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

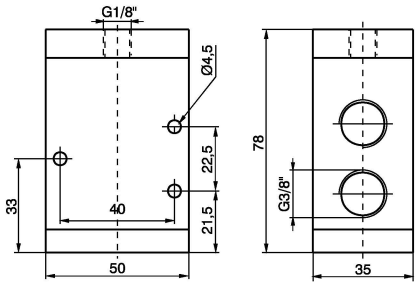
	G3/8"	G1/2"- G3/4"	G1"	G1 1/2"
Body	Aluminium	Zinc alloy	Aluminium	Aluminium
Actuators rod	Stainless steel			
Bottom plates	Aluminium			
Piston seals	NBR			
Springs	Stainless steel			
Poppets	NBR			
Pistons	Aluminium			

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 c UL us

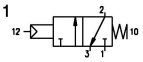
Series 700

Pneumatic-Spring

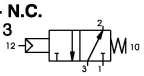


Ordering code
779/V.32.11.Ⓕ
Ⓕ FUNCTION
1C=Normally Closed
1A=Normally Open

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



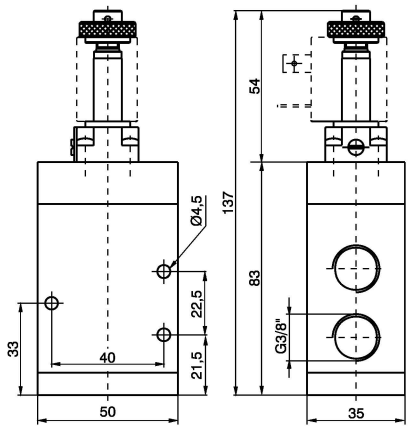
For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



Weight 360 g

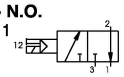
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-10 ... +70
Orifice size (mm)	10
Working port size	G3/8"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1C = 12 - 1A = 13
Response time according to ISO 12238 de-energised (ms)	1C = 46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

Solenoid-Spring-Self feeding

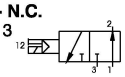


Ordering code
779/V.32.0.Ⓕ.M2/V
Ⓕ FUNCTION
1AA=Normally Open
1AC=Normally Closed

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



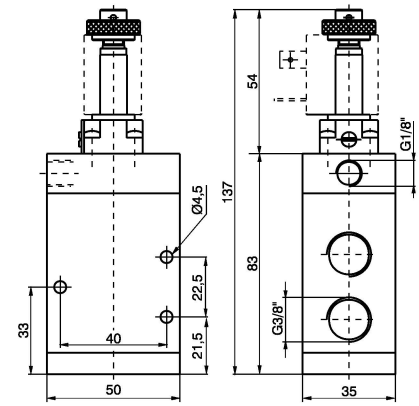
For vacuum - N.C.
Exhaust: Port 3
Outlet: Port 2
Pump: Port 1



Weight 420 g

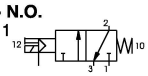
Operational characteristics	
Fluid	Vacuum
Temperature °C	-10 ... +50
Orifice size (mm)	10
Working port size	G3/8"
Pilot port size	G1/8"
Response time according to ISO 12238 energised (ms)	1AC = 26 - 1AA = 16
Response time according to ISO 12238 de-energised (ms)	1AC = 9 - 1AA = 11

Solenoid-Spring-External feeding

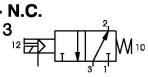


Ordering code
779/V.32.0.Ⓕ.M2
Ⓕ FUNCTION
1A=Normally Open
1C=Normally Closed

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 420 g

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