



General details

The new series of valves and solenoid valves with shutter G1/2" and G3/4" is a new version of the already-tested zamak version. The main feature of this version 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 reduction in price. There are also changes of a technical and functional nature, however, starting with the use of a rolling diaphragm in place of the traditional piston, thus eliminating friction and wear on the seal.

For versions with microsolenoid and internal or external supply, there is a fast discharge system incorporated in the operator, which reduces the response time for repositioning the valve by 60%. The mechanisms of the actuation solenoid valve are the MP with external supply and MV for self-supplied versions (they differ from the M2 and M2/V, used on zamak valves, for self-tapping fixation screws in plastic).

There are also double versions either for air or for vacuum on which, in place of the standard actuation mechanisms, there is a solenoid valve 3/2 Solenoid-Solenoid complete with 15mm 24V DC microactuators (code N331.0A).

The ordering codes correspond to the solenoid valves with mechanisms that are "MP" or "MV" mounted. The windings are not included and have to be ordered separately (see summary page for electric windings) with the exception of the dual versions which already have windings 24V DC (N331.0A).

Certified windings are also available **UL US**

Construction features

Body, operator and bottom	High resistance thermoplastic material
Seals and shutters	Nitrile rubber (NBR), oilproof
Piston and guide pin	Acetal resin
Springs	Stainless steel AISI 302
Diaphragm	Rubberised fabric in nitrile (NBR) compound, oilproof

Wear 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. For these products, due to the manner in which they are constructed and the particular use for which they are intended, maintenance by replacing valve parts does not have to be carried out. When necessary, basic internal cleaning can be performed, carefully removing any dirt accumulations. When the self-supply version is used in the solenoid valves, take care that the use is never, as air flow, the same as the supply, because in this case there would not be sufficient vacuum for actuation.

This is normally found on shutter valves since they do not have the closed centres position and insufficient actuation could cause the system to discharge from outlet 3. In this case switch to the version with external actuation.

Connections of valves

Normally closed Self-supplied	1 = DISCHARGE
Normally open External supply	2 = USE
	3 = PUMP
Normally open Self-supplied	1 = PUMP
Normally closed External supply	2 = USE
	3 = DISCHARGE

"The response time of the directional control valves or the moving parts of logic devices was measured in accordance with the standard ISO 12238:2001"

Response time (ms)

Code	Type	Response time (ms)	
		energised	de-energised
T772/V.32.11.1	N.C.	50	150
T772/V.32.11.1	N.O.	27	195
T772/V.32.0.1.MP	N.C.	42	135
T772/V.32.0.1.MP	N.O.	22	175
T772/VS.32.0.1.MP	N.C.	43	37
T772/VS.32.0.1.MP	N.O.	25	42
T772/V.32.0.1AA.MV	N.C.	55	30
T772/V.32.0.1AA.MV	N.O.	33	38

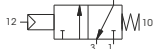
Code	Type	Response time (ms)	
		energised	de-energised
T773/V.32.11.1	N.C.	28	190
T773/V.32.11.1	N.O.	50	150
T773/V.32.0.1.MP	N.C.	25	175
T773/V.32.0.1.MP	N.O.	40	145
T773/VS.32.0.1.MP	N.C.	25	40
T773/VS.32.0.1.MP	N.O.	42	38
T773/V.32.0.1AA.MV	N.C.	35	30
T773/V.32.0.1AA.MV	N.O.	32	80

Pneumatic spring valve

Ordering code

T772/V.32.11.1

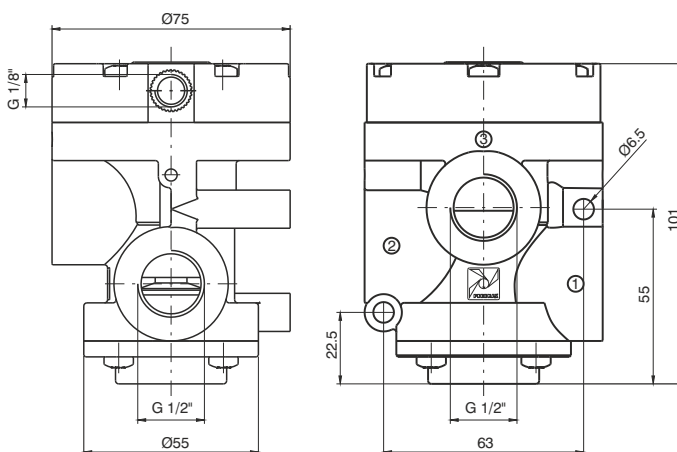
Normally open



Normally closed



Weight 350 gr.

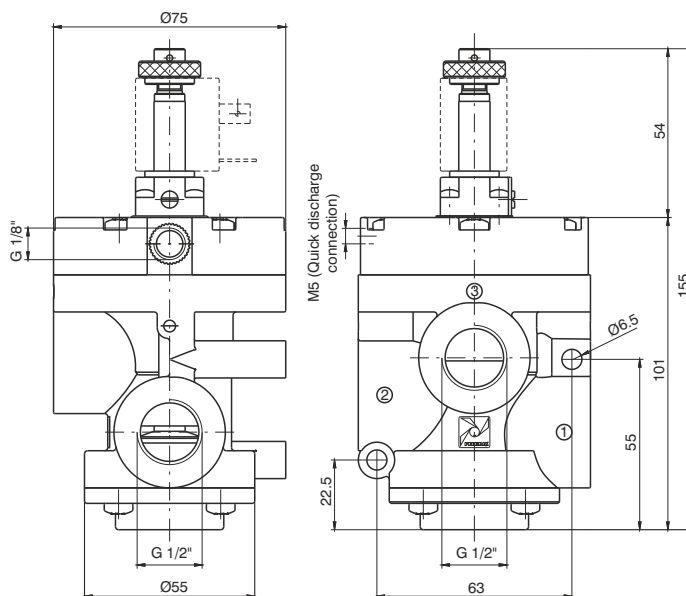


Minimum actuation pressure: 2,5 bar

Spring Solenoid valve



Weight 390 gr.



Ordering code

Self-supplied	External supply	External supply with quick discharge
<p>T772/V.32.0.1AA.MV <i>Normally open</i></p>	<p>T772/V.32.0.1.MP</p> <p><i>Normally open</i></p>	<p>T772/VS.32.0.1.MP</p> <p><i>Normally open</i></p>
<p>T772/V.32.0.1AC.MV <i>Normally closed</i></p>	<p><i>Normally closed</i></p>	<p><i>Normally closed</i></p>

Minimum actuation pressure: 2,5 bar

Performance characteristics	Fluid	Temperature °C	Nominal flow passage diameter (mm)	Supply connection	Actuation connection	Flow rate (l/min)	Degree of Vacuum (-kPa)
	Vacuum		-5 ÷ +50	15	G1/2"	G1/8"	334

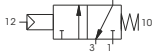
Pneumatic spring valve

3/2

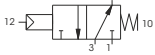
Ordering code

T773/V.32.11.1

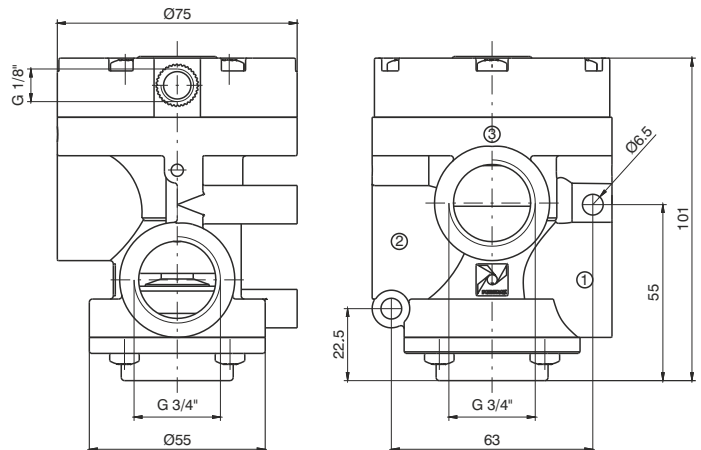
Normally open



Normally closed



Weight 330 gr.



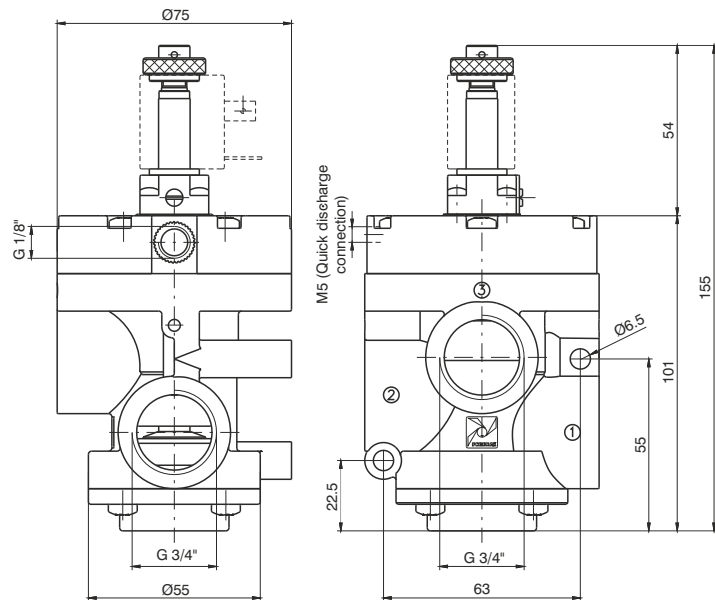
Minimum actuation pressure: 2,5 bar

Spring Solenoid valve

3/2



Weight 370 gr.



Ordering code

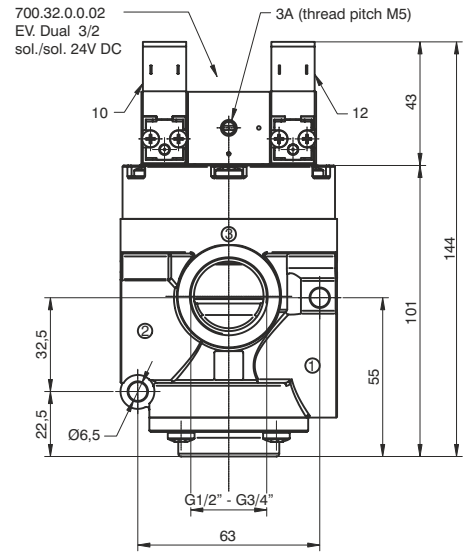
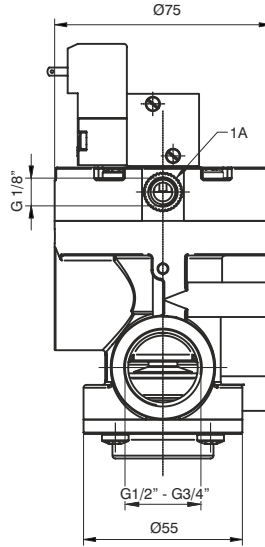
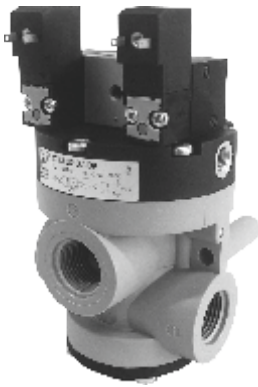
Self-supplied	External supply	External supply with quick discharge
<p>T773/V.32.0.1AA.MV <i>Normally open</i></p> <p>T773/V.32.0.1AC.MV <i>Normally closed</i></p>	<p>T773/V.32.0.1.MP</p> <p><i>Normally open</i></p> <p><i>Normally closed</i></p>	<p>T773/VS.32.0.1.MP</p> <p><i>Normally open</i></p> <p><i>Normally closed</i></p>

Minimum actuation pressure: 2,5 bar

Performance characteristics	Fluid	Temperature °C	Nominal flow passage diameter (mm)	Supply connection	Actuation connection	Flow rate (l/min)	Degree of Vacuum (-kPa)
	Vacuum	-5 ÷ +50	20	G3/4"	G1/8"	667	0 ÷ 101

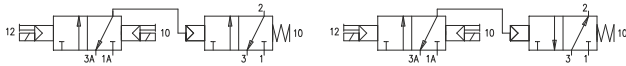
Bistable version

3/2



N.O.
Pump in 3
Use in 2
Discharge in 1

N.C.
Pump in 1
Use in 2
Discharge in 3



Weight 550 gr.

Ordering code

		G 1/2"		G 3/4"		G 1/2" (with quick discharge)		G 3/4" (with quick discharge)			
		T772/V.32.0.1BP <i>Normally closed</i> <i>Normally open</i>		T773/V.32.0.1BP <i>Normally closed</i> <i>Normally open</i>		T772/VS.32.0.1BP <i>Normally closed</i> <i>Normally open</i>		T773/VS.32.0.1BP <i>Normally closed</i> <i>Normally open</i>			
Performance characteristics	Fluid	Min. actuation pressure (bar)	Temperature °C	Nominal flow passage diameter (mm)		Supply connection	Actuation connection	Flow rate (l/min)		Degree of Vacuum(-kPa)	
		Vacuum	2,5	-5 ÷ +50	15	20	G1/2" - G3/4"	G1/8"	167	334	0 ÷ 101

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