Series 700 - for compressed air and vacuum

The large flow valves and solenoid poppet valves for compressed air and vacuum.
Are manufactured for 3/2 and 2/2 versions only, either normally close and normally open.
For the compressed air oparation, the application is similar to the equivalent spool valves while for the vacuum operation a particular attention should be paid to the valve selected and its connection to the pump.
For the electric pilot it is used a normal miniature solenoid M2 with pneumatic actuator and the special miniature solenoid M2/V with vacuum.
The ordering code are referring to the solenoid valves with mechanics "M2" or "M2/V" assembled.
Coil are not included and have to be ordored separately (see Series 300).
Coil c UL us homologated are available (see 300 Series).

Construction characteristics

	G 3/8"
Body	Aluminium
Actuators rod	Stainless steel
Bottom plates	Aluminium
Piston seals	NBR
Springs	Stainless steel
Poppets	NBR
Pistons	Aluminium

Use and maintenance

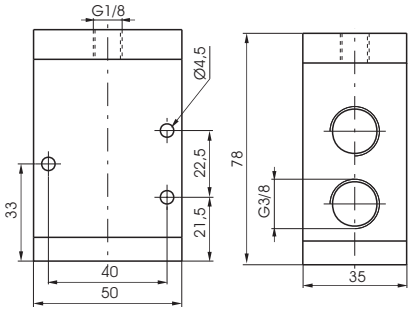
These valves have a mean life of 10 to 15 million cycles under normal operating conditions.
Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.
Please ensure that the valve is being used according with the manufacturers specification,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

Pneumatic - Spring

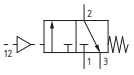
Coding: 779.32.11.Ⓕ

Operational characteristics	
Fluid	filtered and lubricated air or non
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2,5
Temperature °C	-10 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1800
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

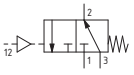
Ⓕ	FUNCTION
	1C = Normally Closed
	1A = Normally Open



N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



N.O.
Inlet port 3
Outlet port 2
Exhaust port 1



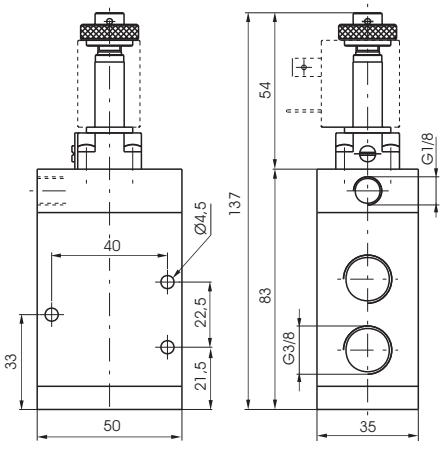
Weight 360 g
Attention: for the Normally open version, connect the inlet port to the exhaust port No "3".

Solenoid-Spring

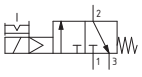
Coding: 779.32.0.Ⓕ.M2

Operational characteristics	
Fluid	filtered and lubricated air or non
Max. working pressure (bar)	10
Minimum pilot pressure (bar)	2,5 (external feeding version) 3 (self feeding version)
Temperature °C	-10 ... +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1800
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

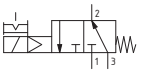
Ⓕ	FUNCTION
	1AC = Self feeding-normally closed
	1C = External feeding-normally closed
	1AA = Self feeding-normally open
	1A = External feeding-normally open



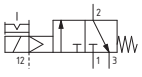
Self feeding - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



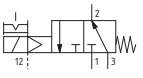
Self feeding - N.O.
Inlet port 3
Outlet port 2
Exhaust port 1



External feeding - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



External feeding - N.O.
Inlet port 3
Outlet port 2
Exhaust port 1



Weight 420 g

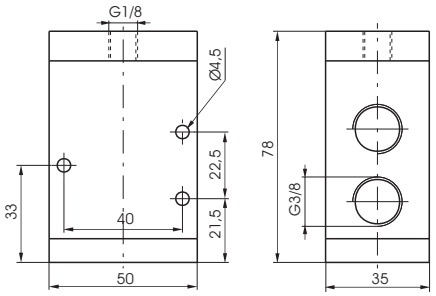
Pneumatic - Spring

Coding: 779/V.32.11.Ⓕ

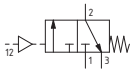
Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2
Temperature °C	-10 ... +70
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	1C = Normally Closed
	1A = Normally Open

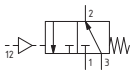
Weight 360 g



N.O.
Exhaust port 1
Outlet port 2
Pump 3



N.C.
Exhaust port 3
Outlet port 2
Pump 1



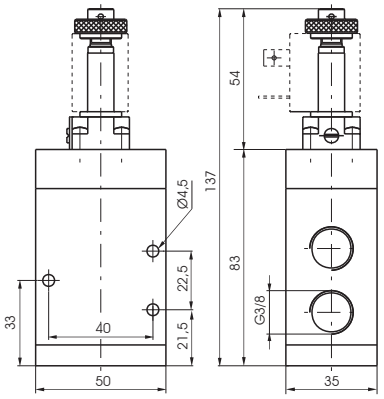
Solenoid-Spring-Internal pilot

Coding: 779/V.32.0.Ⓕ.M2/V

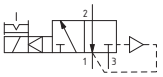
Operational characteristics	
Fluid	Vacuum
Temperature °C	-10 ... +50
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

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

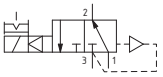
Weight 420 g



N.O.
Exhaust port 3
Outlet port 2
Pump 1



N.C.
Exhaust port 1
Outlet port 2
Pump 3



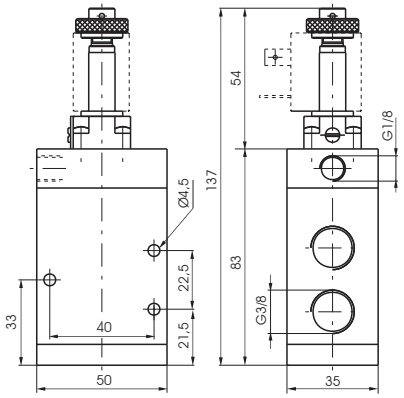
Solenoid-Spring-External pilot

Coding: 779/V.32.0.Ⓕ.M2

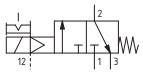
Operational characteristics	
Fluid	Vacuum
Minimum pilot pressure (bar)	2
Temperature °C	-10 ... +50
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	1A = Normally Open
	1C = Normally Closed

Weight 420 g



N.O.
Exhaust port 1
Outlet port 2
Pump 3



N.C.
Exhaust port 3
Outlet port 2
Pump 1