

Valves and solenoid valves poppet system Series T772-773

Valves and solenoid valves poppet system G1/2" and G3/4" made of high resistance thermoplastic material.



The use of thermoplastic materials has made possible to obtain significantly reduced weights respect to the zamak version and, most importantly, a cost optimization.

The use of a rolling diaphragm in place of the traditional piston, allowed to eliminate friction and wear on the seal. Except for the versions with an external vacuum supply and normally open self feeding vacuum. There is an additional seal provided on the piston which isolates the diaphragm connection 3 this makes it possible to improve the functionality of the valve.

For versions with microsolonoid 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 MP version of the solenoid actuator requires an external air or vacuum supply. The MV version uses a self feeding vacuum.

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 (NBR)

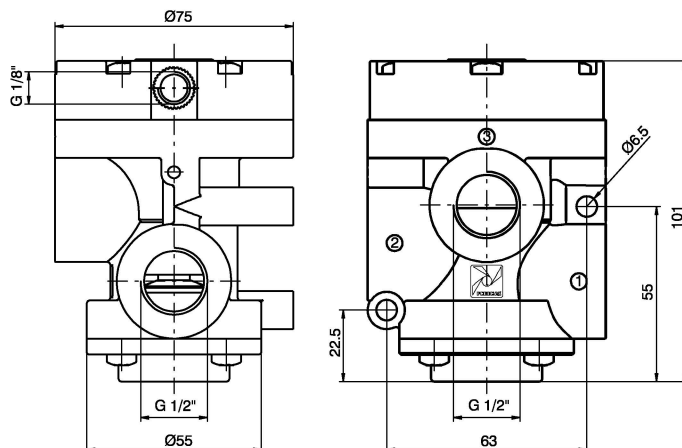


Use and maintenance

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  (see Series 300).

Series T700

Pneumatic-Spring



Ordering code

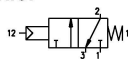
T772/V.32.11.1

For vacuum - N.O.

Exhaust: Port 1

Outlet: Port 2

Pump: Port 3

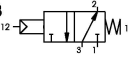


For vacuum - N.C.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

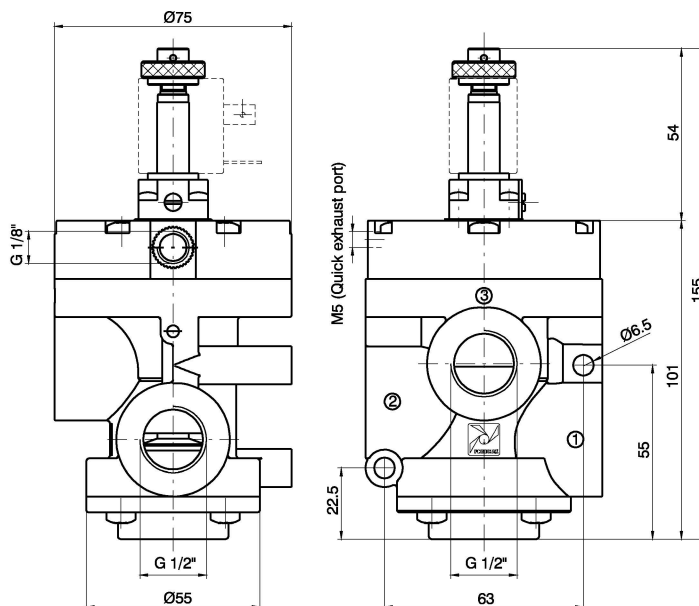


Weight 350 g

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G1/2"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 50 - N.O. = 27
Response time according to ISO 12238 de-energised (ms)	N.C. = 150 - N.O. = 195

Solenoid-Spring-Self feeding



Ordering code

T772/V.32.0.Ⓢ.MV

FUNCTION

Ⓢ 1AA=Normally Open

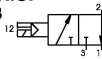
1AC=Normally Closed

For vacuum - N.O.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

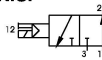


For vacuum - N.C.

Exhaust: Port 1

Outlet: Port 2

Pump: Port 3

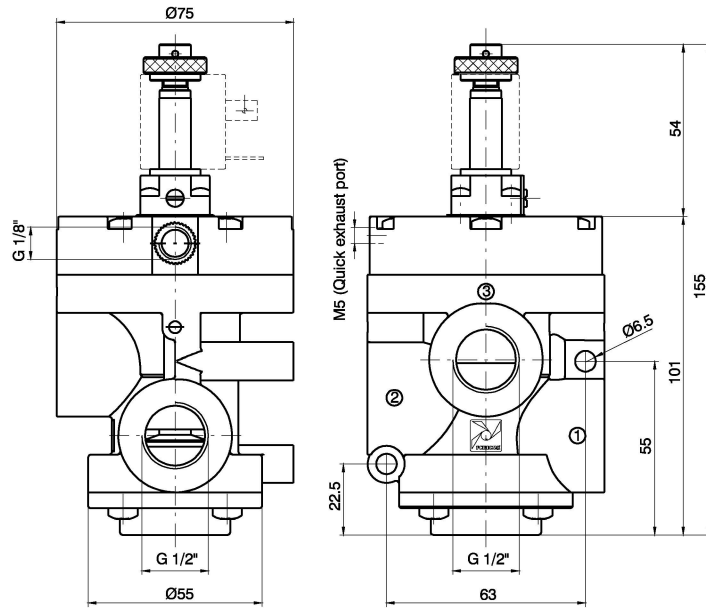


Weight 390 g

Operational characteristics

Fluid	Vacuum
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G1/2"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1AC = 55 - 1AA = 33
Response time according to ISO 12238 de-energised (ms)	1AC = 30 - 1AA = 38

Solenoid-Spring-External feeding



Ordering code

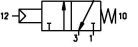
T772/V.32.0.1.MP

For vacuum - N.O.

Exhaust: Port 1

Outlet: Port 2

Pump: Port 3

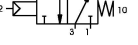


For vacuum - N.C.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

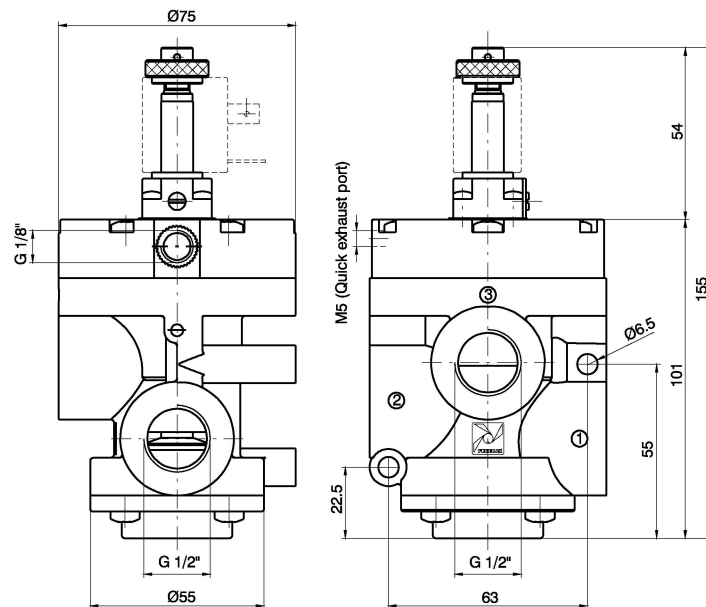


Weight 390 g

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G 1/2"
Pilot port size	G 1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 42 - N.O. = 22
Response time according to ISO 12238 de-energised (ms)	N.C. = 135 - N.O. = 175

Solenoid-Spring-Self feeding



Ordering code

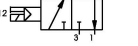
T772/VS.32.0.1.MP

For vacuum - N.O.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

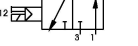


For vacuum - N.C.

Exhaust: Port 1

Outlet: Port 2

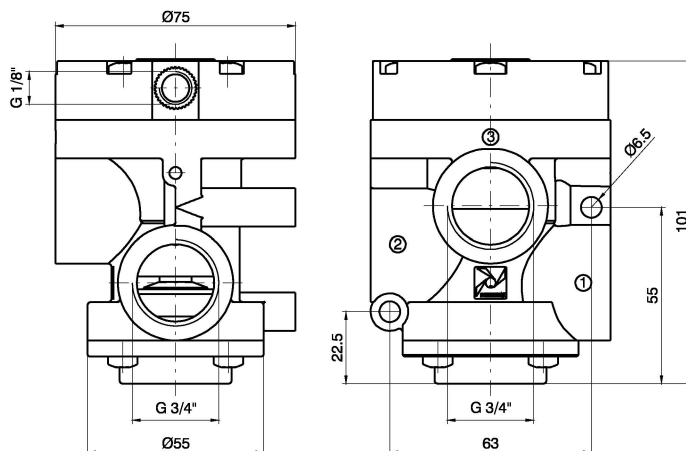
Pump: Port 3



Weight 390 g

Operational characteristics

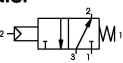
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G 1/2"
Pilot port size	G 1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 43 - N.O. = 25
Response time according to ISO 12238 de-energised (ms)	N.C. = 37 - N.O. = 42

Pneumatic-Spring

Ordering code
T773/V.32.11.1
For vacuum - N.C.

Exhaust: Port 3

Outlet: Port 2

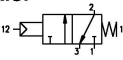
Pump: Port 1


For vacuum - N.O.

Exhaust: Port 1

Outlet: Port 2

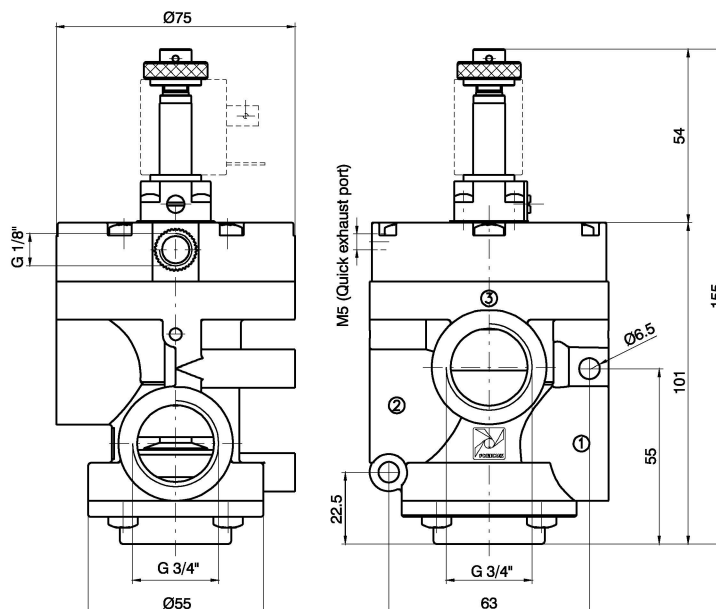
Pump: Port 3



Weight 330 g

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	20
Working port size	G3/4"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 28 - N.O. = 50
Response time according to ISO 12238 de-energised (ms)	N.C. = 190 - N.O. = 150

Solenoid-Spring-Self feeding

Ordering code
T773/V.32.0.3.MV
FUNCTION

1AA=Normally Open

1AC=Normally Closed

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

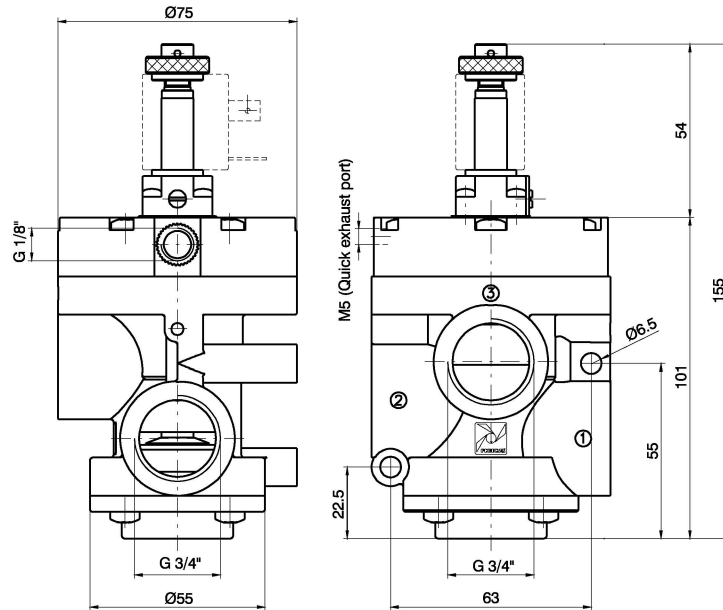


Weight 370 g

Operational characteristics

Fluid	Vacuum
Temperature °C	-5 ... +50
Orifice size (mm)	20
Working port size	G3/4"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1AC = 35 - 1AA = 32
Response time according to ISO 12238 de-energised (ms)	1AC = 30 - 1AA = 80

Solenoid-Spring-External feeding



Ordering code

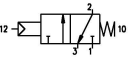
T773/V.32.0.1.MP

For vacuum - N.O.

Exhaust: Port 1

Outlet: Port 2

Pump: Port 3



For vacuum - N.C.

Exhaust: Port 3

Outlet: Port 2

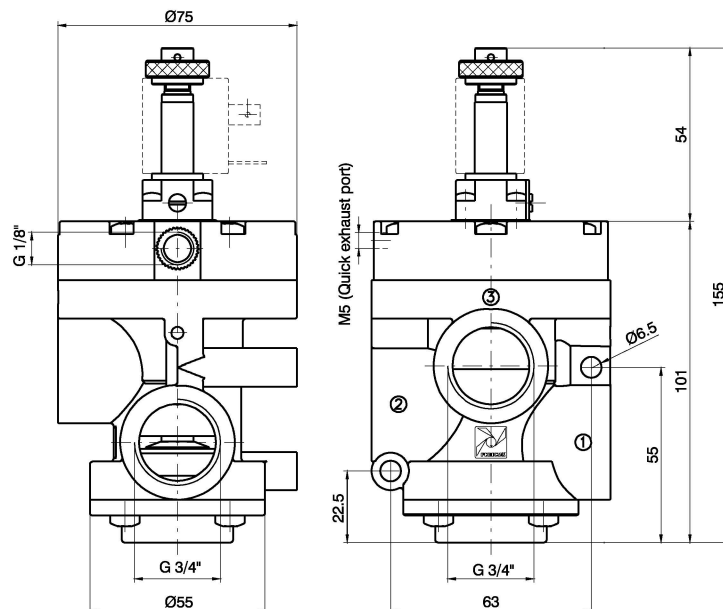
Pump: Port 1



Weight 350 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	20
Working port size	G3/4"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 25 - N.O. = 40
Response time according to ISO 12238 de-energised (ms)	N.C. = 175 - N.O. = 145

Solenoid-Spring-External feeding with quick exhaust



Ordering code

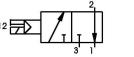
T773/VS.32.0.1.MP

For vacuum - N.O.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

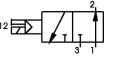


For vacuum - N.C.

Exhaust: Port 1

Outlet: Port 2

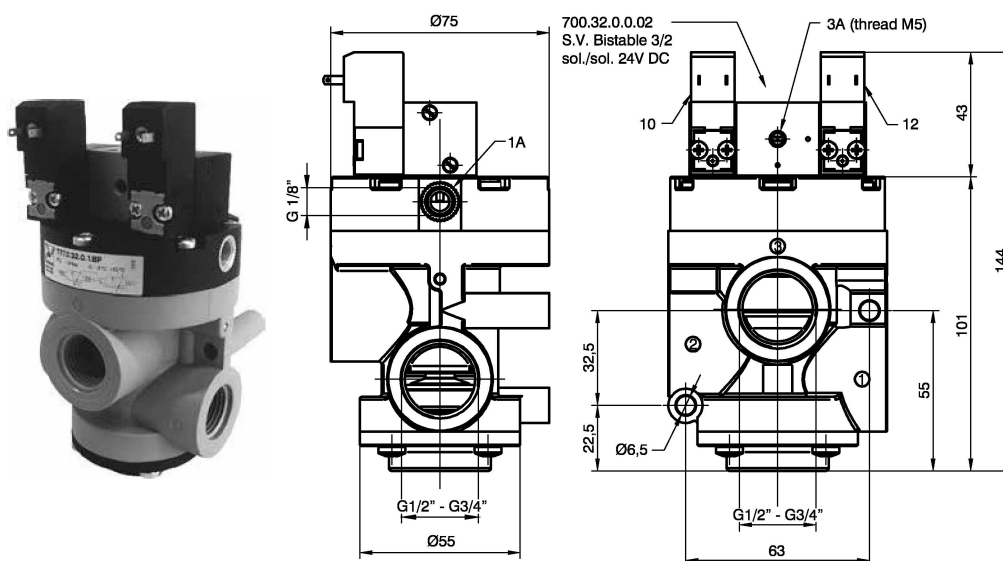
Pump: Port 3



Weight 390 g

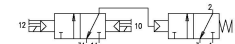
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	20
Working port size	G3/4"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	N.C. = 25 - N.O. = 42
Response time according to ISO 12238 de-energised (ms)	N.C. = 40 - N.O. = 38

Bistable version for vacuum G1/2"

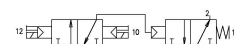


Ordering code
T772/V.32.0.1.BP

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

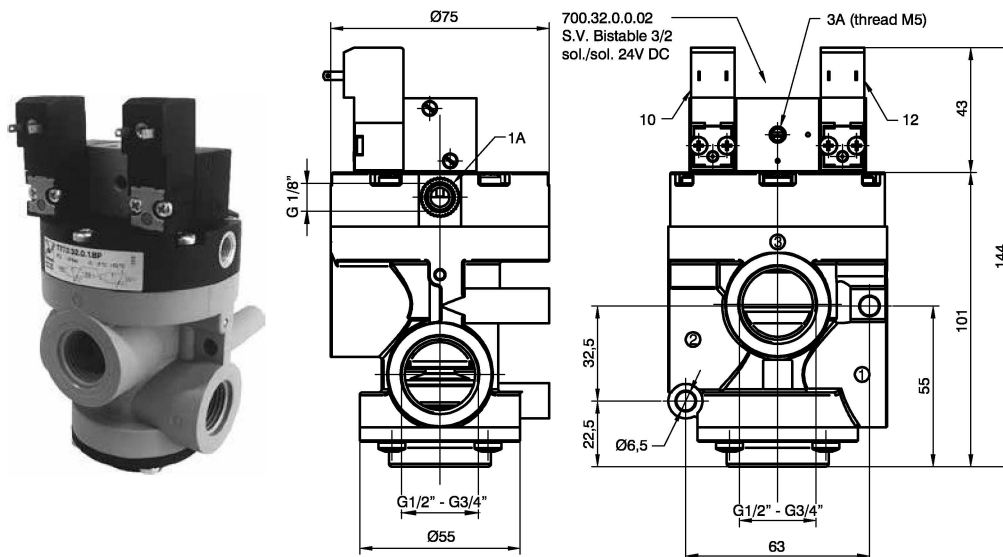


Weight 550 g

Operational characteristics

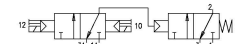
Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G 1/2"
Pilot port size	G 1/8"

Bistable version for vacuum G3/4"



Ordering code
T773/V.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

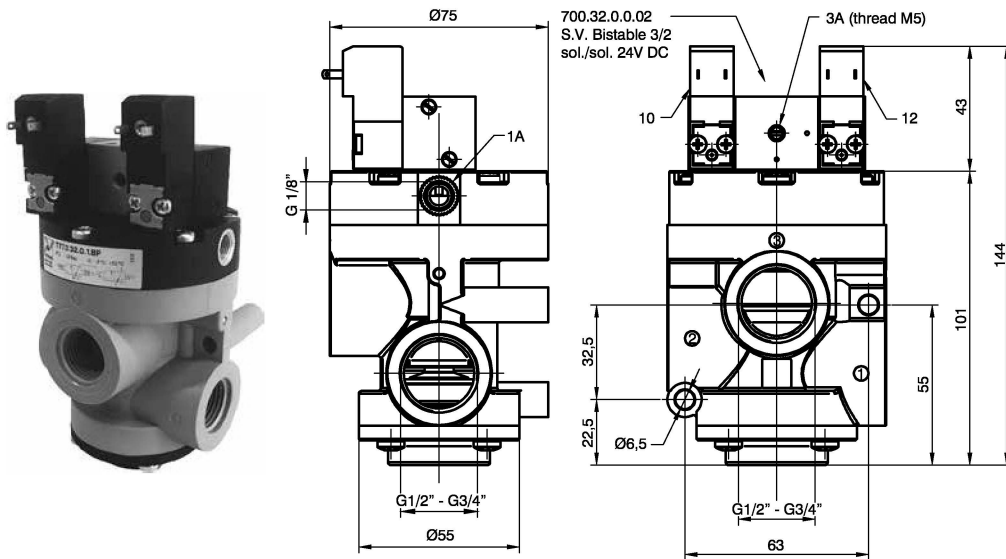


Weight 550 g

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G 3/4"
Pilot port size	G 1/8"

Bistable version for vacuum G1/2" with quick exhaust



Ordering code

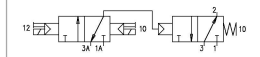
T772/VS.32.0.1.BP

For vacuum - N.C.

Exhaust: Port 1

Outlet: Port 2

Pump: Port 3

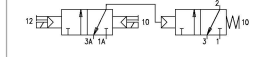


For vacuum - N.O.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

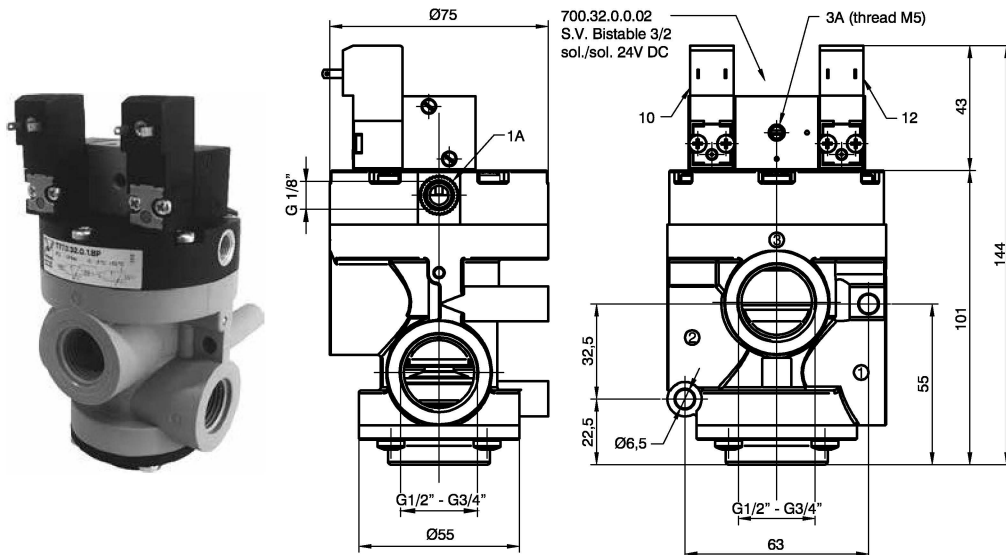


Weight 550 g

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G 1/2"
Pilot port size	G 1/8"

Bistable version for vacuum G3/4" with quick exhaust



Ordering code

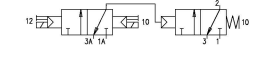
T773/VS.32.0.1.BP

For vacuum - N.O.

Exhaust: Port 3

Outlet: Port 2

Pump: Port 1

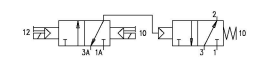


For vacuum - N.C.

Exhaust: Port 1

Outlet: Port 2

Pump: Port 3



Weight 550 g

Operational characteristics

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