

Valves and solenoid valves poppet system Series 700

Valves and solenoid valves poppet system for vacuum applications with high flow rates.




These are manufactured only in 3/2 and 2/2 versions, either normally closed or normally open. Selection of the right type and connection to the pump requires some knowledge and skill.

For electrical actuation a normal M2 microsolenoid is used in the case of control via air and a special M2/V microsolenoid is used when control is via vacuum.

Construction characteristics

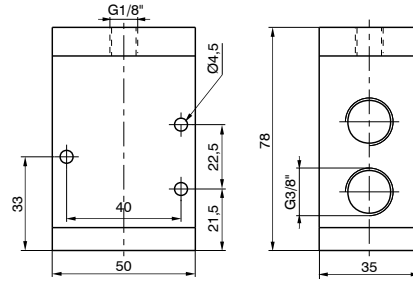
	G3/8"	G1/2"- G3/4"	G1"	G1 1/2"
Body	Aluminium	Zinc alloy	Aluminium	Aluminium
Actuators rod	Stainless steel			
Bottom plates	Aluminium			
Piston seals	NBR			
Springs	Stainless steel			
Poppets	NBR			
Pistons	Aluminium			

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 "M2" or "M2/V" mechanicals mounted. The solenoid coils are not included and have to be ordered separately (see summary page for solenoid coils). Certified solenoid coils are also available 

Series 700

Pneumatic-Spring

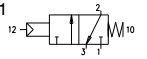


Weight 360 g

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

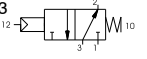
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



For vacuum - N.C.

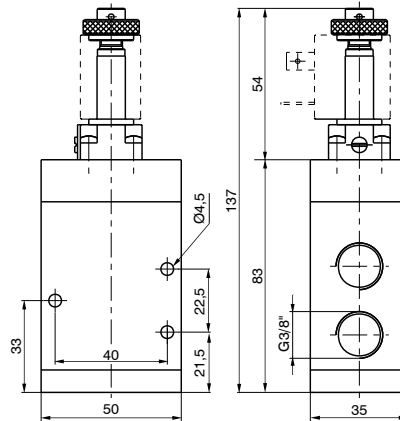
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-10 ... +70
Orifice size (mm)	10
Working port size	G3/8"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 12 - 1A = 13
Response time according to ISO 12238 de-energised (ms)	1C = 46 - 1A = 48

Solenoid-Spring-Self feeding

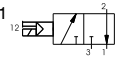


Weight 420 g

Ordering code	
779/V.32.0.F.M2/V	
FUNCTION	
F	1AA=Normally Open
	1AC=Normally Closed

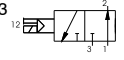
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



For vacuum - N.C.

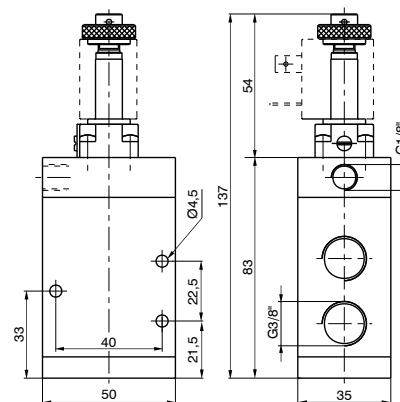
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



Operational characteristics

Fluid	Vacuum
Temperature °C	-10 ... +50
Orifice size (mm)	10
Working port size	G3/8"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1AC = 26 - 1AA = 16
Response time according to ISO 12238 de-energised (ms)	1AC = 9 - 1AA = 11

Solenoid-Spring-External feeding

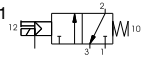


Weight 420 g

Ordering code	
779/V.32.0.F.M2	
FUNCTION	
F	1A=Normally Open
	1C=Normally Closed

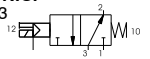
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



For vacuum - N.C.

Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



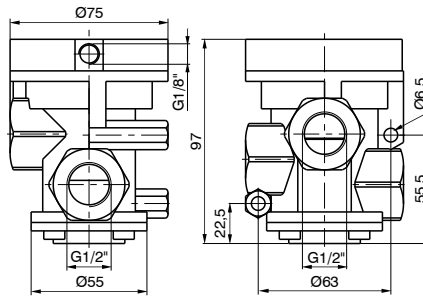
Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-10 ... +50
Orifice size (mm)	10
Working port size	G3/8"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 10 - 1A = 11
Response time according to ISO 12238 de-energised (ms)	1C = 35 - 1A = 36

Pneumatic-Spring



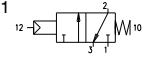
Weight 1100 g



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

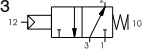
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



For vacuum - N.C.

Exhaust: Port 3
Outlet: Port 2
Pump: Port 1

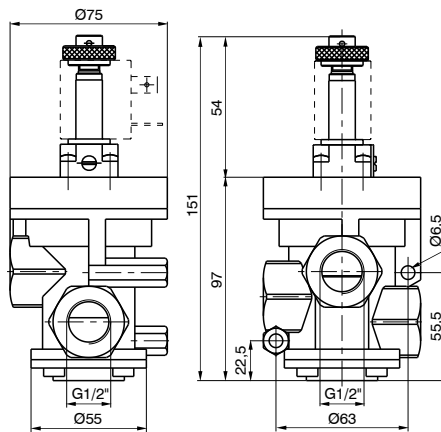


Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-10 ... +70
Orifice size (mm)	15
Working port size	G1/2"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 30 - 1A = 17
Response time according to ISO 12238 de-energised (ms)	1C = 105 - 1A = 150

Solenoid-Spring-Self feeding



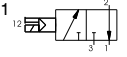
Weight 1160 g



Ordering code	
772/V.32.0.F.M2/V	
FUNCTION	
F	1AA=Normally Open
	1AC=Normally Closed

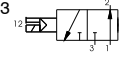
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



For vacuum - N.C.

Exhaust: Port 3
Outlet: Port 2
Pump: Port 1

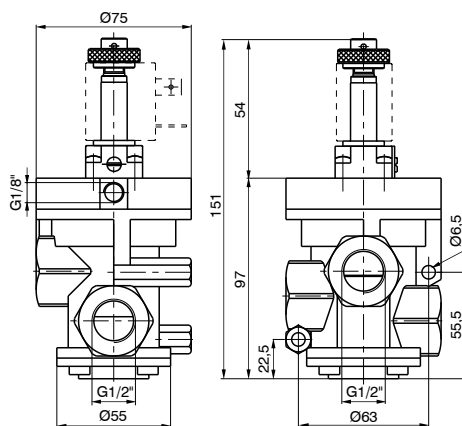


Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ... +50
Orifice size (mm)	15
Working port size	G1/2"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1AC = 80 - 1AA = 25
Response time according to ISO 12238 de-energised (ms)	1AC = 20 - 1AA = 20

Solenoid-Spring-External feeding



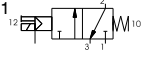
Weight 1160 g



Ordering code	
772/V.32.0.F.M2	
FUNCTION	
F	1A=Normally Open
	1C=Normally Closed

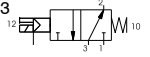
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



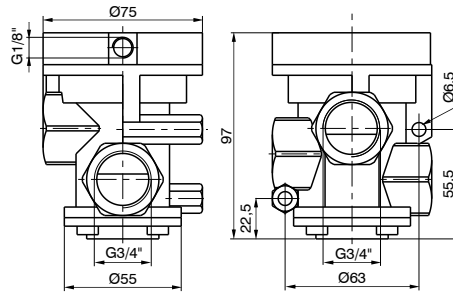
For vacuum - N.C.

Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
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)	1C = 25 - 1A = 15
Response time according to ISO 12238 de-energised (ms)	1C = 95 - 1A = 140

Pneumatic-Spring



Weight 990 g

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

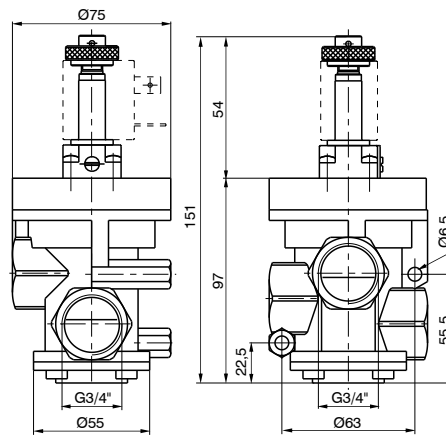
For vacuum - N.O.
Exhaust: Port 1
Outlet: Port 2 M10
Pump: Port 3

For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2 M10
Pump: Port 1

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	20
Working port size	G3/4"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 30 - 1A = 17
Response time according to ISO 12238 de-energised (ms)	1C = 105 - 1A = 145

Solenoid-Spring-Self feeding



Weight 1050 g

Ordering code	
773/V.32.0.F.M2/V	
FUNCTION	
F	1AA=Normally Open
	1AC=Normally Closed

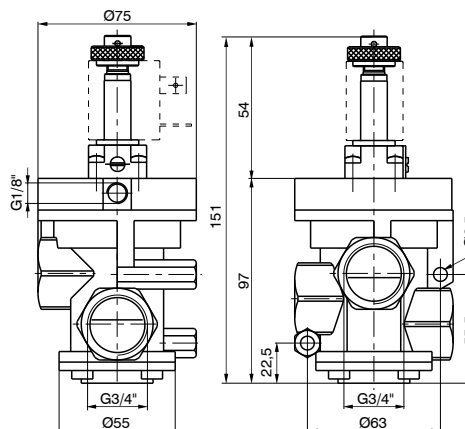
For vacuum - N.O.
Exhaust: Port 1 M10
Outlet: Port 2
Pump: Port 3

For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2 M10
Pump: Port 1

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 = 75 - 1AA = 33
Response time according to ISO 12238 de-energised (ms)	1AC = 13 - 1AA = 22

Solenoid-Spring-External feeding



Weight 1050 g

Ordering code	
773/V.32.0.F.M2	
FUNCTION	
F	1A=Normally Open
	1C=Normally Closed

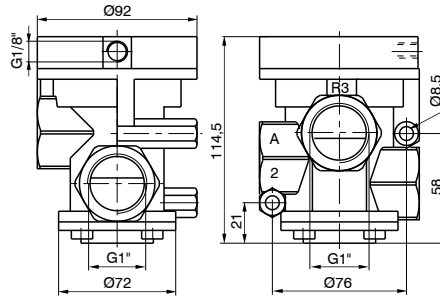
For vacuum - N.O.
Exhaust: Port 1 M10
Outlet: Port 2
Pump: Port 3

For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2 M10
Pump: Port 1

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
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)	1C = 25 - 1A = 13
Response time according to ISO 12238 de-energised (ms)	1C = 95 - 1A = 140

Pneumatic-Spring



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

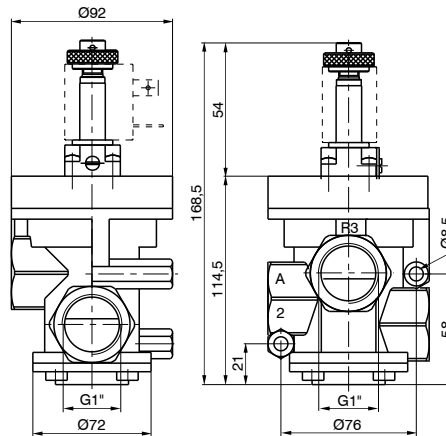
For vacuum - N.O.
Exhaust: Port 1
Outlet: Port 2
Pump: Port 3

For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1

Weight 1060 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	25
Working port size	G1"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 45 - 1A = 18
Response time according to ISO 12238 de-energised (ms)	1C = 250 - 1A = 260

Solenoid-Spring-Self feeding



Ordering code
771/V.32.0.F.M2/V
FUNCTION
F 1AA=Normally Open
1AC=Normally Closed

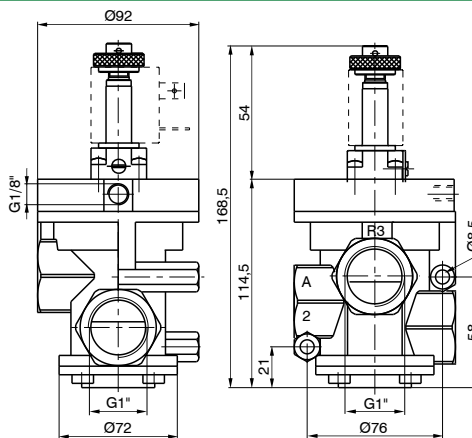
For vacuum - N.O.
Exhaust: Port 1
Outlet: Port 2
Pump: Port 3

For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1

Weight 1120 g

Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working port size	G1"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1AC = 120 - 1AA = 35
Response time according to ISO 12238 de-energised (ms)	1AC = 20 - 1AA = 40

Solenoid-Spring-External feeding



Ordering code
771/V.32.0.F.M2
FUNCTION
F 1A=Normally Open
1C=Normally Closed

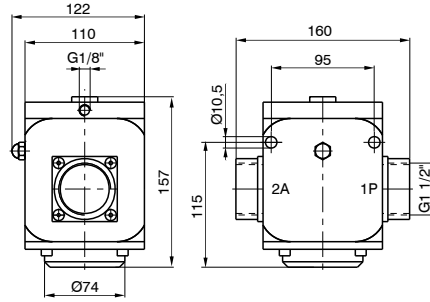
For vacuum - N.O.
Exhaust: Port 1
Outlet: Port 2
Pump: Port 3

For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1

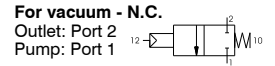
Weight 1120 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +50
Orifice size (mm)	25
Working port size	G1"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 45 - 1A = 17
Response time according to ISO 12238 de-energised (ms)	1C = 250 - 1A = 325

Pneumatic-Spring



Ordering code
776/V.22.11.1C

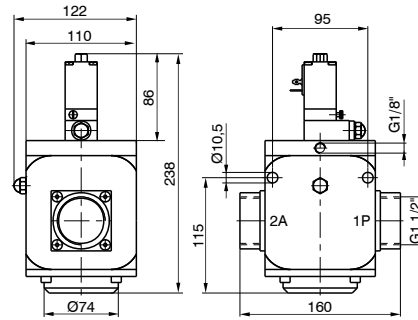


Weight 3950 g
Normally Closed

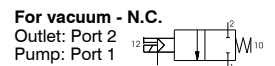
Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	38
Working port size	G1 1/2"
Pilot port size	G1/8"

Solenoid-Spring



Ordering code
776/V.22.0.1C.S
S SOLENOID CODE See S.V. pag.109

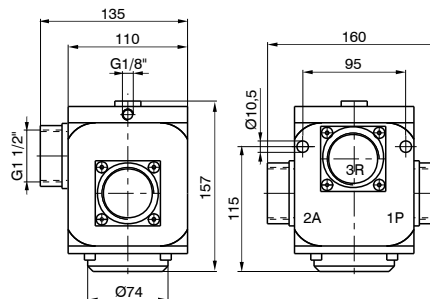


Weight 4450 g
External feeding Normally closed

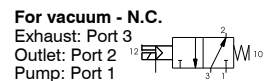
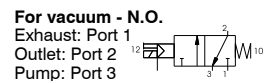
Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +50
Orifice size (mm)	38
Working port size	G1 1/2"
Pilot port size	G1/8"

Pneumatic-Spring



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

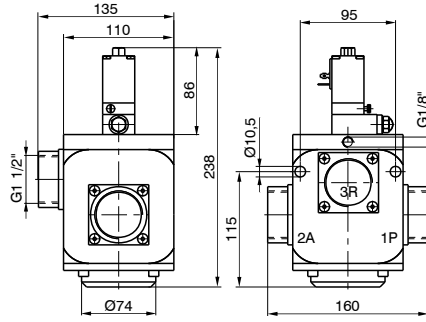


Weight 3900 g

Operational characteristics

Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +70
Orifice size (mm)	38
Working port size	G1 1/2"
Pilot port size	G1/8"

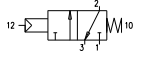
Solenoid-Spring



Ordering code	
776/V.32.0.F.S	
FUNCTION	
F	1C= External feeding Normally closed
	1A= External feeding Normally open
SOLENOID CODE	
See S.V. pag.109	

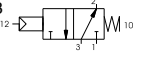
For vacuum - N.O.

Exhaust: Port 1
Outlet: Port 2
Pump: Port 3



For vacuum - N.C.

Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



Weight 4500 g

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ... +50
Orifice size (mm)	38
Working port size	G1 1/2"
Pilot port size	G 1/8"