Valves and solenoid valves poppet system Series T771

The series of valves and solenoid valves poppet system G1" complete the range of technopolymer valves T700 series.

Even for this version, the main feature is the high-resistance thermoplastic material from which the components are moulded.This made it possible to obtain an aesthetically pleasing product with a considerably reduced weight compared to the standard version, and, most importantly, a cost optimization.
As for the versions of 1/2" and 3/4" there were also technical and functional changes made, starting with the use of a rolling diaphragm in place of the traditional piston, thus eliminating friction and wear on the seal.
With the exception of the normally open (N.O.) self feeding vacuum version. In this case an additional seal is provided on the piston which isolates the diaphragm connection 3, which improves the functionality of the valve.

For the versions with microsolenoids that are internally or externally supplied, a quick discharge system is available, incorporated in the operator, which reduces the valve's repositioning response times by a further 80%. The MP version of the solenoid actuator requires an external vacuum supply. The MV version uses a self feeding vacuum. Double versions are also available, equipped with a solenoid valve 3/2 Solenoid-Solenoid complete with 15mm 24V DC microactuators (code N331.0A).

Construction characteristics

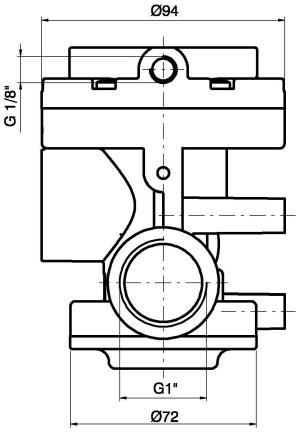
Body, operator and end cover	High resistance technopolymer
Seals and poppets	Oil resistant rubber (NBR)
Piston and shaft	Acetal resin
Springs	AISI 303 stainless steel
Diaphragm	Oil resistant rubber (NBR)

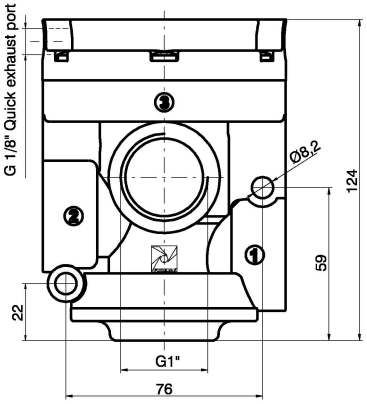
Use and maintenance

These valves and solenoid valves have an average service life of approximately 10 - 15 million cycles under optimum conditions of usage. They do not need to be lubricated to operate well, but good filtration is recommended to prevent dirt accumulation inside. Ensure that the conditions of use are consistent with the indicated limits, pressure, temperature, etc. Take care to protect the discharge outlets of the valves in the presence of dirt and powder. When the self feeding version is used in the solenoid valves, check that the supply flow rate is greater than or equal to that of use, otherwise switch to the version with external pilot. The ordering codes refer to solenoid valves with “MP” or “MV” mechanicals mounted. The solenoid coils are not included and have to be ordered separately (see General Catalogue, Series 300, Section 1) with the exception of the bistable versions which already have solenoid coils 24V DC (N331.0A). Certified solenoid coils are also available c UL us (see Series 300).

Series T771

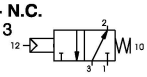
Pneumatic-Spring



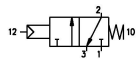


Ordering code
T771/V.32.11.1

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



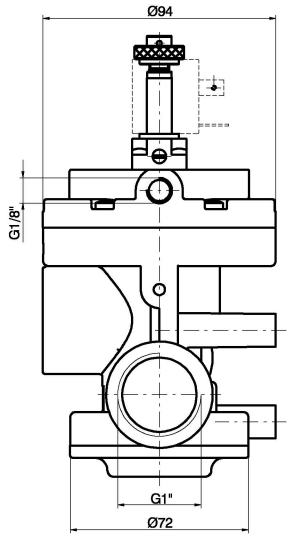
For vacuum - N.O.
Exhaust: Port 1
Outlet: Port 2
Pump: Port 3

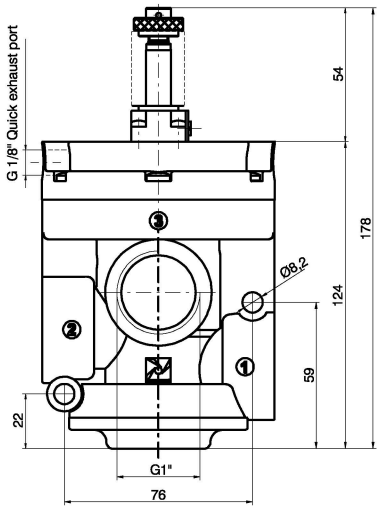


Weight 480 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working port size	G 1"
Pilot port size	G 1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 55 - N.O. = 19
Response time according to ISO 12238 de-energised (ms)	N.C. = 320 - N.O. = 450

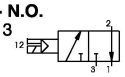
Solenoid-Spring-Self feeding



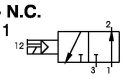


Ordering code	
T771/V.32.0.Ⓕ.MV	
Ⓕ	FUNCTION
	1AC=Normally Closed
	1AA=Normally Open

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



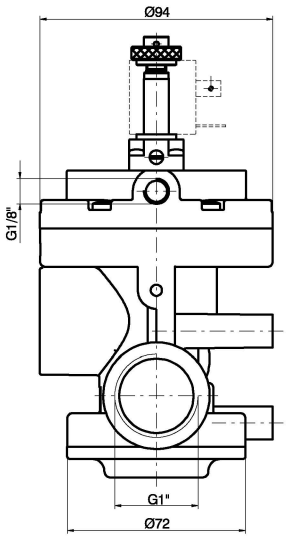
For vacuum - N.C.
Exhaust: Port 1
Outlet: Port 2
Pump: Port 3

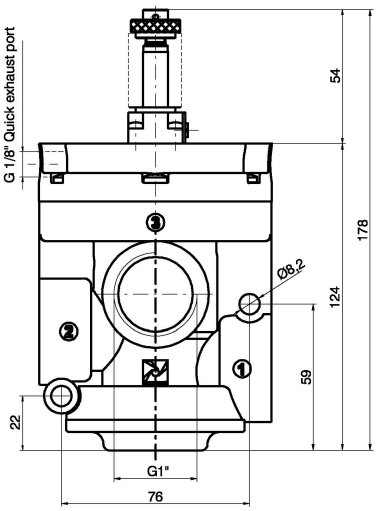


Weight 520 g

Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working port size	G 1"
Pilot port size	G 1/8"
Response time according to ISO 12238 energised (ms)	1AC = 100 - 1AA = 80
Response time according to ISO 12238 de-energised (ms)	1AC = 60 - 1AA = 60

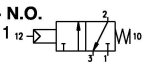
Solenoid-Spring-External feeding



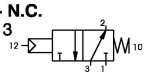


Ordering code
T771/V.32.0.1.MP

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



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



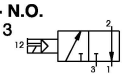
Weight 520 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working port size	G 1"
Pilot port size	G 1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 50 - N.O. = 19
Response time according to ISO 12238 de-energised (ms)	N.C. = 315 - N.O. = 450

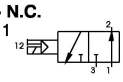
Solenoid-Spring-External feeding with quick exhaust

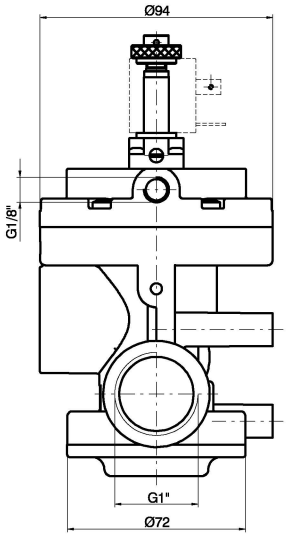
Ordering code
T771/VS.32.0.1.MP

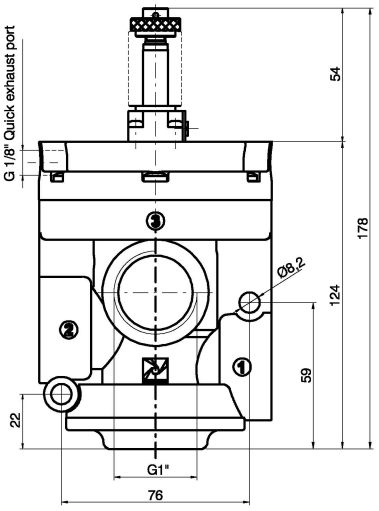
For vacuum - N.O.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



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



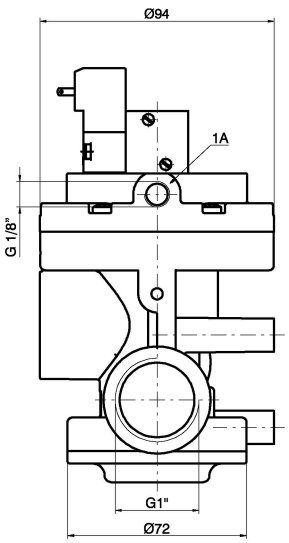


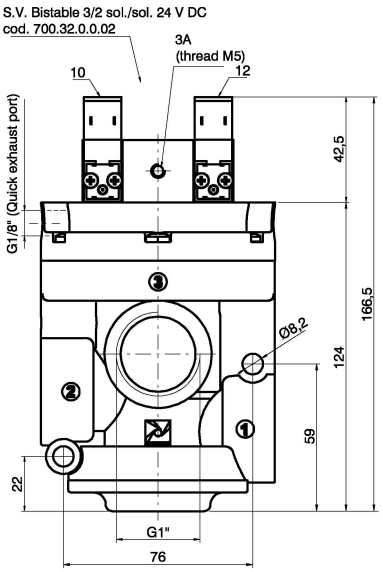


Weight 520 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working port size	G 1"
Pilot port size	G 1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 50 - N.O. = 19
Response time according to ISO 12238 de-energised (ms)	N.C. = 50 - N.O. = 70

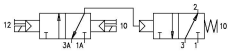
Bistable version for vacuum G1”



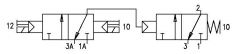


Ordering code
T771/V.32.0.1.BP

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



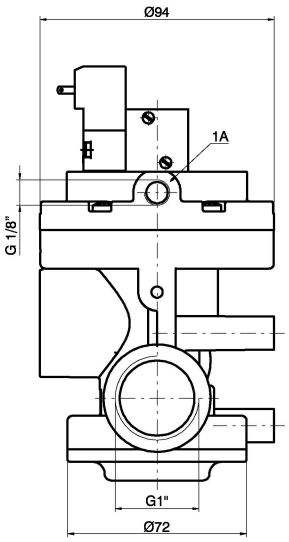
For vacuum - N.O.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1

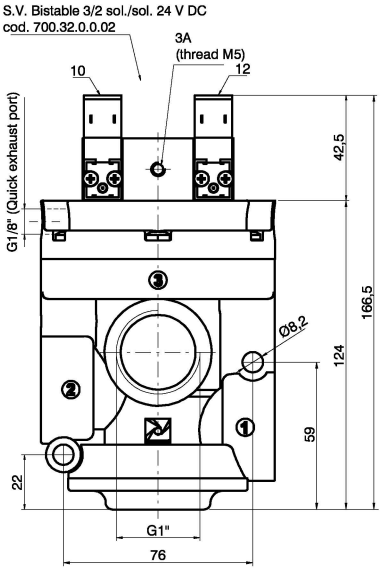


Weight 680 g

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

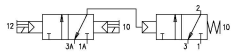
Bistable version for vacuum G1” with exhaust



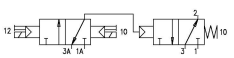


Ordering code
T771/VS.32.0.1.BP

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



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



Weight 680 g

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