

General

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 (see Series 300). (Coil are not included and have to be ordered separately).

Coil **c** Sus homologated are available (see 300 Series).

Construction characteristics

	G 3/8"	G 1/2" - G 3/4"	G 1"	G 1 1/2"		
Body	Aluminium	Zinc alloy	Aluminium	Aluminium		
Bottom plates		Alumin	nium			
Actuators	NBR					
Pistons	Aluminium					
Actuators rod	Stainless steel					
Spring	Stainless steel					
Piston seals		NBI	R			
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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.

Check that the operating conditions: pressure, temperature and so on are as suggested.

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.

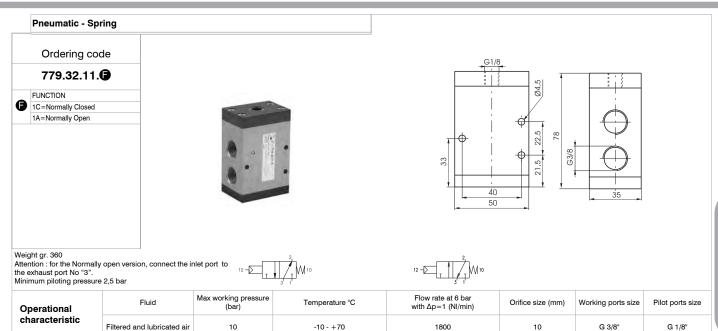
NORMALLY OPEN INTERNAL PILOT

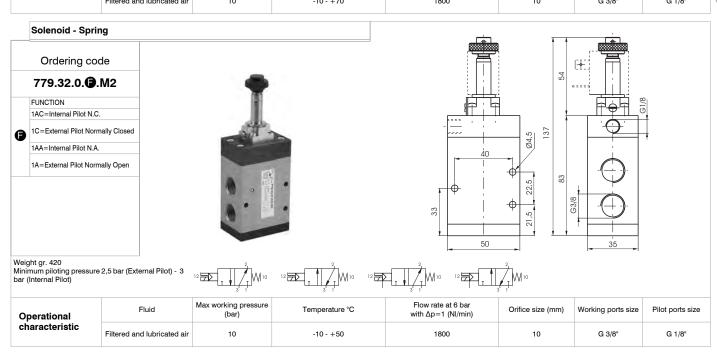
Vacuum valves connections

NORMALLY CLOSED INTERNAL PILOT

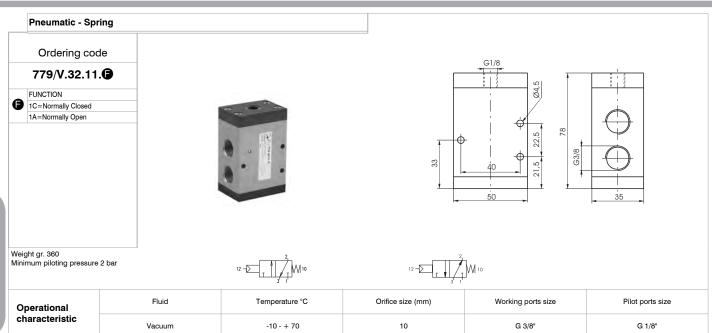
NORMALLY CLOSED IN TERNAL PILOT	NORMALLY OPEN INTERNAL FILOT
779/V.32.0.1AC	779/V.32.0.1AA
773/V.32.0.1AC $P = 1 = EXHAUST$	773/V.32.0.1AA $P = 1 = PUMP$
771/V.32.0.1AC $A = 2 = OUTLET$	771/V.32.0.1AA $A = 2 = OUTLET$
R = 3 = PUMP	R = 3 = EXHAUST
11 = 0 = 1 SIMI	11 = 0 = 2,41,4001
NORMALLY CLOSED EXTERNAL PILOT	NORMALLY OPEN EXTERNAL PILOT
779/V.32.0.1C	779/V.32.0.1A
773/V.32.0.1C	773/V.32.0.1A
771/V.32.0.1C	771/V.32.0.1A
P = 1 = PUMP	P = 1 = EXHAUST
779/V.32.11.1C $A = 2 = OUTLET$	779/V.32.11.1A $A = 2 = OUTLET$
D = 3 = EVHALIGT	D = 2 = DIMD
773/V.32.11.1C	773/V.32.11.1A
771/V.32.11.1C	771/V.32.11.1A

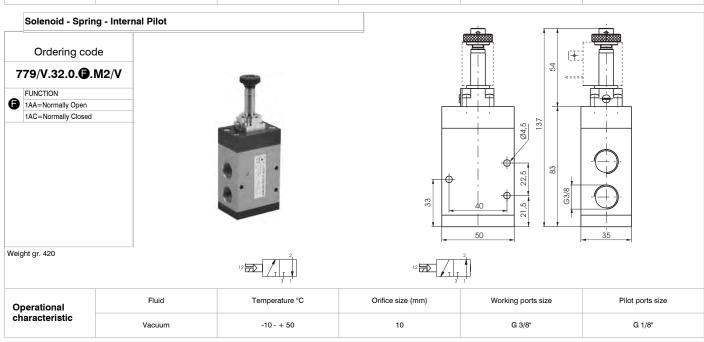


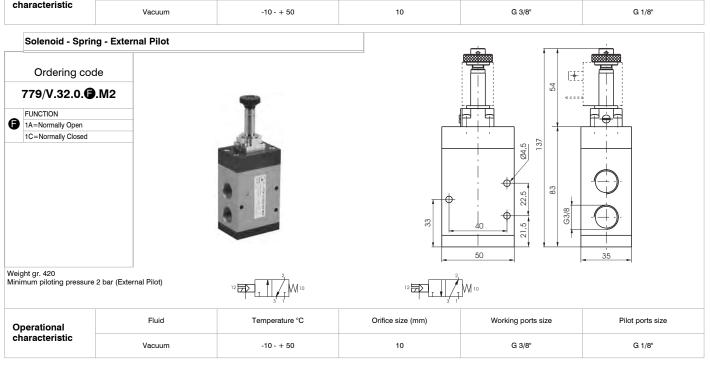










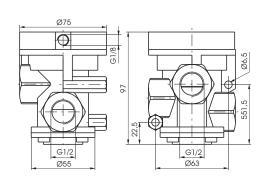


G1/2" for compressed air

Pneumatic - Spring

Ordering code 772.32.11.1C

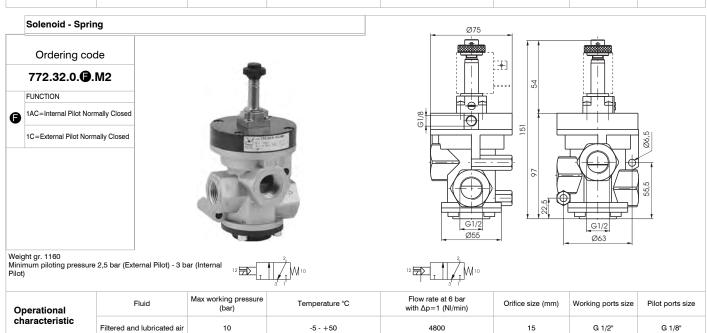




Weight gr. 1100 Normally Closed Minimum piloting pressure 2,5 bar



Operational	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size	ı
characteristic	Filtered and lubricated air	10	-5 - +70	4800	15	G 1/2"	G 1/8"	



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Ordering code

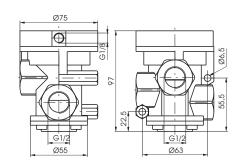
772/V.32.11.

FUNCTION

1C=Normally Closed

1A=Normally Open





Weight gr. 1100 Minimum piloting pressure 2 bar





Operational	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
characteristic	Vacuum	-5 - + 70	15	G 1/2"	G 1/8"

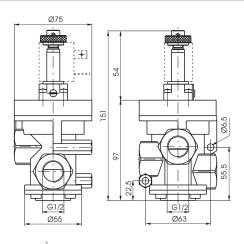
Solenoid - Spring - Internal Pilot

Ordering code

772/V.32.0. **3**.M2/V

FUNCTION
1AA=Normally Open
1AC=Normally Closed





Weight gr. 1160

Fluid

Vacuum

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Temperature °C

-5 - + 50

• 1				
Orifice size (mm)	Working ports size	Pilot ports size		
15	G 1/2"	G 1/8"		

Solenoid - Spring - External Pilot

Ordering code

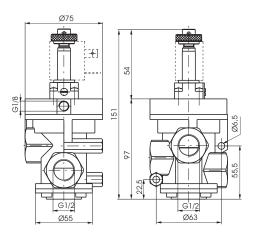
Operational characteristic

772/V.32.0. **3**.M2

FUNCTION

1A=Normally Open
1C=Normally Closed





Weight gr. 1160 Minimum piloting pressure 2 bar (External Pilot)



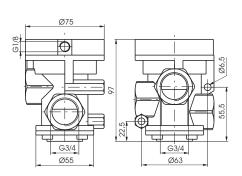


Operational	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
characteristic	Vacuum	-5 - + 50	15	G 1/2"	G 1/8"



Ordering code 773.32.11.1C

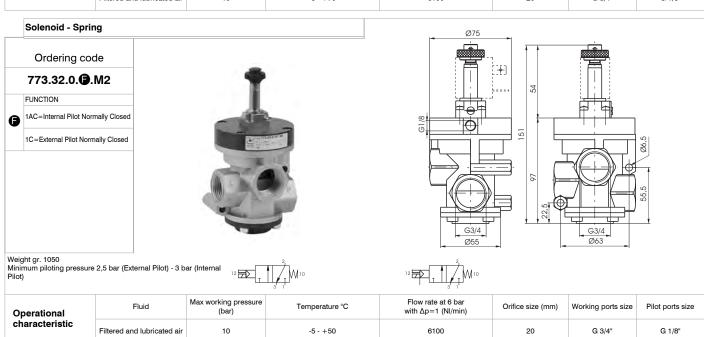




Weight gr. 990

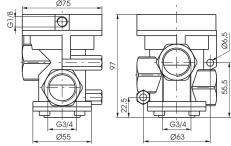
Normally Closed Minimum piloting pressure 2,5 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size	
	Filtered and lubricated air	10	-5 - +70	6100	20	G 3/4"	G 1/8"	ľ







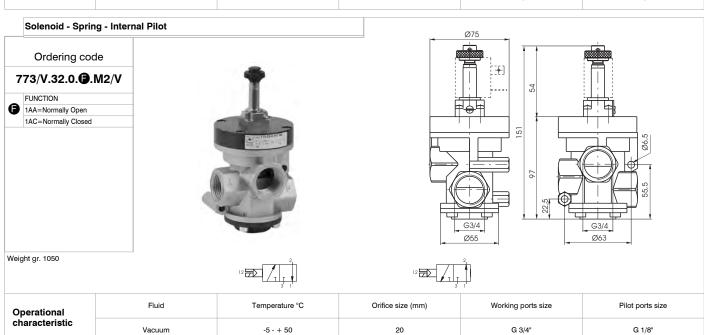


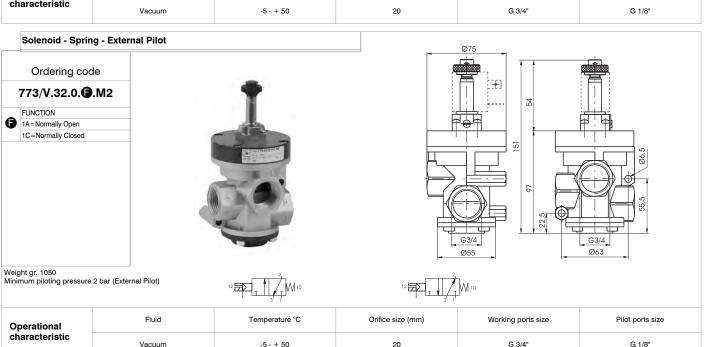
Weight gr. 990 Minimum piloting pressure 2 bar





Operational	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
characteristic	Vacuum	-5 - + 70	20	G 3/4"	G 1/8"





Vacuum

-5 - + 50

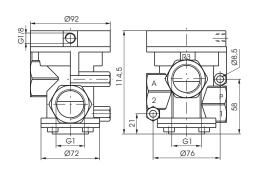




Ordering code

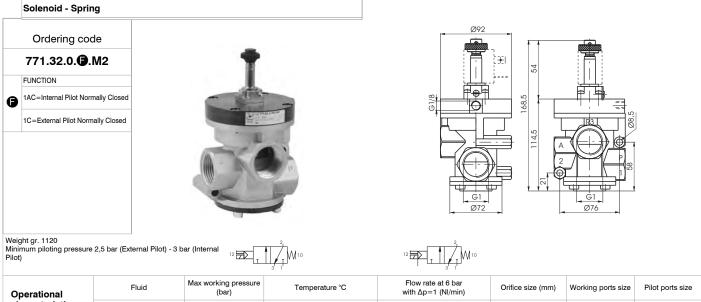
771.32.11.1C





Weight gr. 1060 Normally Closed Minimum piloting pressure 2 ,5 bar

Operational	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size	ı
characteristic	Filtered and lubricated air	10	-5 - +70	12000	25	G 1"	G 1/8"	



Operational	Fluid	(bar)	Temperature *C	with $\Delta p=1$ (NI/min)	Orifice size (mm)	working ports size	Pilot ports size
characteristic	Filtered and lubricated air	10	-5 - +50	12000	25	G 1"	G 1/8"





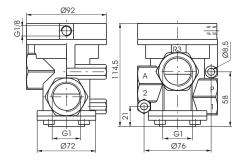
Ordering code

771/V.32.11.

FUNCTION

1C=Normally Closed 1A=Normally Open





Weight gr. 1060 Minimum piloting pressure 2 bar





Operational	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
characteristic	Vacuum	-5 - + 70	25	G 1"	G 1/8"

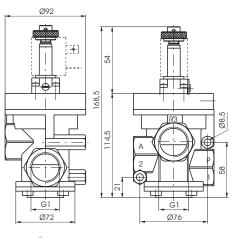
Solenoid - Spring - Internal Pilot

Ordering code

771/V.32.0. **3**.M2/V

FUNCTION 1AA=Normally Open 1AC=Normally Closed





Weight gr. 1120 12

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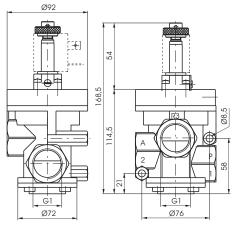
Operational	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
characteristic	Vacuum	-5 - + 50	25	G 1"	G 1/8"

Solenoid - Spring - External Pilot

Ordering code

FUNCTION 1A=Normally Open 1C=Normally Closed





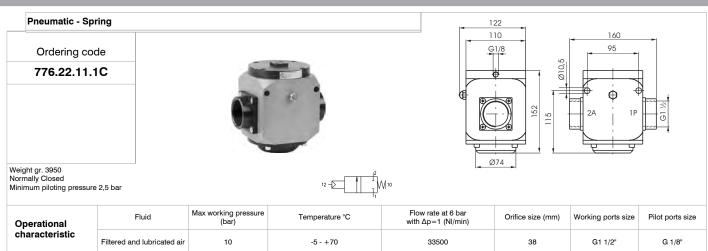
Weight gr. 1120 Minimum piloting pressure 2 bar (External Pilot)

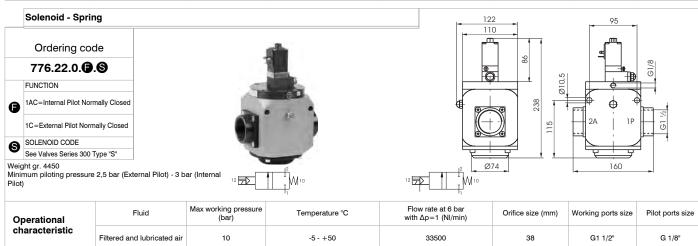




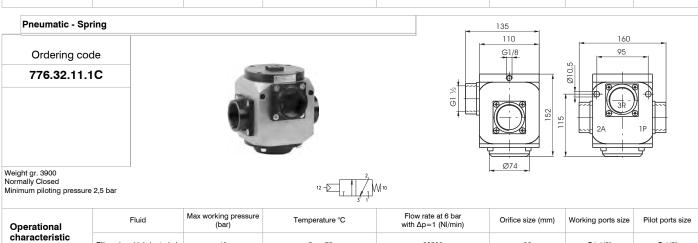
Operational characteristic	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 - + 50	25	G 1"	G 1/8"

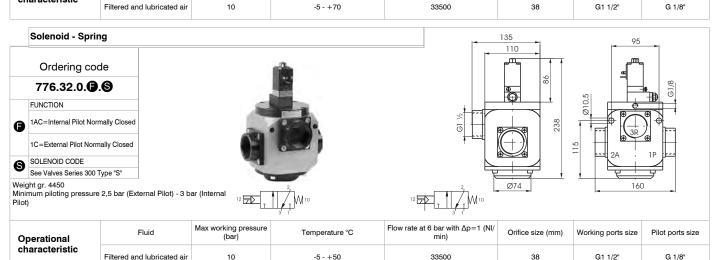




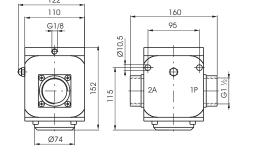


Operational	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size	
characteristic	Filtered and lubricated air	10	-5 - +50	33500	38	G1 1/2"	G 1/8"	





Series 700



Weight gr. 3950 Normally Closed Minimum piloting pressure 2 bar



Operational characteristic	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 - + 70	38	G1 1/2"	G 1/8"

Solenoid - Spring

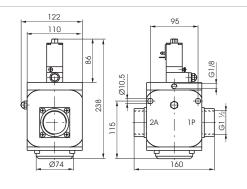
Ordering code

776/V.22.0.1C. S

SOLENOID CODE
See Valves Series 300 Type "S"

Weight gr. 4450 External Pilot Normally Closed Minimum piloting pressure 2 bar





Operational	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
characteristic	Vacuum	-5 - + 50	38	G1 1/2"	G 1/8"

