

**General**

This new range of G1/2" and G3/4" pilot and solenoid operated poppet valves represents an evolution of the current popular Zama series. The main feature of this new series is the high impact resistant thermoplastic used to mould the valve components.

The use of this material results in a versatile, lightweight and economical valve. The new 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. The new 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 60%. 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.

Coils **CAUS** homologated are also available. (series 300).

**Construction characteristics**

body, operator and end cover	High resistance technopolymer
seals and poppets	oil resistant rubber (NBR)
piston and shaft	acetylic resin
springs	AISI 302 stainless steel
diaphragm	oil resistant rubber coated (NBR)

**Use and maintenance**

Under correct working conditions the average life of this series of valves is 10 15 million cycles. Lubrication is not required but correct air filtration is recommended.

It is also important to ensure that the application parameters are in line with those indicated in the technical specification of this product: pressure, temperature....

The valves, thanks to their construction design, do not require maintenance involving replacement of parts; when necessary it is possible to carefully clean and remove any dirt that might have accumulated internally.

**Air valve port layout:**

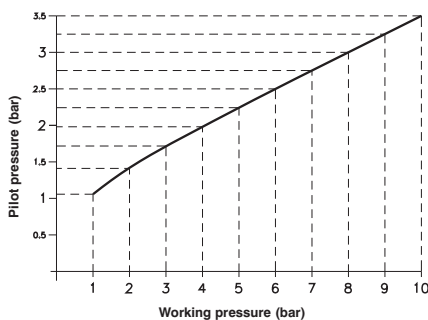
- Normally closed: 1 = LINE IN  
2 = CONSUMPTION  
3 = EXHAUST
- Normally open: 1 = EXHAUST  
2 = CONSUMPTION  
3 = LINE IN

**Vacuum valve port layout:**

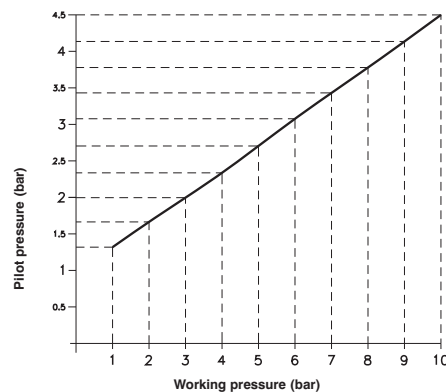
- Normally closed internal pilot 1 = EXHAUST
- Normally open (servoassisted) external pilot 2 = CONSUMPTION  
3 = PUMP
- Normally open internal pilot 1 = PUMP
- Normally closed (servoassisted) external pilot 2 = CONSUMPTION  
3 = EXHAUST

**MINIMUM WORKING PRESSURE DIAGRAM  
PNEUMATIC/SPRING AND EXTERNAL SOLENOID PILOT VERSION**

NORMALLY CLOSED VALVE



NORMALLY OPEN VALVE



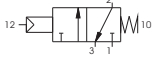
3/2

**Valve  
Pneumatic spring**

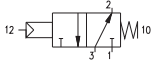
Ordering code

**T772.32.11.1**

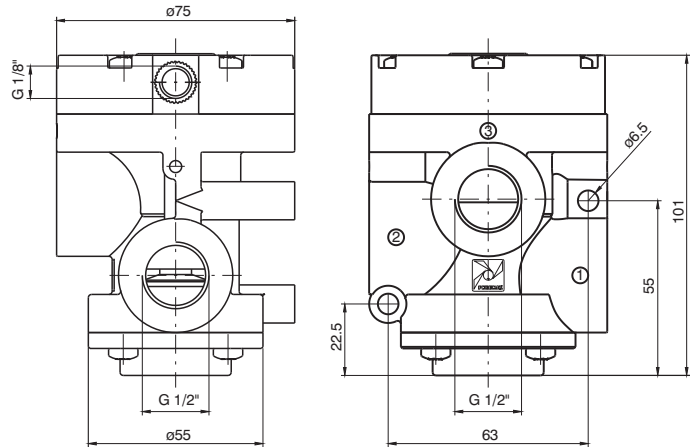
Normally closed



Normally open



Weight gr. 350



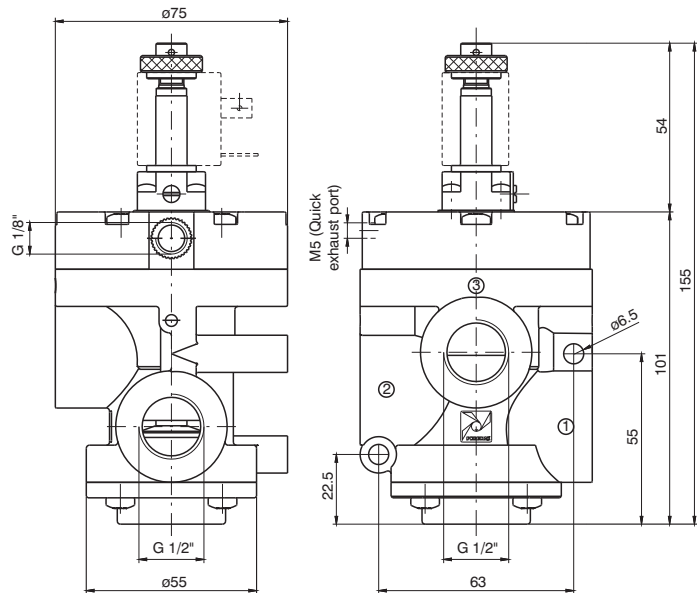
Minimum working pressure: see diagram at General page

3/2

**Solenoid valve  
Solenoid spring**



Weight gr. 390



Ordering code

Internal pilot	Servoassisted external pilot	Internal pilot with quick exhaust	Servoassisted external pilot with quick exhaust
<p><b>T772.32.0.1AC.MP</b> Normally closed</p>	<p><b>T772.32.0.1.MP</b> Normally closed</p>	<p><b>T772S.32.0.1AC.MP</b> Normally closed</p>	<p><b>T772S.32.0.1.MP</b> Normally closed</p>
<p><b>T772.32.0.1AA.MP</b> Normally open</p>	<p><b>T772.32.0.1.MP</b> Normally open</p>	<p><b>T772S.32.0.1AA.MP</b> Normally open</p>	<p><b>T772S.32.0.1.MP</b> Normally open</p>
<p>Minimum working pressure: 2.5 bar</p>	<p>Minimum working pressure: see diagram at General page</p>	<p>Minimum working pressure: 2.5 bar</p>	<p>Minimum working pressure: see diagram at General page</p>

Operational characteristics	Fluid	Max working pressure	Operating temperature		Flow rate at 6 bar with Δp = 1 bar	Orifice size	Working port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	min. -5° C	max. +50°C	4100 NI/min	mm 15	G 1/2"	G 1/8"



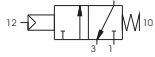
3/2

**Valve**  
**Pneumatic spring**

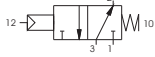
Ordering code

**T772/V.32.11.1**

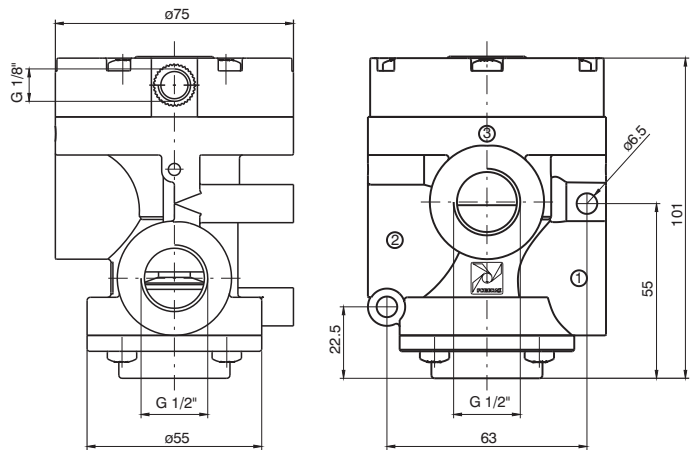
*Normally open*



*Normally closed*



Weight gr. 350



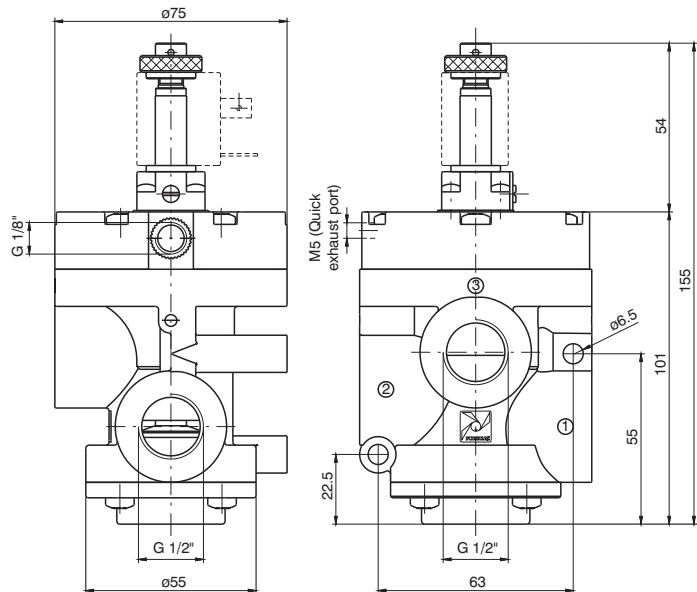
Minimum working pressure: 2,5 bar

**Solenoid valve**  
**Solenoid spring**

3/2



Weight gr. 390



Ordering code

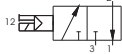
*Internal pilot*

*Servoassisted external pilot*

*Servoassisted external pilot  
with quick exhaust*

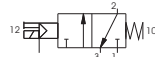
**T772/V.32.0.1AA.MV**

*Normally open*



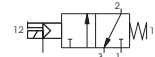
**T772/V.32.0.1.MP**

*Normally open*



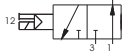
**T772/VS.32.0.1.MP**

*Normally open*

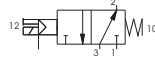


**T772/V.32.0.1AC.MV**

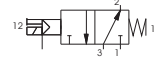
*Normally closed*



*Normally closed*



*Normally closed*



Minimum working pressure: 2.5 bar

Operational characteristics	Fluid	Operating temperature		Orifice Size	Working port size	Pilot ports size
	Vacuum	min.	max.			
		-5°C	+50°C	mm 15	G 1/2"	G 1/8"



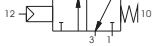
3/2

**Valve  
Pneumatic spring**

Ordering code

**T773.32.11.1**

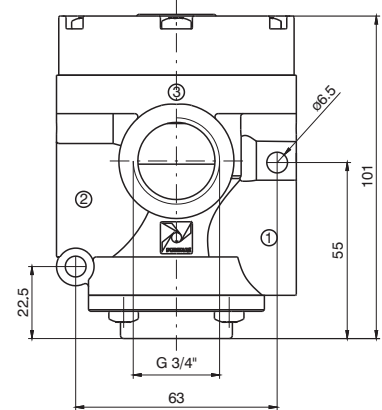
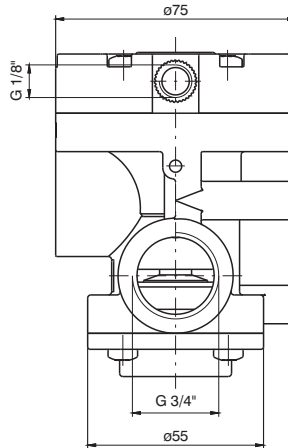
*Normally closed*



*Normally open*



Weight gr. 330



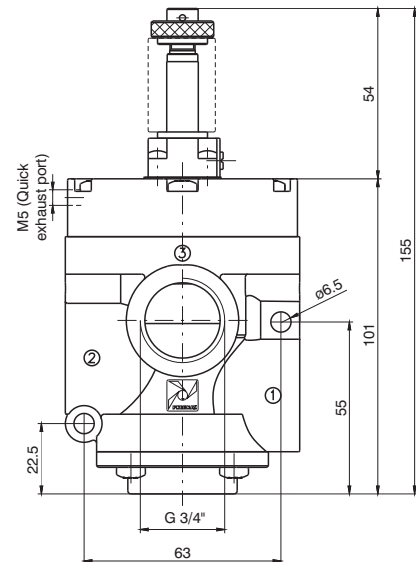
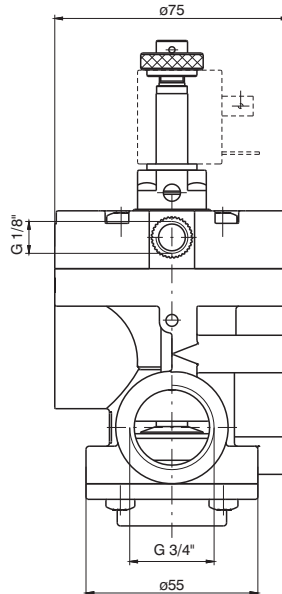
Minimum working pressure: see diagram at General page

3/2

**Solenoid valve  
Solenoid spring**



Weight gr. 370



Ordering code

Internal pilot	Servoassisted external pilot	Internal pilot with quick exhaust	Servoassisted external pilot with quick exhaust
<p><b>T773.32.0.1AC.MP</b> <i>Normally closed</i></p>	<p><b>T773.32.0.1.MP</b> <i>Normally closed</i></p>	<p><b>T773S.32.0.1AC.MP</b> <i>Normally closed</i></p>	<p><b>T773S.32.0.1.MP</b> <i>Normally closed</i></p>
<p><b>T773.32.0.1AA.MP</b> <i>Normally open</i></p>	<p><i>Normally open</i></p>	<p><b>T773S.32.0.1AA.MP</b> <i>Normally open</i></p>	<p><i>Normally open</i></p>
<p>Minimum working pressure: 2.5 bar</p>	<p>Minimum working pressure: see diagram at General page</p>	<p>Minimum working pressure: 2.5 bar</p>	<p>Minimum working pressure: see diagram at General page</p>

Operational characteristics	Fluid	Max working pressure	Operating temperature		Flow rate at 6 bar with Δp = 1 bar	Orifice size	Working port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	min. -5° C	max. +50°C	6400 NI/min	mm 20	G 3/4"	G 1/8"

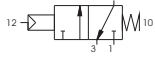
**Valve  
Pneumatic spring**

3/2

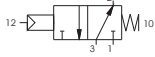
Ordering code

**T773/V.32.11.1**

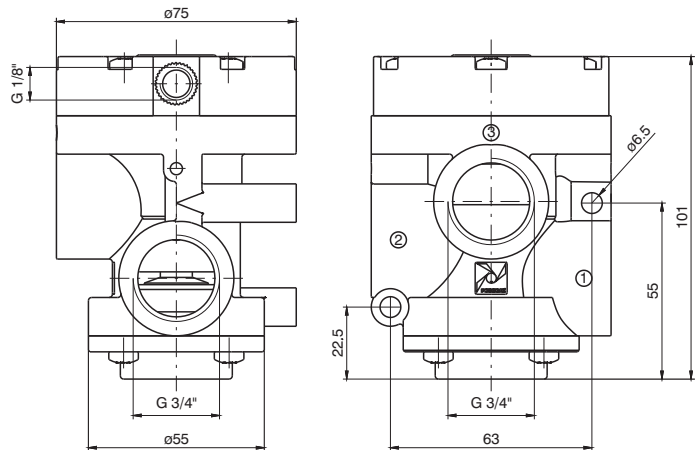
*Normally open*



*Normally closed*



Weight gr. 330



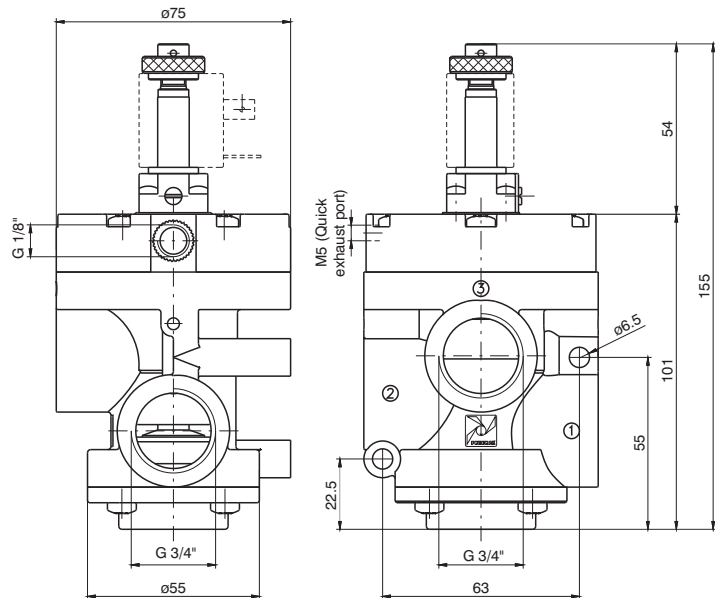
Minimum working pressure: 2,5 bar

**Solenoid valve  
Solenoid spring**

3/2



Weight gr. 370



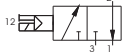
Ordering code

*Internal pilot*

*Servoassisted external pilot*

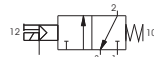
*Servoassisted external pilot  
with quick exhaust*

**T773/V.32.0.1AA.MV**  
*Normally open*



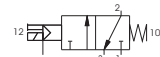
**T773/V.32.0.1.MP**

*Normally open*

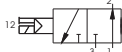


**T773/VS.32.0.1.MP**

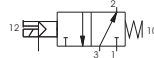
*Normally open*



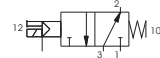
**T773/V.32.0.1AC.MV**  
*Normally closed*



*Normally closed*



*Normally closed*

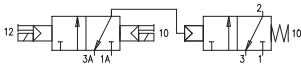
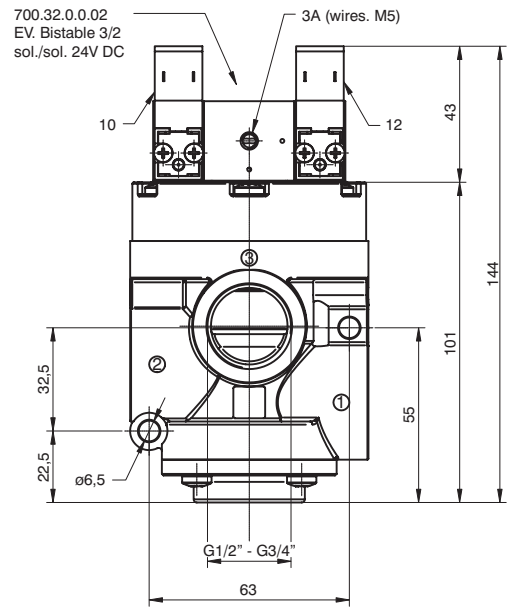
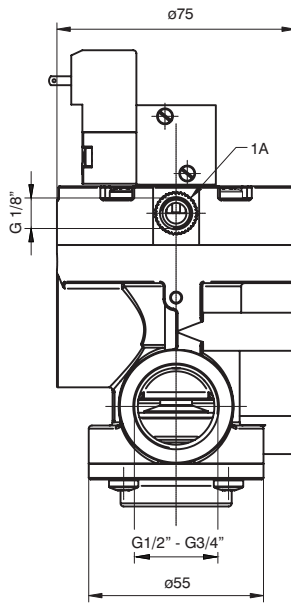


Minimum working pressure: 2.5 bar

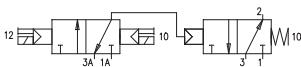
Operational characteristics	Fluid	Operating temperature		Orifice Size	Working port size	Pilot ports size
	Vacuum	min.	max.			
		-5°C	+50°C	mm 20	G 3/4"	G 1/8"

Bistable version for Compressed air

3/2



**Air - N.C.**  
 1 = line in  
 2 = consumption  
 1 = exhaust



**Air - N.O.**  
 3 = line in  
 2 = consumption  
 1 = exhaust

Weight gr. 550

Ordering code

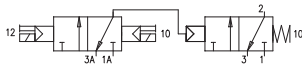
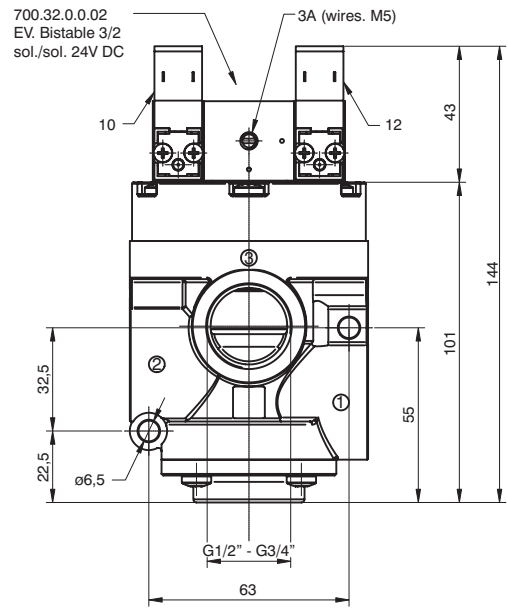
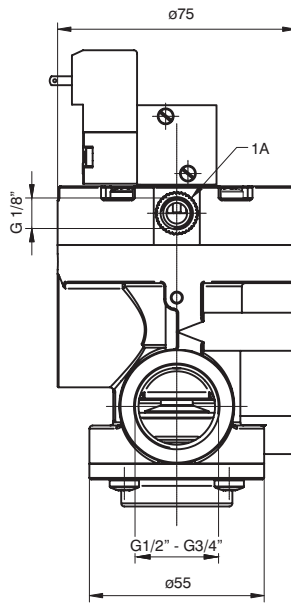
G 1/2"	G 3/4"	G 1/2" with quick exhaust	G 3/4" with quick exhaust
<b>T772.32.0.1BP</b> Normally closed Normally open	<b>T773.32.0.1.BP</b> Normally closed Normally open	<b>T772S.32.0.1.BP</b> Normally closed Normally open	<b>T773S.32.0.1.BP</b> Normally closed Normally open

Operational characteristics	Fluid	Max working pressure	Min. Pilot pressure	Temperature		Flow rate at 6 bar with $\Delta p = 1$ bar	Orifice Size	Working port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	2 bar	min. -5° C	max. +50° C	G1/2": 4100 NI/min G3/4": 6400 NI/min	mm 15	G 1/2" G 3/4"	G 1/8"

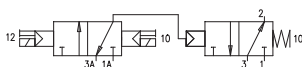


Bistable version for Vacuum

3/2



**Vacuum - N.O.**  
3 = pump  
2 = consumption  
1 = exhaust



**Vacuum - N.C.**  
1 = pump  
2 = consumption  
3 = exhaust

Weight gr. 550

Ordering code

G 1/2"	G 3/4"	G 1/2" with quick exhaust	G 3/4" with quick exhaust
<b>T772/V.32.0.1.BP</b> Normally closed Normally open	<b>T773/V.32.0.1.BP</b> Normally closed Normally open	<b>T772/VS.32.0.1.BP</b> Normally closed Normally open	<b>T773/VS.32.0.1.BP</b> Normally closed Normally open

Operational characteristics	Fluid	Min. Pilot pressure	Temperature		Orifice Size	Working port size	Pilot ports size
	Vacuum	2,5 bar	min.	max.			
			-5° C	+50°C	mm 15	G 1/2" G 3/4"	G 1/8"

