



**Series T772-773 - for compressed air and vacuum in technopolymer - G1/2" & G3/4"**

**General**

The range of G1/2" and G3/4" pilot and solenoid operated poppet valves are manufactured with high impact resistant thermoplastic. The use of this material results in a versatile, lightweight and economical valve. The traditional piston lip seal has been replaced with a rolling diaphragm, thereby eliminating frictional wear and tear to this seal. The valves (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.

**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).**  
**Coils c**  **US homologated are also available. (See series 300).**

**Construction characteristics**

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

**Use and maintenance**

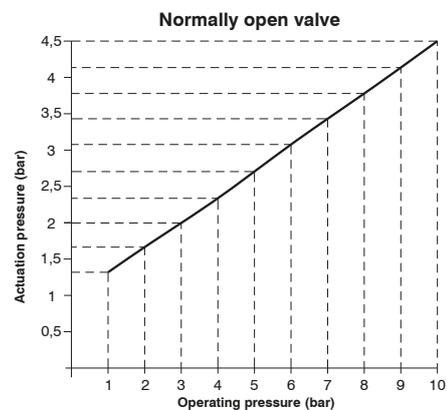
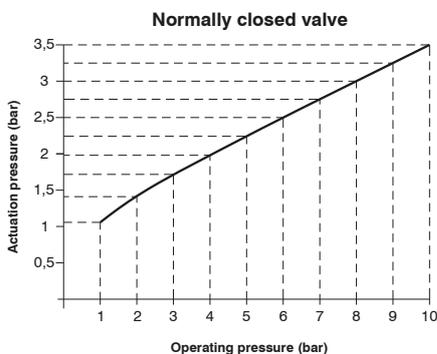
These valves have a mean life of 10 to 15 million cycles under normal operating conditions. Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction. Please ensure that the valve is being used according with the manufacturers specification, 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/SRING AND EXTERNAL SOLENOID PILOT VERSION**



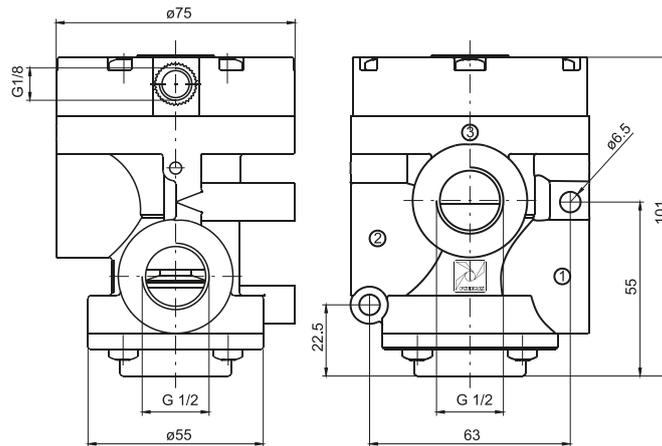
**Pneumatic - Spring**

Coding: T772.32.11.1

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)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

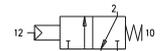


Weight 350 g



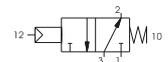
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1



1

AIR DISTRIBUTION

**Solenoid-Spring - Internal pilot**

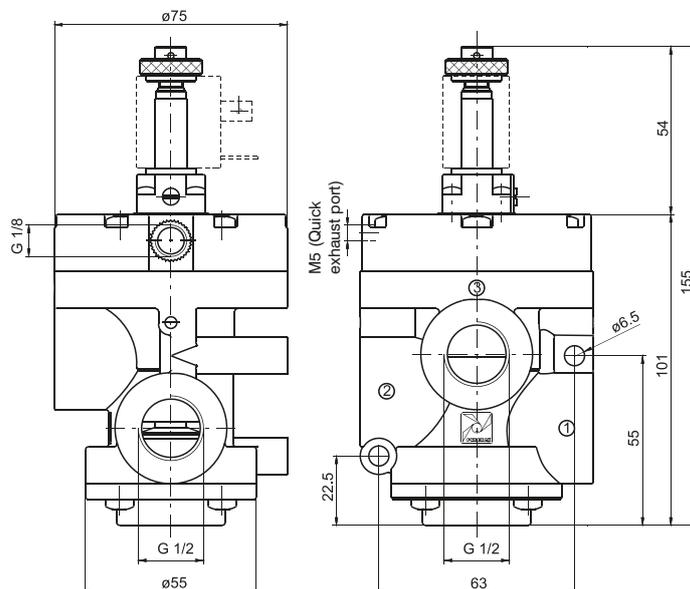
Coding: T772.32.0.Ⓢ.MP

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)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

FUNCTION	
Ⓢ 1AA	Normally Open
1AC	Normally Closed



Weight 390 g



**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





# Valves and solenoid valves poppet system Series T772-773 - for compressed air in technopolymer - G1/2"

## Solenoid-Spring - External pilot

Coding: T772.32.0.1.MP

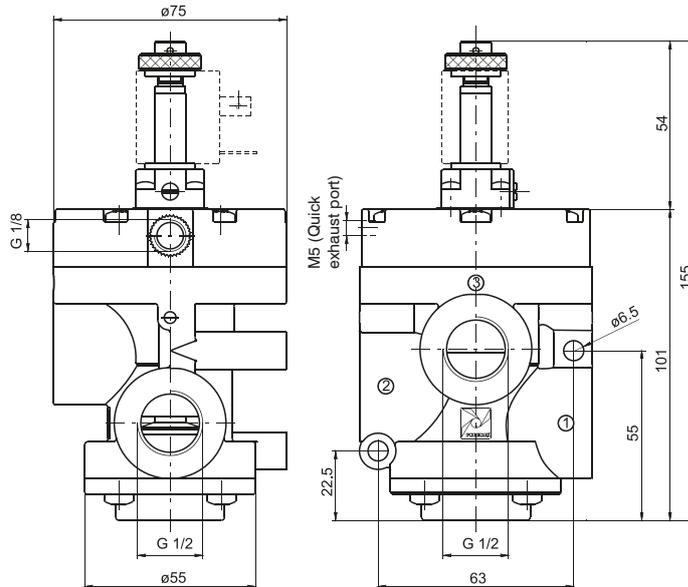
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	See diagram at general page
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

1

AIR DISTRIBUTION

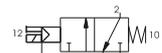


Weight 390 g



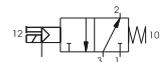
**For compressed air - N.C.**

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 - Internal pilot with quick exhaust

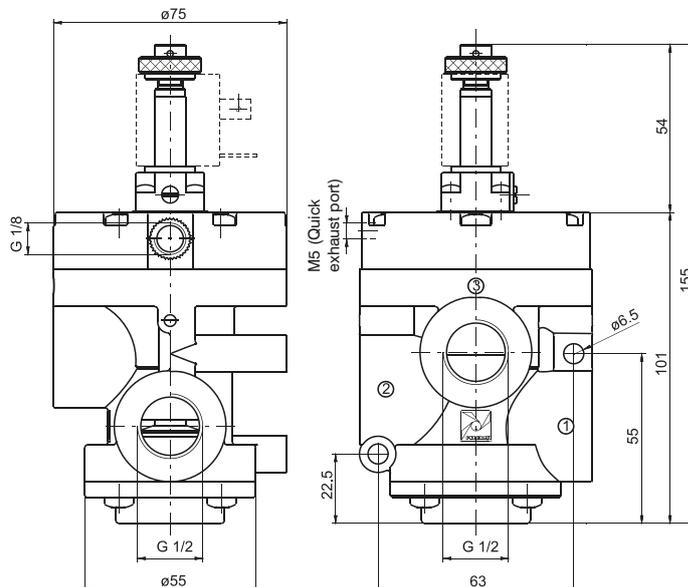
Coding: T772S.32.0.1.MP

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)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

FUNCTION	
1AA =	Normally Open
1AC =	Normally Closed



Weight 390 g



**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



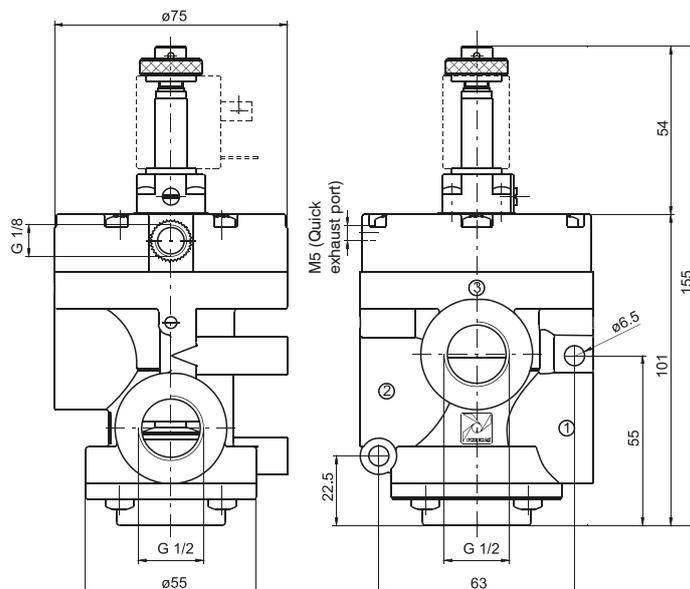
**Solenoid - Spring - External pilot with quick exhaust**

Coding: T772S.32.0.1.MP

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)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

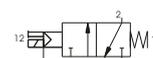


Weight 390 g



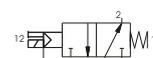
**For compressed air - N.C.**

- Inlet port 1
- Outlet port 2
- Exhaust port 3



**For compressed air - N.O.**

- Inlet port 3
- Outlet port 2
- Outlet port 1





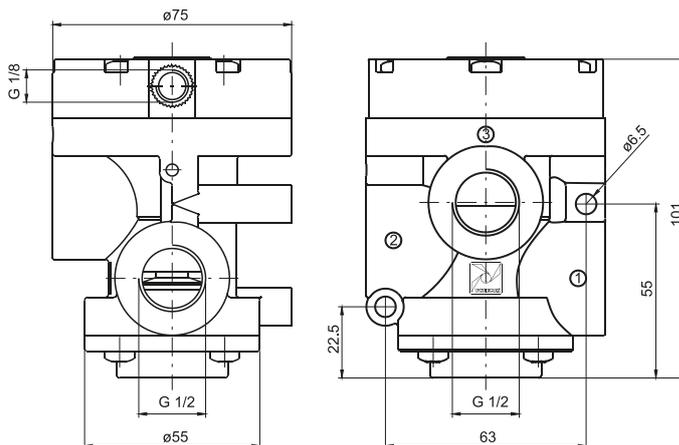
# Valves and solenoid valves poppet system Series T772-773 - For vacuum in technopolymer - G1/2"

## Pneumatic - Spring

Coding: T772/V.32.11.1

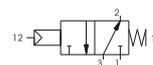
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

1  
AIR DISTRIBUTION

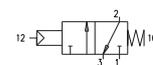


Weight 350 g

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



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

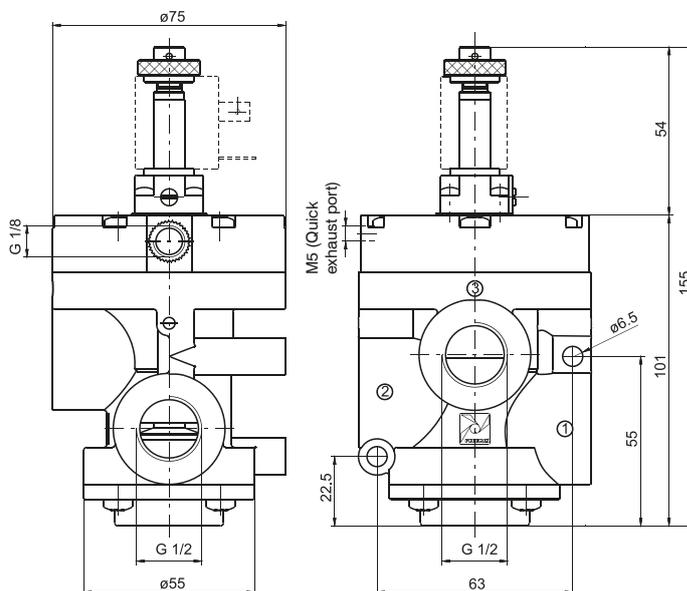


## Solenoid-Spring - Internal pilot

Coding: T772/V.32.0.Ⓜ.MV

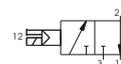
Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

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

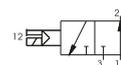


Weight 390 g

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



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



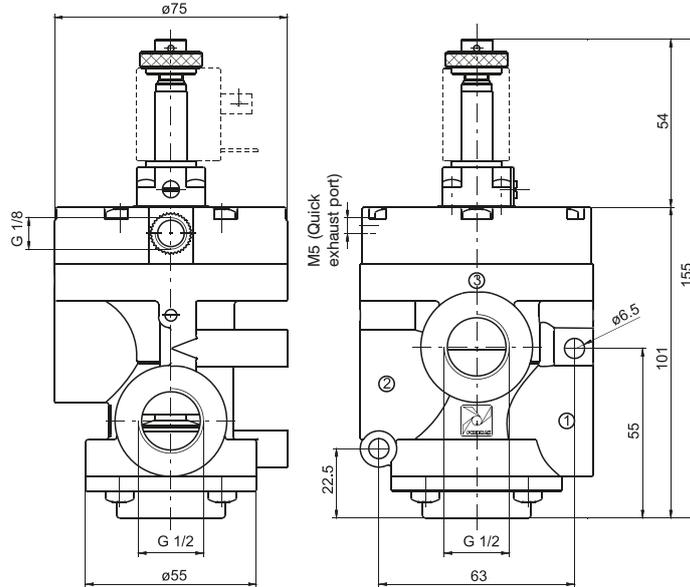
**Solenoid-Spring - External pilot**

Coding: T772/V.32.0.1.MP

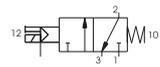
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"



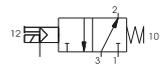
Weight 390 g



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



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



1  
AIR DISTRIBUTION

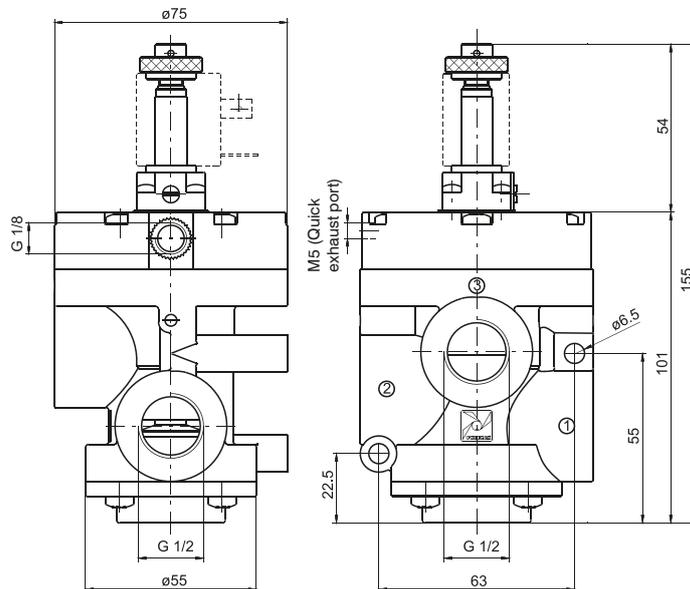
**Solenoid - Spring - External pilot with quick exhaust**

Coding: T772/VS.32.0.1.MP

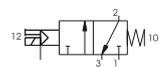
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"



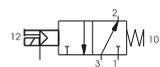
Weight 390 g



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



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





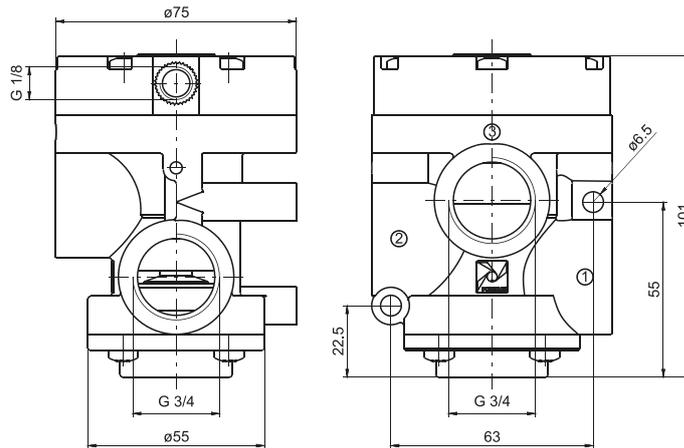
# Valves and solenoid valves poppet system Series T772-773 - For compressed air in technopolymer - G3/4"

## Pneumatic - Spring

Coding: T773.32.11.1

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)	7500
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

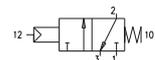
AIR DISTRIBUTION



Weight 330 g

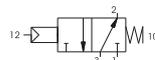
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1

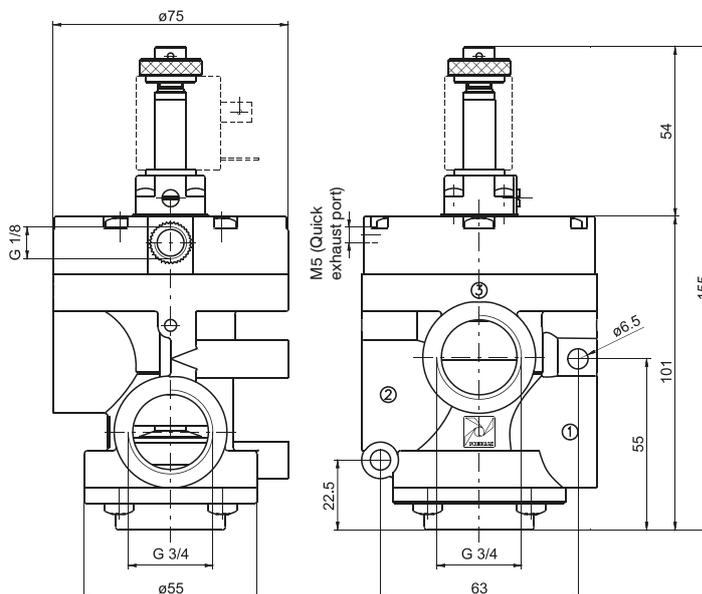


## Solenoid-Spring - Internal pilot

Coding: T773.32.0.F.MP

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)	7500
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

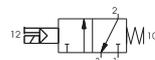
FUNCTION	
<b>F</b> 1AA =	Normally Open
1AC =	Normally Closed



Weight 370 g

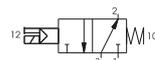
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1



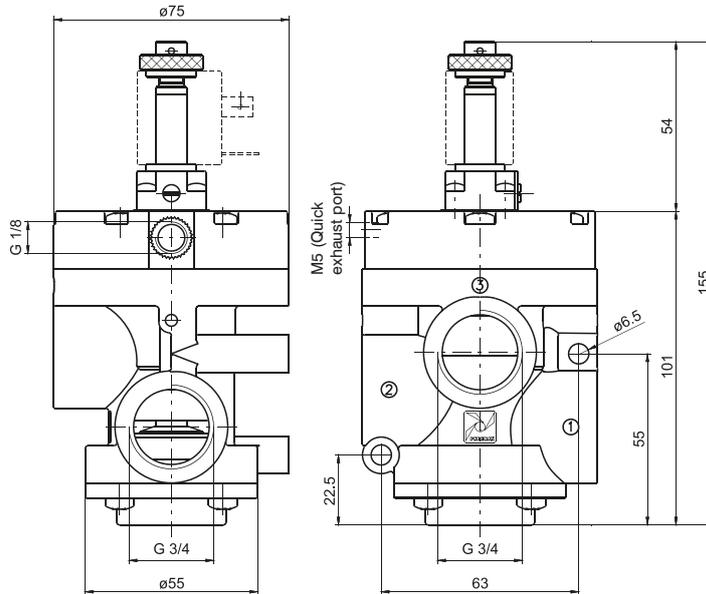
**Solenoid-Spring - External pilot**

Coding: T773.32.0.1.MP

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)	7500
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

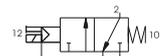


Weight 370 g



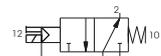
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1



1

AIR DISTRIBUTION

**Solenoid-Spring - Internal pilot with quick exhaust**

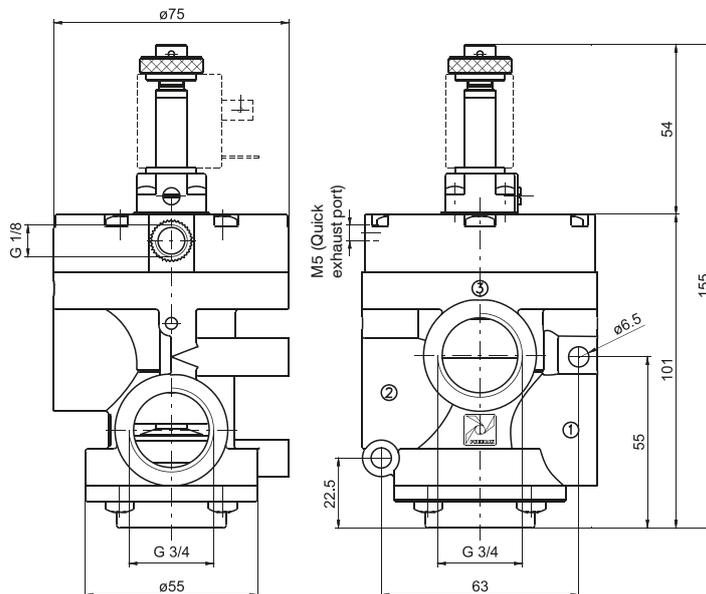
Coding: T773S.32.0.1.MP

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
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Flow rate at 6 bar with Δp=1 (NI/min)	7500
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

FUNCTION	
<b>1AA</b>	Normally Open
<b>1AC</b>	Normally Closed

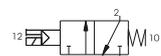


Weight 370 g



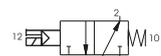
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1





**Valves and solenoid valves poppet system**  
**Series T772-773 - For compressed air in technopolymer - G3/4"**

**Solenoid - Spring - External pilot with quick exhaust**

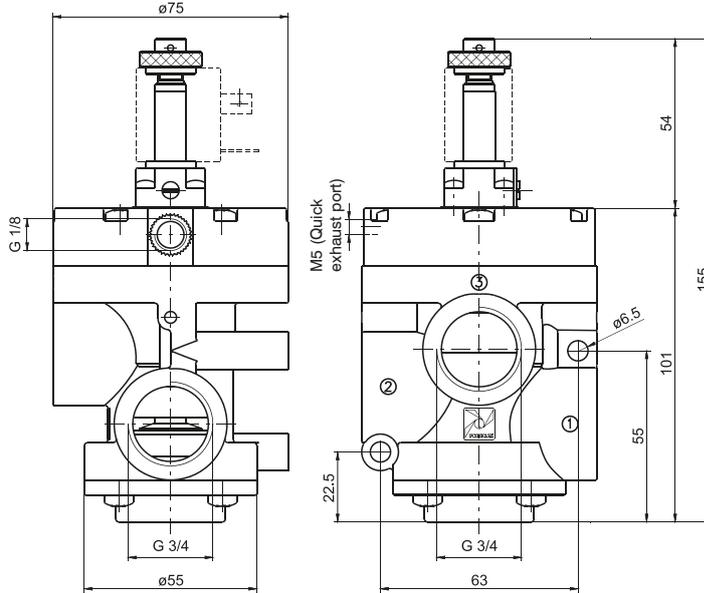
Coding: T773S.32.0.1.MP

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)	7500
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

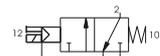
1  
AIR DISTRIBUTION



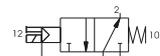
Weight 370 g



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



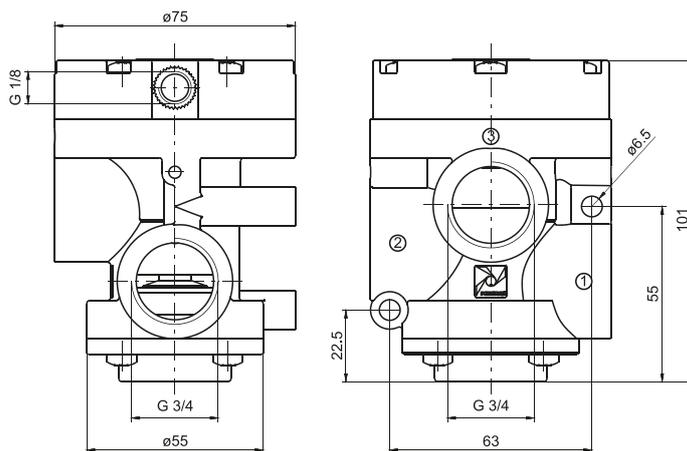
**For compressed air - N.O.**  
 Inlet port 3  
 Outlet port 2  
 Outlet port 1



**Pneumatic - Spring**

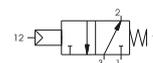
Coding: T773/V.32.11.1

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

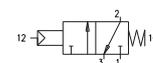


Weight 330 g

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



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



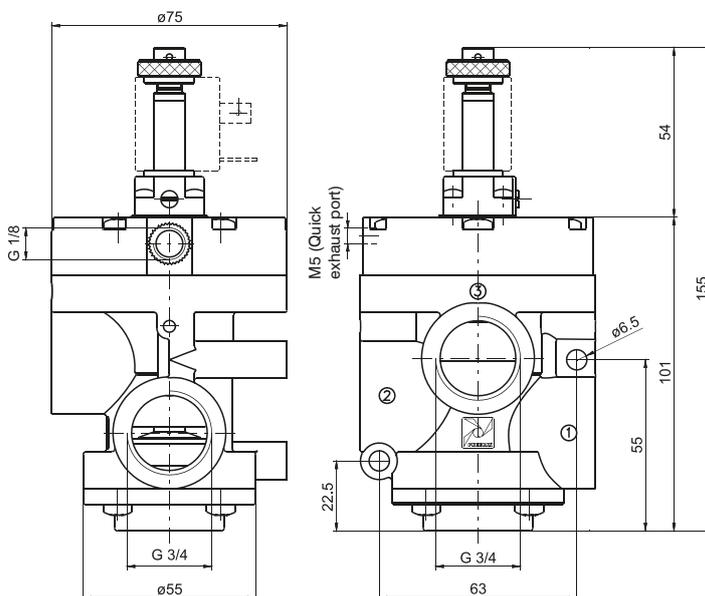
1  
AIR DISTRIBUTION

**Solenoid-Spring - Internal pilot**

Coding: T773/V.32.0.Ⓜ.MV

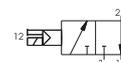
Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ÷ +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

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

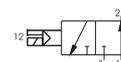


Weight 370 g

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



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





**Valves and solenoid valves poppet system**  
**Series T772-773 - For vacuum in technopolymer - G3/4"**

**Solenoid-Spring - External pilot**

Coding: T773/V.32.0.1.MP

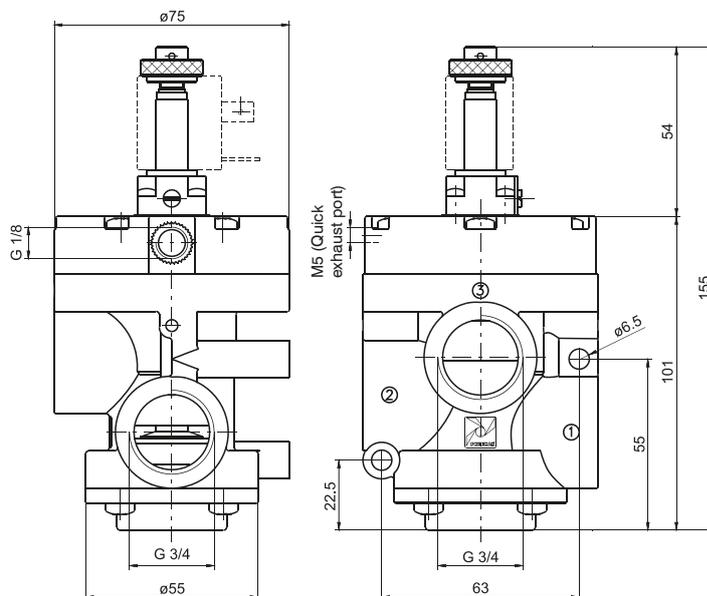
**Operational characteristics**

Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

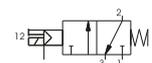
1  
AIR DISTRIBUTION



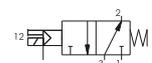
Weight 350 g



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



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



**Solenoid - Spring - External pilot with quick exhaust**

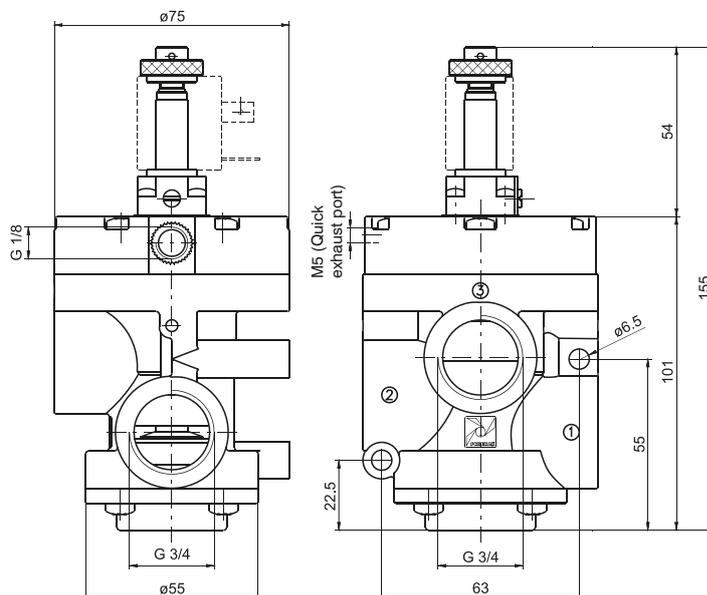
Coding: T773/VS.32.0.1.MP

**Operational characteristics**

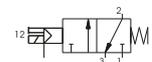
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"



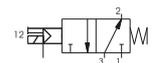
Weight 350 g



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



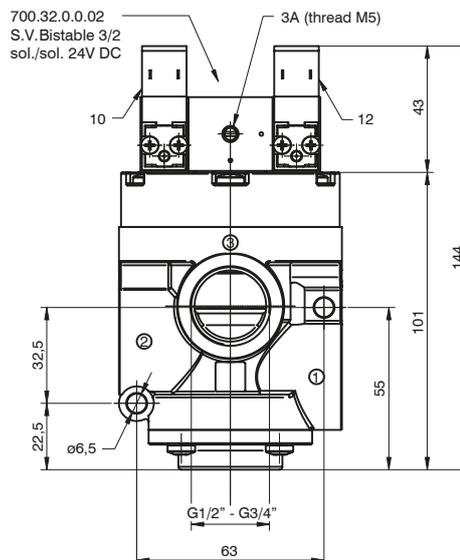
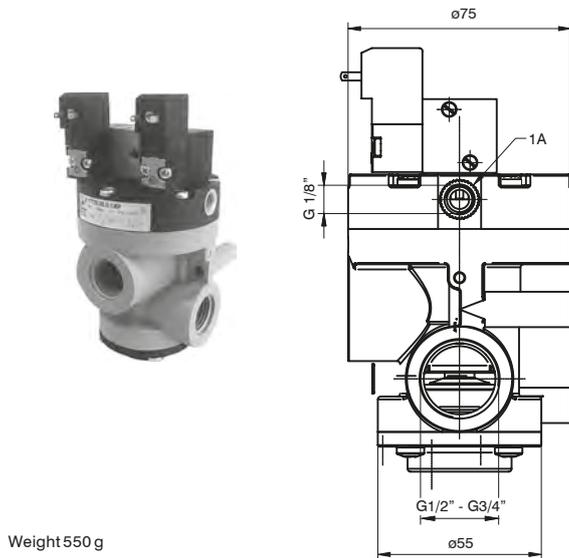
**For vacuum - N.C.**  
 Exhaust port 3  
 Outlet port 2  
 Pump 1



**Bistable for compressed air - G1/2"**

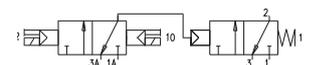
Coding: T772.32.0.1.BP

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"



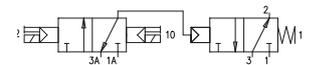
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

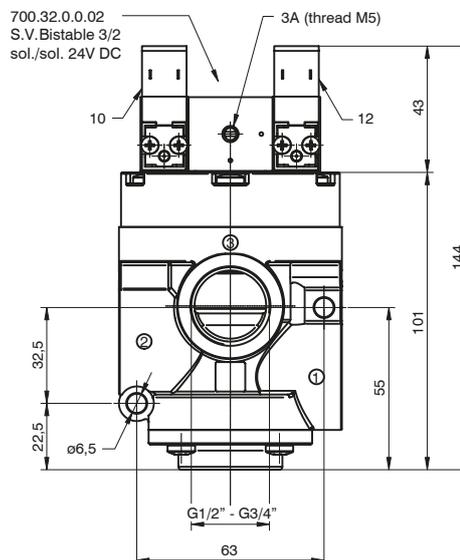
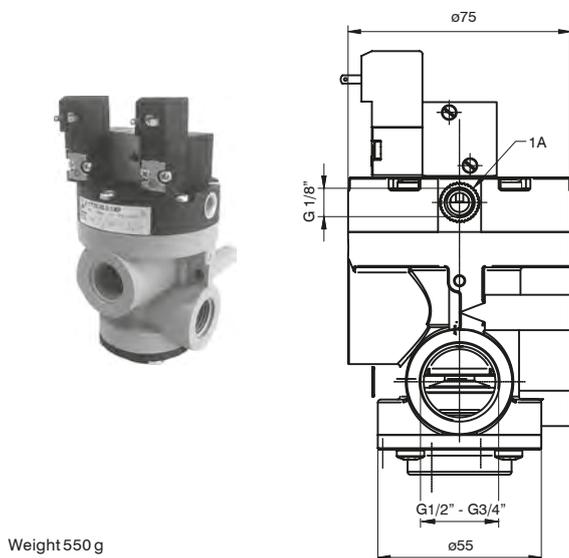
Inlet port 3  
Outlet port 2  
Outlet port 1



**Bistable for compressed air - G3/4"**

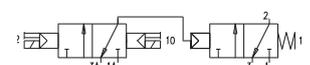
Coding: T773.32.0.1.BP

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	7500
Orifice size (mm)	15
Working ports size	G3/4"
Pilot ports size	G1/8"



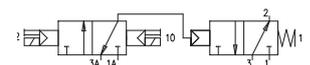
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1





# Valves and solenoid valves poppet system Series T772-773 - Bistable for compressed air in technopolymer - G1/2" & G3/4"

## Bistable for compressed air with quick exhaust - G1/2"

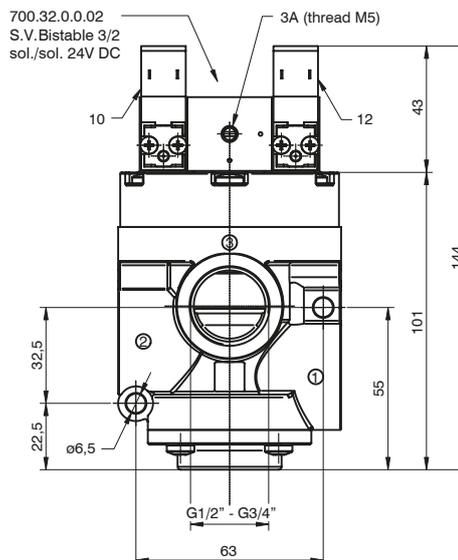
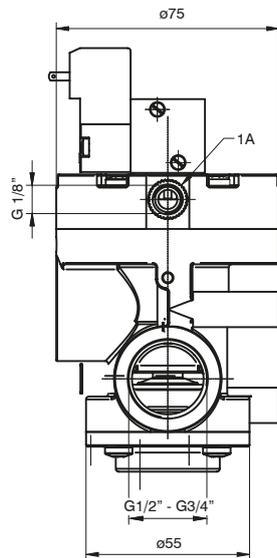
Coding: T772S.32.0.1.BP

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	4100
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

1  
AIR DISTRIBUTION

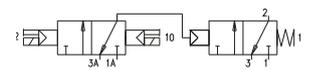


Weight 550 g



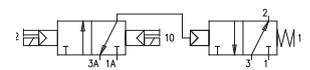
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1



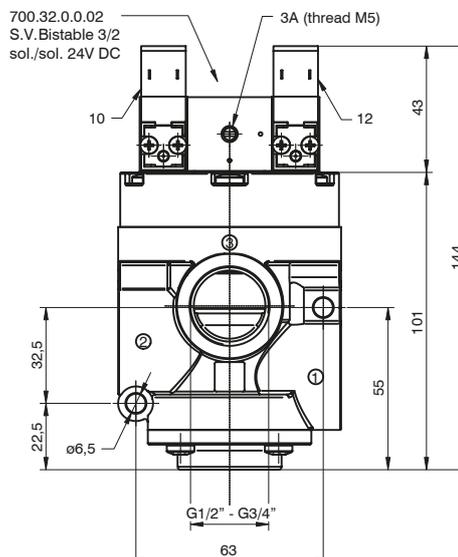
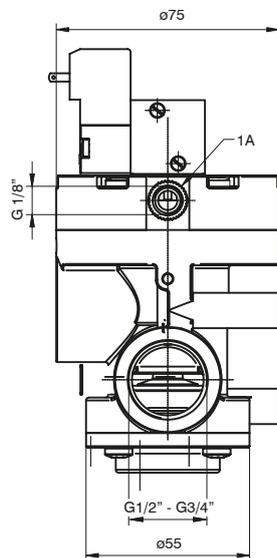
## Bistable for compressed air with quick exhaust - G3/4"

Coding: T773S.32.0.1.BP

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	7500
Orifice size (mm)	15
Working ports size	G3/4"
Pilot ports size	G1/8"

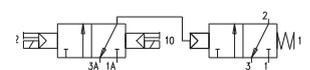


Weight 550 g



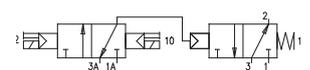
**For compressed air - N.C.**

Inlet port 1  
Outlet port 2  
Exhaust port 3



**For compressed air - N.O.**

Inlet port 3  
Outlet port 2  
Outlet port 1



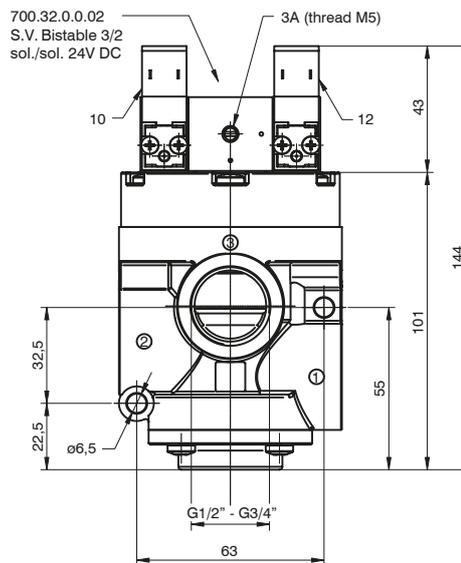
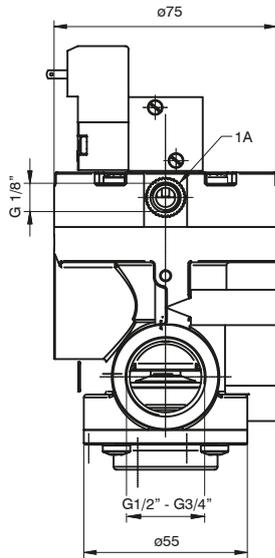
**Bistable for vacuum - G1/2"**

Coding: T772/V.32.0.1.BP

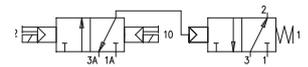
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"



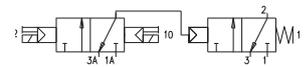
Weight 550 g



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



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



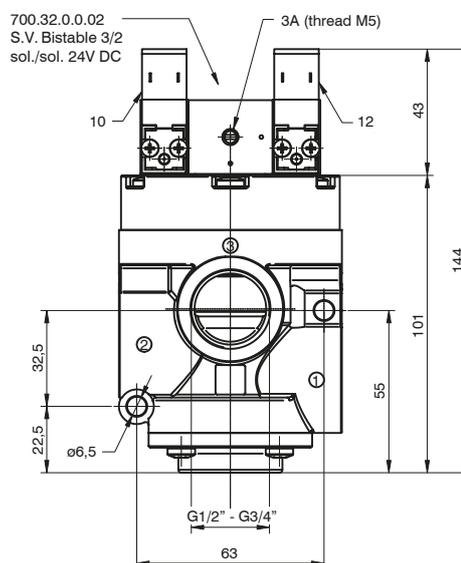
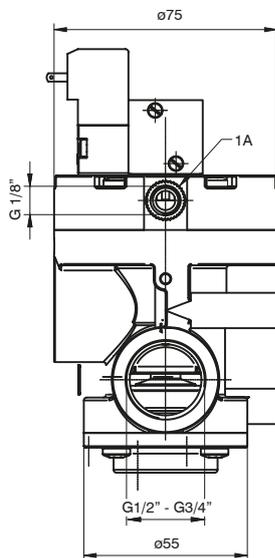
**Bistable for vacuum - G3/4"**

Coding: T773/V.32.0.1.BP

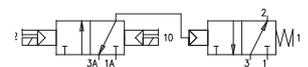
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G3/4"
Pilot ports size	G1/8"



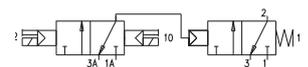
Weight 550 g



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



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





**Valves and solenoid valves poppet system**  
**Series T772-773 - Bistable for vacuum in technopolymer - G1/2" & G3/4"**

**Bistable for vacuum with quick exhaust - G1/2"**

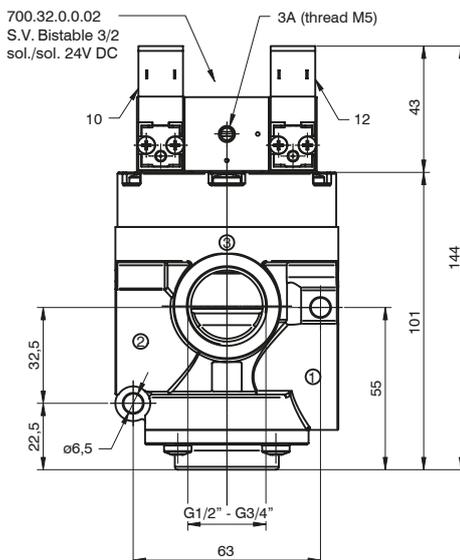
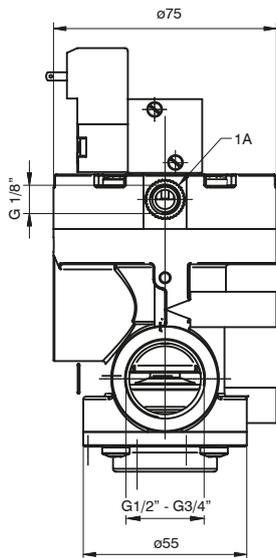
Coding: T772/VS.32.0.1.BP

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

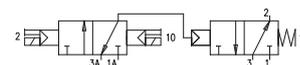
1  
AIR DISTRIBUTION



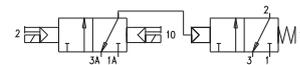
Weight 550 g



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



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



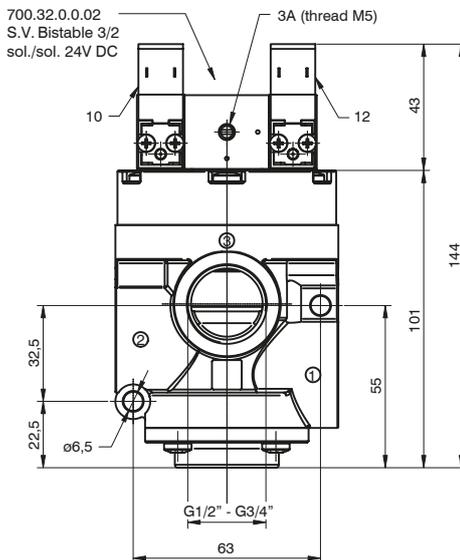
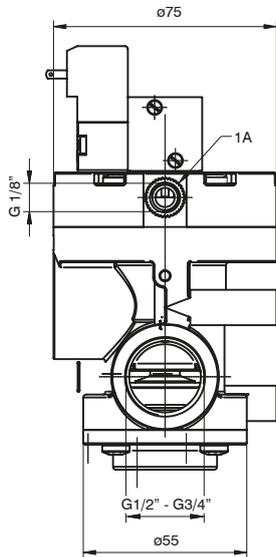
**Bistable for vacuum with quick exhaust - G3/4"**

Coding: T773/VS.32.0.1.BP

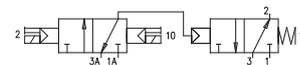
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G3/4"
Pilot ports size	G1/8"



Weight 550 g



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



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

