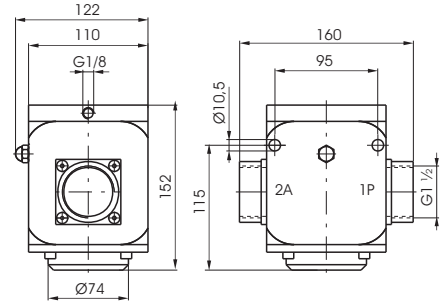
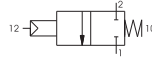


Pneumatic - Spring

Ordering code
776/V.22.11.1C



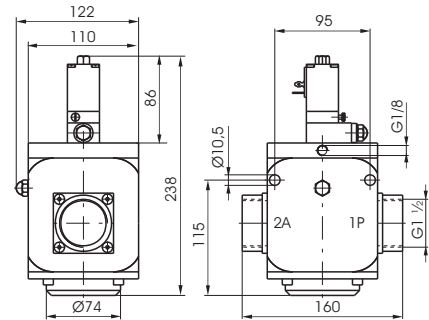
Weight gr. 3950
Normally Closed
Minimum piloting pressure 2 bar



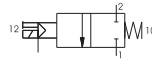
Operational characteristic	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
		Vacuum	-5 - +70	38	G1 1/2"

Solenoid - Spring

Ordering code
776/V.22.0.1C.S
S SOLENOID CODE
See Valves Series 300 Type "S"



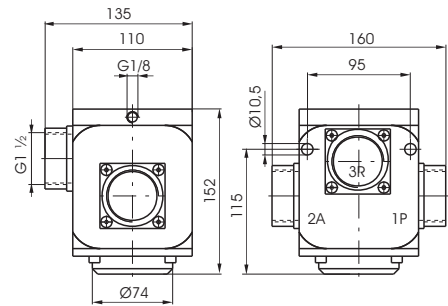
Weight gr. 4450
External Pilot Normally Closed
Minimum piloting pressure 2 bar



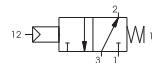
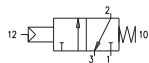
Operational characteristic	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
		Vacuum	-5 - +50	38	G1 1/2"

Pneumatic - Spring

Ordering code
776/V.32.11.F
F FUNCTION
1C=Normally Closed
1A=Normally Open



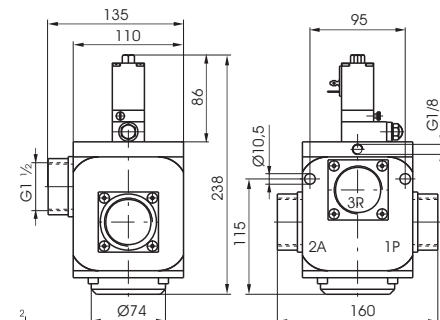
Weight gr. 3900
Minimum piloting pressure 2 bar



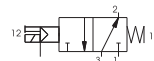
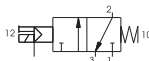
Operational characteristic	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
		Vacuum	-5 - +70	38	G1 1/2"

Solenoid - Spring

Ordering code
776/V.32.0.F.S
F FUNCTION
1C=External Pilot Normally Closed
1A=External Pilot Normally Open
S SOLENOID CODE
See Valves Series 300 Type "S"



Weight gr. 4500
Minimum piloting pressure 2 bar



Operational characteristic	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
		Vacuum	-5 - +50	38	G1 1/2"



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 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).

Coils **CALUS** homologated are also available. (see series 300).

Construction characteristics

Body, operator and end cover	High resistance technopolymer
Seals and poppets	Oil resistant rubber (NBR)
Piston and shaft	Acetal resin
Springs	AISI 302 stainless steel
Diaphragm	Oil resistant rubber coated (NBR)

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.

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, inlet flow rate must be equal or higher that the required consumption flow rate, otherwise is better choose the external pilot version.

Air valve port layout:

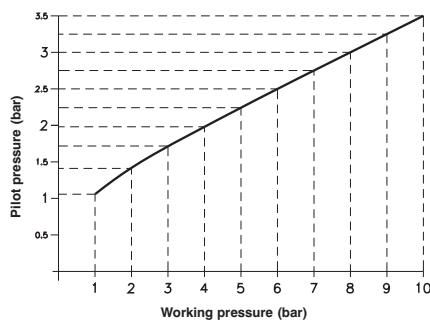
- Normally closed: 1 = LINE IN
2 = CONSUMPTION
3 = EXHAUST
- Normally open: 1 = EXHAUST
2 = CONSUMPTION
3 = LINE IN

Vacuum valve port layout:

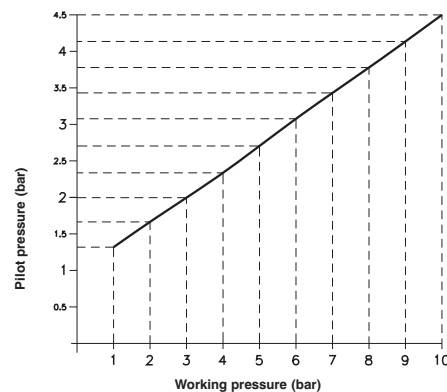
- Normally closed internal pilot 1 = EXHAUST
Normally open (servoassisted) external pilot 2 = CONSUMPTION
3 = PUMP
- Normally open internal pilot 1 = PUMP
Normally closed (servoassisted) external pilot 2 = CONSUMPTION
3 = EXHAUST

**MINIMUM WORKING PRESSURE DIAGRAM (Valves for compressed air)
PNEUMATIC/SRING AND EXTERNAL SOLENOID PILOT VERSION**

NORMALLY CLOSED VALVE



NORMALLY OPEN VALVE

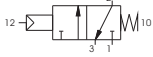


**Valve
Pneumatic spring**

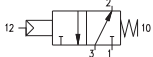
Ordering code

T772.32.11.1

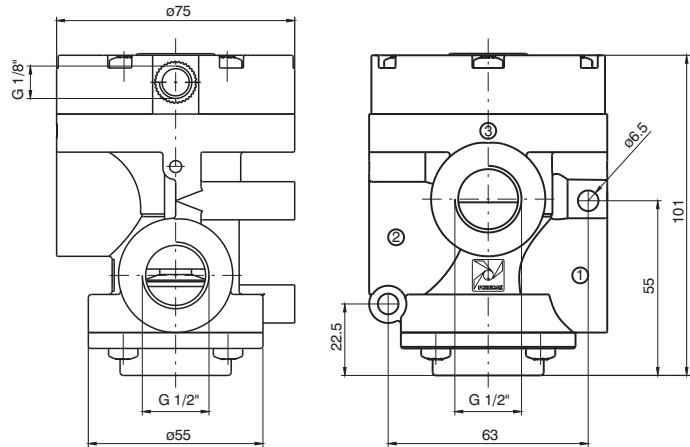
Normally closed



Normally open



Weight gr. 350

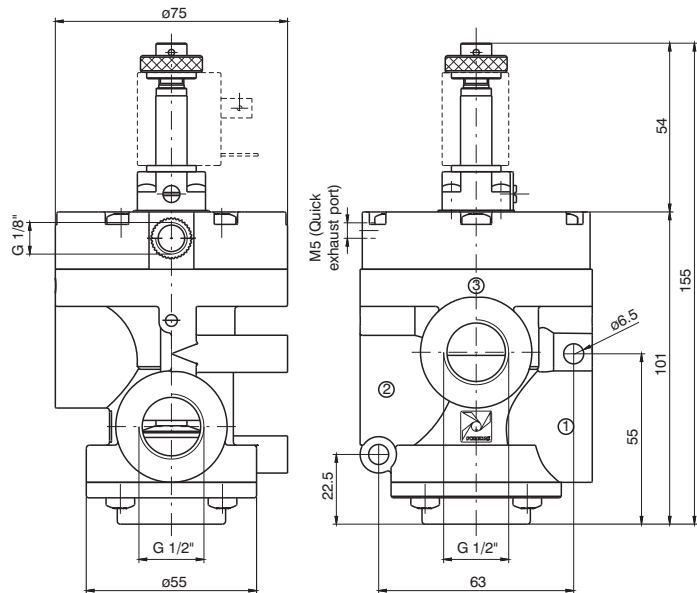


Minimum piloting pressure: see diagram at General page

**Solenoid valve
Solenoid spring**



Weight gr. 390



Ordering code

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

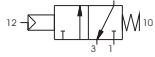
**Valve
Pneumatic spring**

3/2

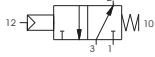
Ordering code

T772/V.32.11.1

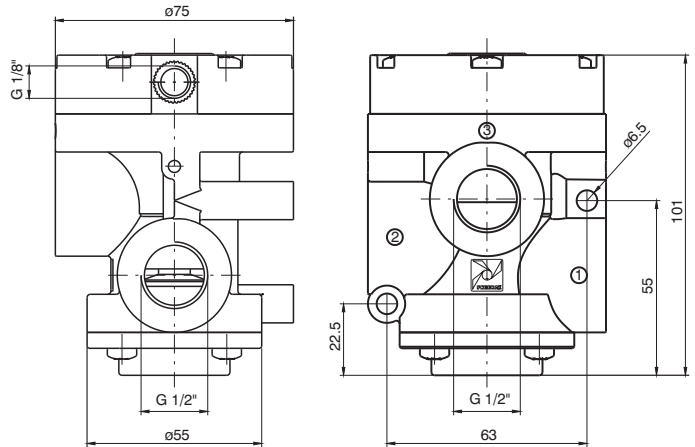
Normally open



Normally closed



Weight gr. 350



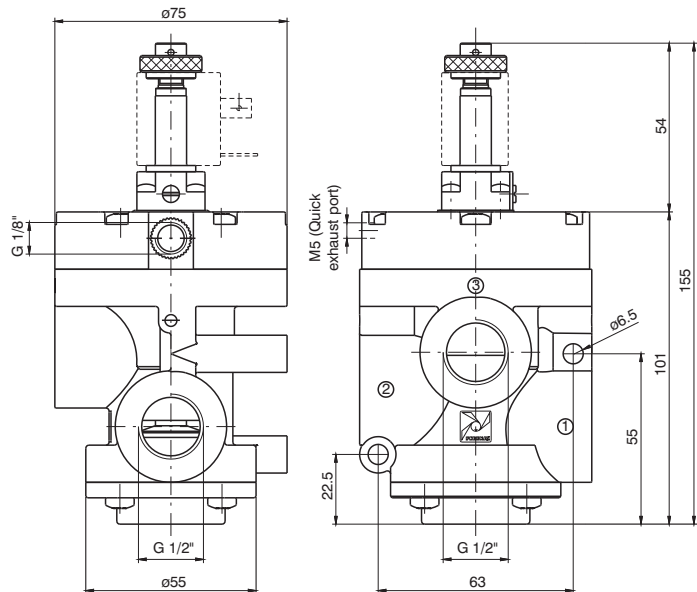
Minimum piloting pressure: 2,5 bar

**Solenoid valve
Solenoid spring**

3/2



Weight gr. 390



Ordering code

<i>Internal pilot</i>	<i>Servoassisted external pilot</i>	<i>Servoassisted external pilot with quick exhaust</i>
<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><i>Normally closed</i></p>	<p>T772/VS.32.0.1.MP</p> <p><i>Normally open</i></p> <p><i>Normally closed</i></p>

Minimum piloting pressure: 2.5 bar

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

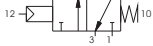
3/2

Valve
Pneumatic spring

Ordering code

T773.32.11.1

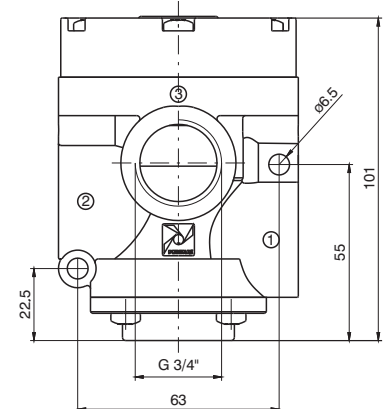
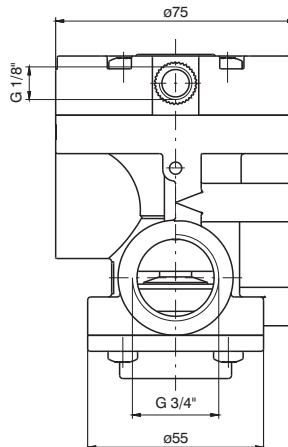
Normally closed



Normally open



Weight gr. 330



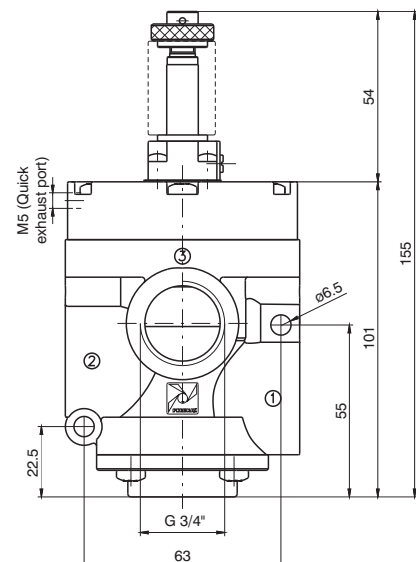
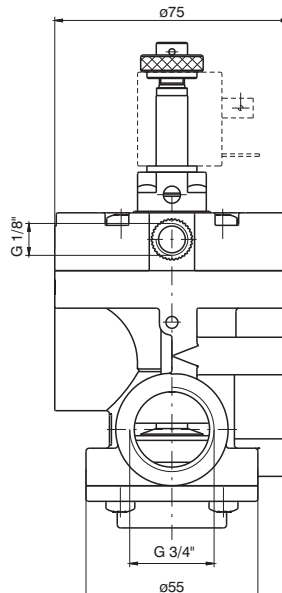
Minimum piloting pressure: see diagram at General page

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>T773.32.0.1AC.MP <i>Normally closed</i></p>	<p>T773.32.0.1.MP <i>Normally closed</i></p>	<p>T773S.32.0.1AC.MP <i>Normally closed</i></p>	<p>T773S.32.0.1.MP <i>Normally closed</i></p>
<p>T773.32.0.1AA.MP <i>Normally open</i></p>	<p><i>Normally open</i></p>	<p>T773S.32.0.1AA.MP <i>Normally open</i></p>	<p><i>Normally open</i></p>
<p>Minimum piloting pressure: 2.5 bar</p>	<p>Minimum piloting pressure: see diagram at General page</p>	<p>Minimum piloting pressure: 2.5 bar</p>	<p>Minimum piloting pressure: see diagram at General page</p>

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

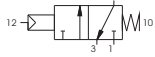
3/2

Valve
Pneumatic spring

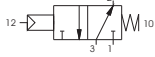
Ordering code

T773/V.32.11.1

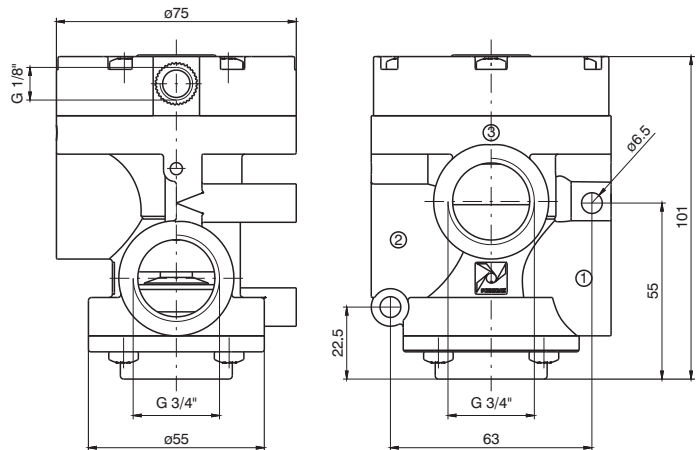
Normally open



Normally closed



Weight gr. 330



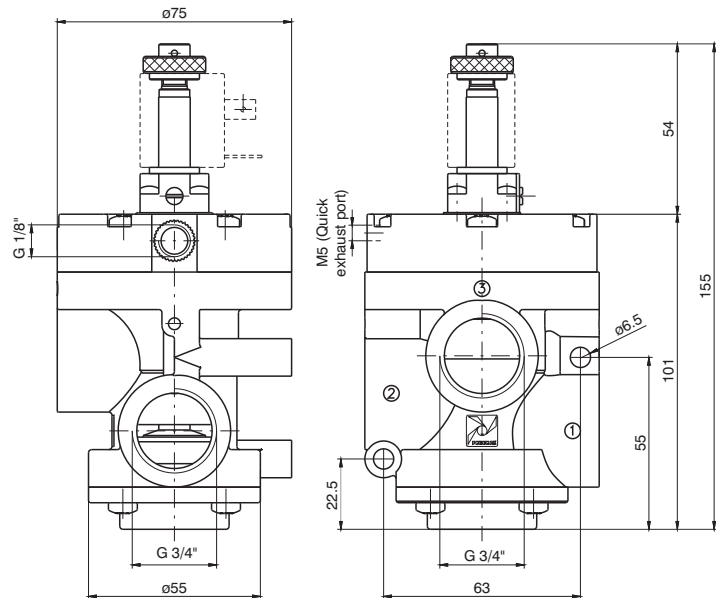
Minimum piloting pressure: 2,5 bar

Solenoid valve
Solenoid spring

3/2



Weight gr. 370



Ordering code

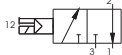
Internal pilot

Servoassisted external pilot

*Servoassisted external pilot
with quick exhaust*

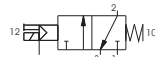
T773/V.32.0.1AA.MV

Normally open



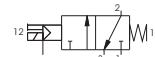
T773/V.32.0.1.MP

Normally open



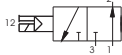
T773/VS.32.0.1.MP

Normally open

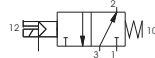


T773/V.32.0.1AC.MV

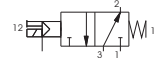
Normally closed



Normally closed



Normally closed

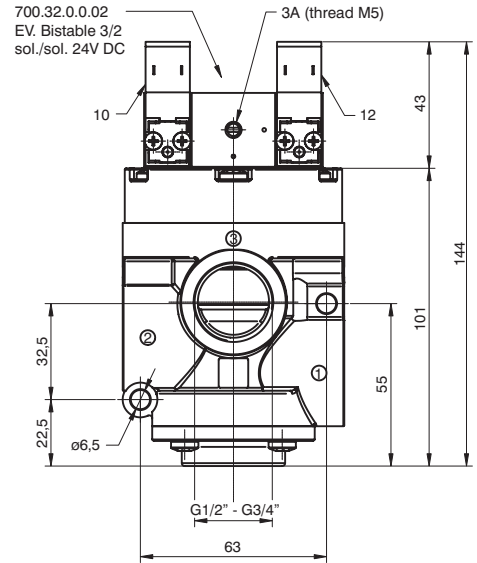
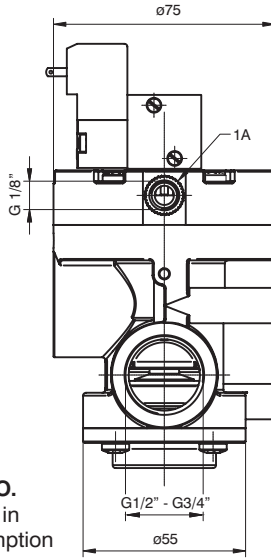


Minimum piloting pressure: 2.5 bar

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

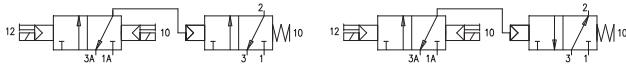
Bistable version for Compressed air

3/2



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

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



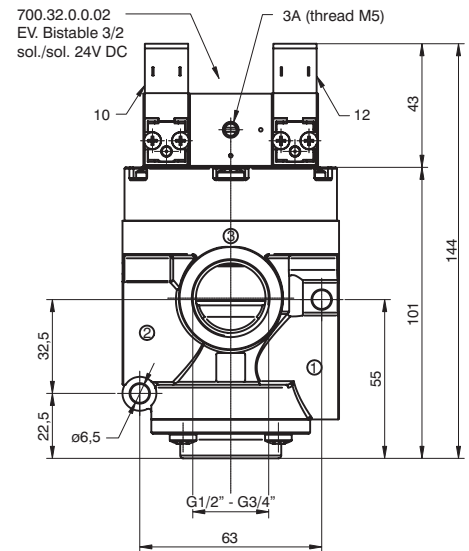
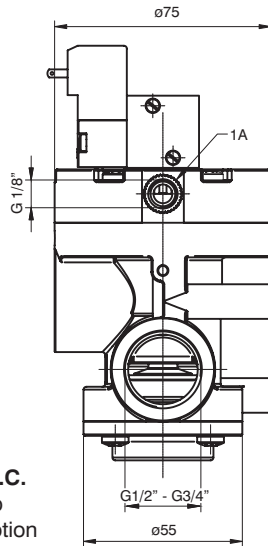
Weight gr. 550

Ordering code

		G 1/2"		G 3/4"		G 1/2" (with quick exhaust)		G 3/4" (with quick exhaust)	
		T772.32.0.1BP Normally closed Normally open		T773.32.0.1BP Normally closed Normally open		T772S.32.0.1BP Normally closed Normally open		T773S.32.0.1BP Normally closed Normally open	
Operational characteristics	Fluid	Max piloting pressure	Min. Pilot pressure	Temperature min. max.		Flow rate at 6 bar with Δp = 1 bar	Orifice Size	piloting port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	2 bar	-5° C	+50° C	G1/2": 4100 NI/min G3/4": 6400 NI/min	mm 15	G 1/2" G 3/4"	G 1/8"

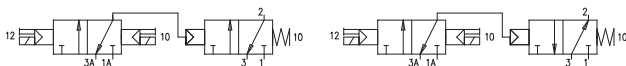
Bistable version for Vacuum

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)	
		T772/V.32.0.1BP Normally closed Normally open		T773/V.32.0.1BP Normally closed Normally open		T772/VS.32.0.1BP Normally closed Normally open		T773/VS.32.0.1BP Normally closed Normally open	
Operational characteristics	Fluid	Min. Pilot pressure	Temperature min. max.		Orifice Size	Inlet port size	Pilot ports size		
	Vacuum	2,5 bar	-5° C	+50° C	mm 15	G 1/2" G 3/4"	G 1/8"		