External pilot with quick exhaust

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	See diagram at general page	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	



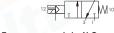




For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

T771S.32.0.1.MP

Coding:



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1







Series T771 - for vacuum in technopolymer - G1"



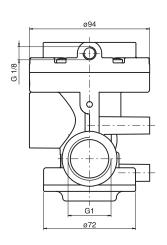
T771/V.32.11.1

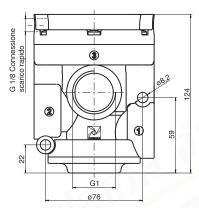
Coding:

Pneumatic - Spring

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	







For vacuum - N.C. Exhaust port 3 Outlet port 2 Pump 1



For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3

1AA =

Weight 480 g

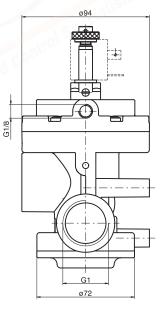
Solenoid-Spring - Internal pilot

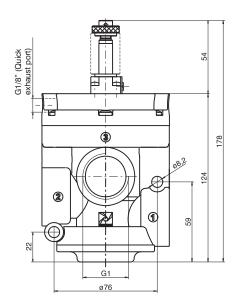
Operational characteristics		
Fluid	Vacuum	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	

Coding: T771/V.32.0. . .M		71/V.32.0. ⊕ .MV	
FUNCTION			
a	1AC	=	Normally Closed

Normally Open







For vacuum - N.O. Exhaust port 3 Outlet port 2 Pump 1



For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3

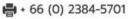
Weight 520 g







C+66 (0) 2384-6060

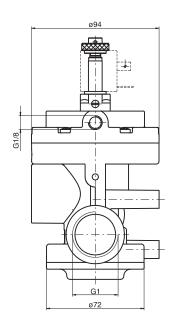


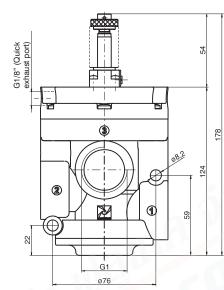


Solenoid-Spring - External pilot

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	







For vacuum - N.O. Pump 3 Outlet port 2 Outlet port 1



T771/V.32.0.1.MP

Coding:

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

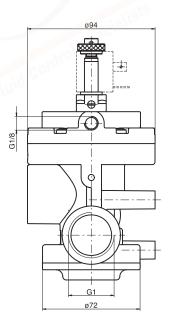


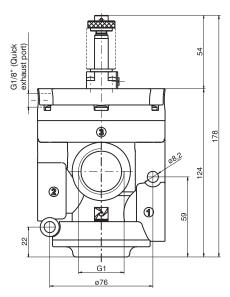
Weight 520 g

Solenoid - Spring - External pilot with quick exhaust

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot porte size	G1/8"	







T771/VS.32.0.1.MP

For vacuum - N.O. Pump 3 Outlet port 2 Outlet port 1



For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3







m I"

T771.32.0.1.BP

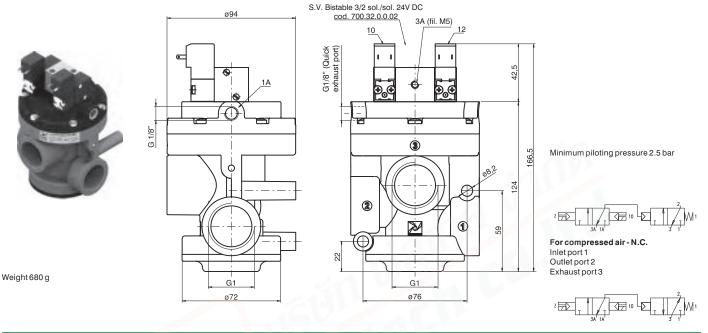
T771S.32.0.1.BP

Coding:

Coding:

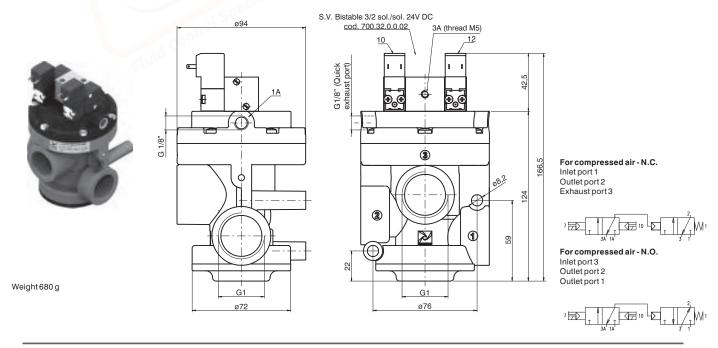
Bistable for compressed air - G1"

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	



Bistable for compressed air with quick exhaust - G1"

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2.5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	



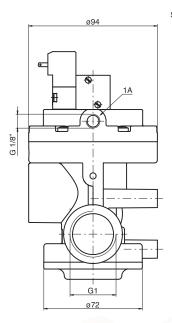
Weight 680 g

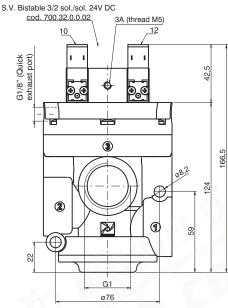


Bistable for vacuum - G1"

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	







Minimum piloting pressure 2.5 bar

T771/V.32.0.1.BP

Coding:



For vacuum - N.C. Pump 1 Outlet port 2 Exhaust port 3



T771/VS.32.0.1.BP



Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot porte sizo	G1/9"	

