

## POPPET VALVES AIR/VACUUM


### Series 700

#### General

Our main concern in constructing these poppet type valves and solenoid valves is reliability. Poppet type valves, as opposed to spool type valves, offer superior resistance to adverse operating conditions, such as dust particles in the compressed air and insufficient lubrication, and provide the only alternative for use in "at risk" systems.

One of the qualities of this type of valves is its change-over speed, which, because of the quick poppet travel, is always at least twice that of the spool type. These valves are not bistable and do not operate with closed centers. Therefore, the pilot signal must remain on as long as the valve is being commutated. The air flow inlet/outlet and exhaust ports are mandatory and do not allow normally closed (N.C.) or normally open (N.O.) 3 way valve as do the spool type valves. It is possible to have a 2 way valve without exhaust by plugging port 3 of a 3 way valve.

**Ordering codes are referred to solenoid valves with M2 assembled (see Series 300, section 1). (Coils are not included and have to be ordered separately).**

Coils  **US** homologated are available (see 300 Series)

#### Construction characteristics

STD

STD

G 1/8" ÷ G 1/4"

Body	Anodized aluminium
Actuators	Anodized aluminium
Spool	Hardened nickel plated steel
Seals	Polyurethane + Nitrile
Spacers	Brass
Springs	Stainless steel AISI 302



#### Use and maintenance


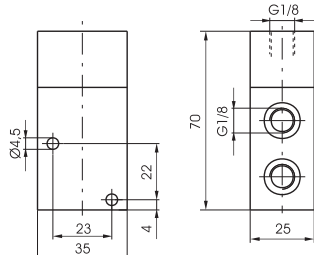

These valves are a mean life of 10 to 15 millions of cycles depending on application. Proper lubrication with specified oil reduces dramatically the wear of the seals as well as a good filtration ensures long and trouble free operating. Check that the operating conditions are according to the suggested pressure, temperature and so on. The exhaust ports of the distributor have to be protected in a dusty and dirty environment. A spare parts kit including the spool complete of with seals and actuators is available for overhauling the valve. This simple operation does not require a skilled worker. Although particular care is needed for assembling the valve.

**ATTENTION:** use hydraulic oil class H for lubrication such as MAGNAGC 32 (Castrol).




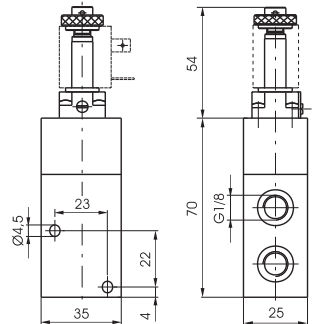

## Pneumatic - Spring

3/2

Ordering code		STD						
778.32.11.F								
F	FUNCTION							
	1C = normally closed 1A = normally open							
Weight gr. 170 Minimum working pressure 2,5 bar								
								
Operational characteristic	Fluid	Max working pressure	Operating Temperature		Flow rate at 6 bar with $\Delta p=1$	Orifice size	Working port size	Pilot port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +70°C	840 NI/min	mm 6	G 1/8"	G 1/8"


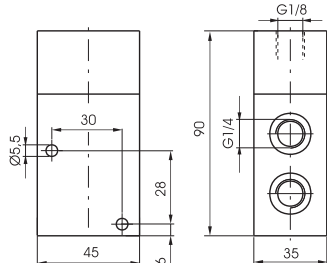

## Solenoid - Spring

3/2

Ordering code								
778.32.0.F.M2								
F	FUNCTION							
	1C = normally closed 1A = normally open							
		STD	STD					
Weight gr. 240 Minimum working pressure 3 bar								
Operational characteristic	Fluid	Max working pressure	Operating Temperature		Flow rate at 6 bar with Δp=1	Orifice size	Working port size	Pilot port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	840 NI/min	mm 6	G 1/8"	G 1/8"

## Pneumatic - Spring

3/2

Ordering code							
774.32.11.F							
F	FUNCTION						
	1C = normally closed 1A = normally open						
		STD					
Weight gr. 395 Minimum working pressure 2,5 bar							
							
Operational characteristic	Fluid	Max working pressure	Operating Temperature	Flow rate at 6 bar with $\Delta p=1$	Orifice size	Working port size	Pilot port size
	Filtered and lubricated air	10 bar	Min. -5°C Max. +70°C	1560 Nl/min	mm 8	G 1/4"	G 1/8"

Technical modifications keep in reserve !

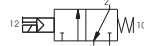

(2010/10)

Solenoid - Spring

3/2

Ordering code		
<b>774.32.0.F.M2</b>		
FUNCTION		
1C = normally closed 1A = normally open		
	STD	STD

Weight gr. 460  
Minimum working pressure 3 bar



Operational characteristic	Fluid	Max working pressure	Operating Temperature		Flow rate at 6 bar with Δp=1	Orifice size	Working port size	Pilot port size
	Filtered and lubricated air	10 bar	Min. -5°C	Max. +50°C	1560 NI/min	mm 8	G 1/4"	G 1/8"




## 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 operation, 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  homologated are available (see 300 Series).

## Construction characteristics

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

## 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 than the required consumption flow rate, otherwise is better choose the external pilot version.

## Vacuum valves connections

### NORMALLY CLOSED INTERNAL PILOT

779/V.32.0.1AC

773/V.32.0.1AC P = 1 = EXHAUST

771/V.32.0.1AC A = 2 = OUTLET

R = 3 = PUMP

### NORMALLY OPEN INTERNAL PILOT

779/V.32.0.1AA

773/V.32.0.1AA P = 1 = PUMP

771/V.32.0.1AA A = 2 = OUTLET

R = 3 = EXHAUST

### NORMALLY CLOSED EXTERNAL PILOT

779/V.32.0.1C

773/V.32.0.1C

771/V.32.0.1C

P = 1 = PUMP

A = 2 = OUTLET

R = 3 = EXHAUST

779/V.32.11.1C

773/V.32.11.1C

771/V.32.11.1C

### NORMALLY OPEN EXTERNAL PILOT

779/V.32.0.1A

773/V.32.0.1A

771/V.32.0.1A

P = 1 = EXHAUST














































A = 2 = OUTLET

R = 3 = PUMP

779/V.32.11.1A

773/V.32.11.1A

771/V.32.11.1A

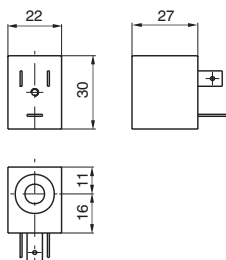
		Symbol	Description	Code	Max. pressure	Flow at 6 bar, Δp=1	Orifice size	
G3/8"	air		Pneumatic - Spring N.O.	779.32.11.1A	2,5-10 bar	1800NI/min	mm 10	
			Pneumatic - Spring N.C. STD	779.32.11.1C	2,5-10 bar			
			Solenoid - Spring, internal pilot N.C. STD	779.32.0.1AC.M2	3-10 bar			
			Solenoid - Spring external pilot N.C.	779.32.0.1C.M2	2,5-10 bar			
			Solenoid - Spring, internal pilot N.O. STD	779.32.0.1AA.M2	3-10 bar			
	vacuum		Solenoid - Spring external pilot N.O.	779.32.0.1A.M2	2,5-10 bar	/		
			Pneumatic - Spring N.O.	779/V.32.11.1A	min.2 bar			
			Pneumatic - Spring N.C. STD	779/V.32.11.1C	min.2 bar			
			Solenoid - Spring, internal pilot N.O.	779/V.32.0.1AA.M2/V	min.2 bar			
			Solenoid - Spring, internal pilot N.C. STD	779/V.32.0.1AC.M2/V	min.2 bar			
G 1/2"	air		Pneumatic - Spring N.C. STD	772.32.11.1C	2,5-10 bar	/	mm 15	
			Solenoid - Spring, internal pilot N.C. STD	772.32.0.1AC.M2	3-10 bar			
			Solenoid - Spring, external pilot N.C.	772.32.0.1C.M2	2,5-10 bar			
	vacuum		Pneumatic - Spring N.O.	772/V.32.11.1A	min.2 bar	/		
			Pneumatic - Spring N.C. STD	772/V.32.11.1C	min.2 bar			
			Solenoid - Spring, internal pilot N.O.	772/V.32.0.1AA.M2/V	/			
			Solenoid - Spring, internal pilot N.C. STD	772/V.32.0.1AC.M2/V				
			Solenoid - Spring, external pilot N.O. STD	772/V.32.0.1A.M2	min.2 bar			
			Solenoid - Spring, external pilot N.C. STD	772/V.32.0.1C.M2				
			Solenoid - Spring, external pilot N.C. STD	772/V.32.0.1C.M2				
G3/4"	air		Pneumatic - Spring N.C. STD	773.32.11.1C	2,5-10 bar	6100NI/min	mm 20	
			Solenoid - Spring, internal pilot N.C. STD	773.32.0.1AC.M2	3-10 bar			
			Solenoid - Spring, external pilot N.C.	773.32.0.1C.M2	2,5-10 bar			
	vacuum		Pneumatic - Spring N.O.	773/V.32.11.1A	min.2 bar	/		
			Pneumatic - Spring N.C. STD	773/V.32.11.1C	min.2 bar			
			Solenoid - Spring, internal pilot N.O.	773/V.32.0.1AA.M2/V	/			
			Solenoid - Spring, internal pilot N.C. STD	773/V.32.0.1AC.M2/V				
G1"	air		Pneumatic - Spring N.C. STD	771.32.11.1C	2,5-10 bar	12000NI/min	mm 25	
			Solenoid - Spring, internal pilot N.C. STD	771.32.0.1AC.M2	3-10 bar			
			Solenoid - Spring, external pilot N.C.	771.32.0.1C.M2	2,5-10 bar			
	vacuum		Pneumatic - Spring N.O.	771/V.32.11.1A	min 2 bar	/		
			Pneumatic - Spring N.C. STD	771/V.32.11.1C	min 2 bar			
		Solenoid - Spring, internal pilot N.O.	771/V.32.0.1AA.M2/V	/				
		Solenoid - Spring, internal pilot N.C.	771/V.32.0.1AC.M2/V					
G 1 1/2"	air		Pneumatic - Spring N.C.	776.22.11C	2,5-10 bar	33500NI/min		mm 38
			Solenoid - Spring, internal pilot N.C.	776.22.0.1AC.S*	3-10 bar			
			Solenoid - Spring, external pilot N.C.	776.22.0.1C.S*	2,5-10 bar			
			Pneumatic - Spring N.C.	776.32.11.1C	2,5-10 bar			
			Solenoid - Spring, internal pilot N.C.	776.32.0.1AC.S*	3-10 bar			
			Solenoid - Spring, external pilot N.C.	776.32.0.1C.S*	2,5-10 bar			
	vacuum		Pneumatic - Spring N.C.	776/V.22.11.1C	min 2 bar	/		
			Solenoid - Spring, external pilot N.C.	776/V.22.0.1C.S*				
	Pneumatic - Spring N.O.	776/V.32.11.1A						
	Pneumatic - Spring N.C.	776/V.32.11.1C						
	Solenoid - Spring, external pilot N.O.	776/V.32.0.1A.S*						
	Solenoid - Spring, external pilot N.C.	776/V.32.0.1C.S*						
	Solenoid - Spring, external pilot N.C.	776/V.32.0.1C.S*						
	Solenoid - Spring, external pilot N.C.	776/V.32.0.1C.S*						

Technical modifications keep in reserve !

(2010/10)

## Coil

Coil type U1



Weight 54 gr.

\* Use only with M2/9

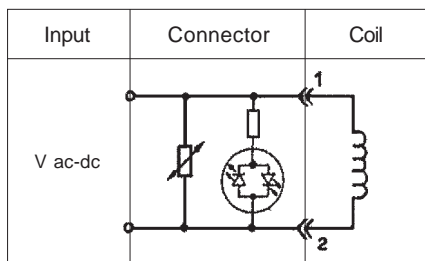
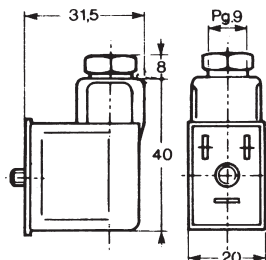
Ordering code	Available voltages Coils	
<b>MB 4</b>	12 D.C.	<b>STD</b>
<b>MB 5</b>	24 D.C.	<b>STD</b>
<b>MB 6</b>	48 D.C.	<b>STD</b>
<b>MB 9*</b>	24 D.C. (2 Watt) (Direct current, low consumption)	
<b>MB 17</b>	24/50	<b>STD</b>
<b>MB 21</b>	48/50	<b>STD</b>
<b>MB 22</b>	110/50	<b>STD</b>
<b>MB 24</b>	230/50	<b>STD</b>
<b>MB 37</b>	24/60	Alternating current 60 Hz
<b>MB 39</b>	110/60	
<b>MB 41</b>	230/60	
<b>MB 56</b>	24/50-60	Alternating current 50/60 Hz
<b>MB 57</b>	110/50-60	
<b>MB 58</b>	230/50-60	
<b>MB 66</b>	24/50-60	Alternating current (low consumption) 50/60 Hz
<b>MB 67</b>	110/50-60	
<b>MB 68</b>	230/50-60	

## Connector for coil (DIN 43650)



Ordering code	Supply voltage until	Coil type	Protection class	Remarks
<b>MP1</b>	0-250V~/300V=	U1	IP 65	CONNECTOR
<b>MP1-LED-24V</b>	24V	U1	IP 65	+LED
<b>MP1-LED-24V-5M</b>	24V	U1	IP 65	+LED+CABLE
<b>MP1-LED-230V</b>	230V	U1	IP 65	+LED

## Electronic circuit for MP-LED



Bipolar LED and VDR to protect supply and switch.  
(The energy in the coil is limited by the VDR).  
Voltage: 24 or 230V.





The components illustrated and described in the present catalogue are sold under the trademark **PNEUMAX**. Sales in Italy and abroad are handled through the organization indicated in the "**Sales network pages**". The overall dimensions and technical information are provided solely for information reasons and may be subject to change without notice.

Pneumatic - Spring


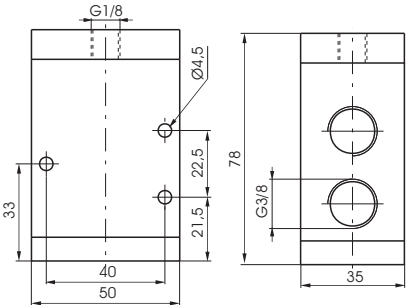
Ordering code

779.32.11.F

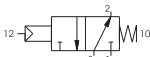
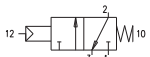
FUNCTION

1C=Normally Closed

1A=Normally Open

Weight gr. 360  
Attention : for the Normally open version, connect the inlet port to the exhaust port No "3".  
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	-10 - +70	1800	10	G 3/8"	G 1/8"

Solenoid - Spring

Ordering code

779.32.0.F.M2


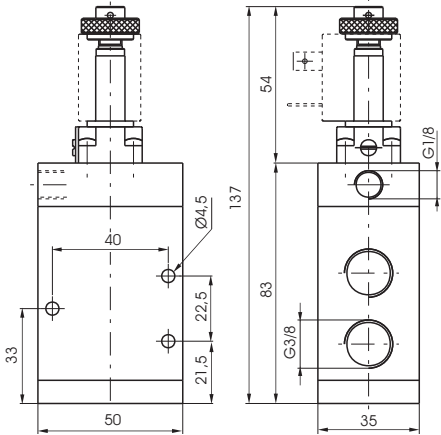
FUNCTION

1AC=Internal Pilot N.C.

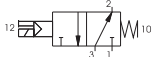
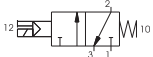
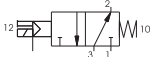
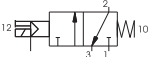
1C=External Pilot Normally Closed

1AA=Internal Pilot N.A.

1A=External Pilot Normally Open

Weight gr. 420  
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

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	-10 - +50	1800	10	G 3/8"	G 1/8"

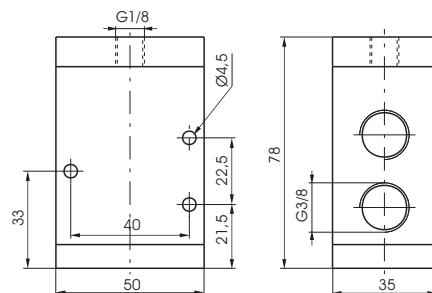
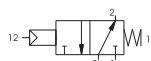
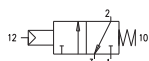


### Pneumatic - Spring

Ordering code

**779/V.32.11.F**

FUNCTION

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

Weight gr. 360  
Minimum piloting pressure 2 bar


#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-10 - + 70

10

G 3/8"

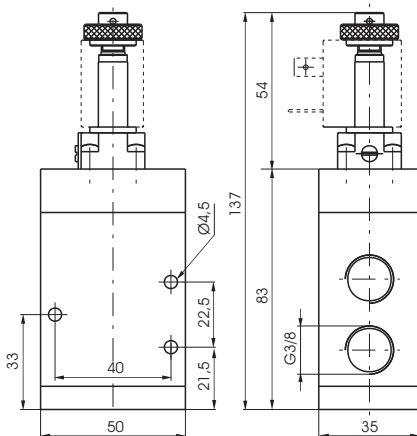
G 1/8"

### Solenoid - Spring - Internal Pilot

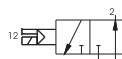
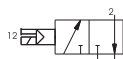
Ordering code

**779/V.32.0.F.M2/V**

FUNCTION

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


Weight gr. 420



#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-10 - + 50

10

G 3/8"

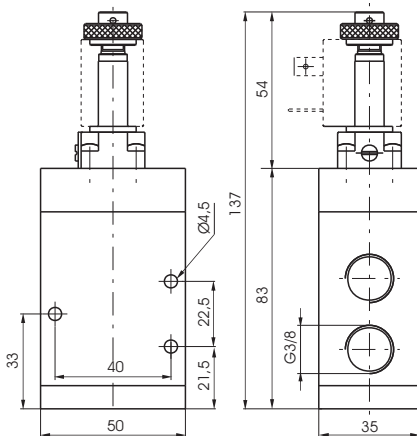
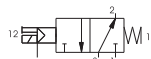
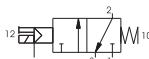
G 1/8"

### Solenoid - Spring - External Pilot

Ordering code

**779/V.32.0.F.M2**

FUNCTION

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

Weight gr. 420  
Minimum piloting pressure 2 bar (External Pilot)


#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-10 - + 50

10

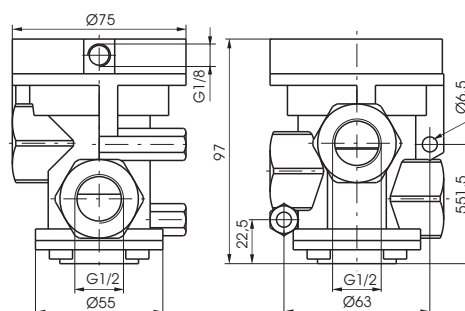
G 3/8"

G 1/8"

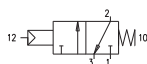
### Pneumatic - Spring

Ordering code

772.32.11.1C



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



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

## Solenoid - Spring

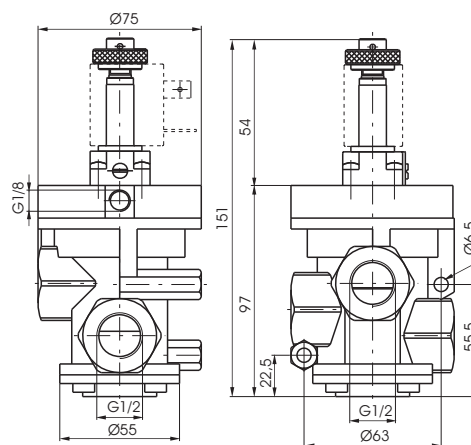
Ordering code

772.32.0.Ⓡ.M2

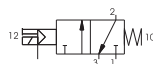
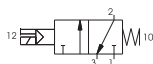
FUNCTION
----------

**F** 1AC=Internal Pilot Normally Closed

1C=External Pilot Normally Closed



Weight gr. 1160  
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)



<b>Operational characteristic</b>	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	4800	15	G 1/2"	G 1/8"

### Pneumatic - Spring

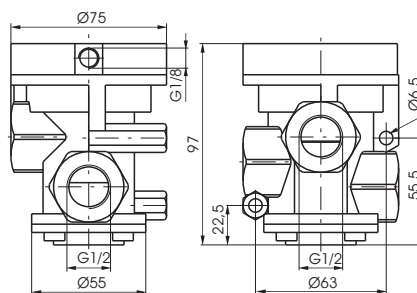
Ordering code

**772/V.32.11.F**

FUNCTION

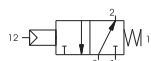
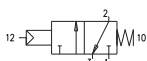
1C=Normally Closed

1A=Normally Open



Weight gr. 1100

Minimum piloting pressure 2 bar



#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +70

15

G 1/2"

G 1/8"

### Solenoid - Spring - Internal Pilot

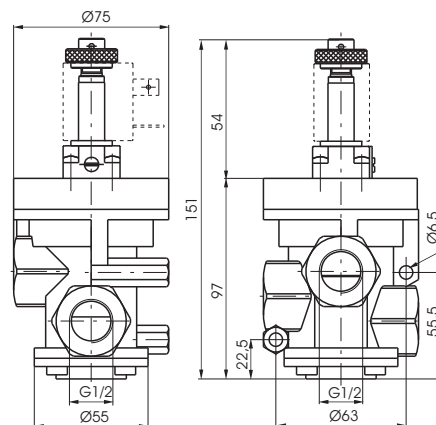
Ordering code

**772/V.32.0.F.M2/V**

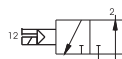
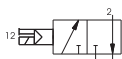
FUNCTION

1AA=Normally Open

1AC=Normally Closed



Weight gr. 1160



#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +50

15

G 1/2"

G 1/8"

### Solenoid - Spring - External Pilot

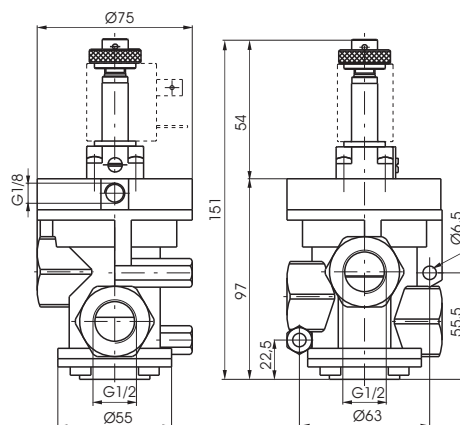
Ordering code

**772/V.32.0.F.M2**

FUNCTION

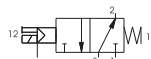
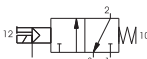
1A=Normally Open

1C=Normally Closed



Weight gr. 1160

Minimum piloting pressure 2 bar (External Pilot)



#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +50

15


G 1/2"

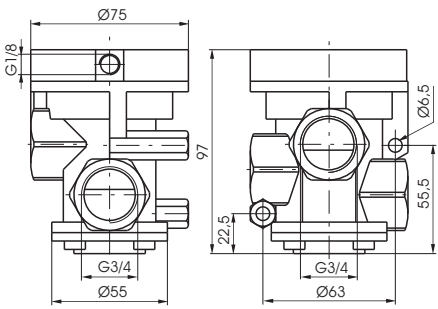
G 1/8"

Pneumatic - Spring

Ordering code

773.32.11.1C

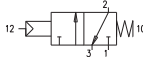




Weight gr. 990

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 (Nl/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"

Solenoid - Spring

Ordering code


773.32.0.F.M2

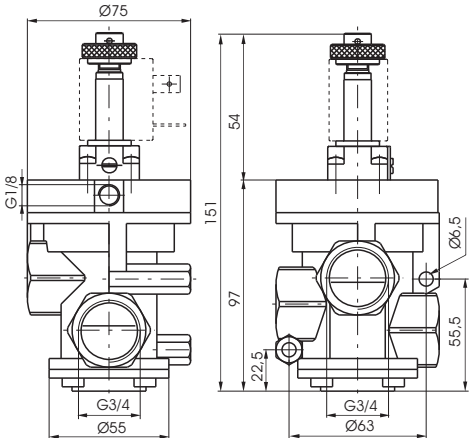
FUNCTION

F

1AC=Internal Pilot Normally Closed

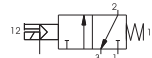
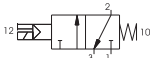
1C=External Pilot Normally Closed





Weight gr. 1050

Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (Nl/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	6100	20	G 3/4"	G 1/8"

### Pneumatic - Spring

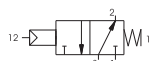
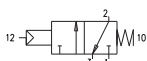
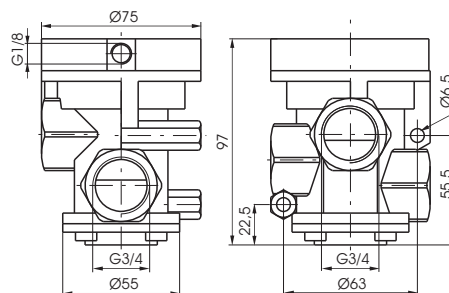
Ordering code

**773/V.32.11.F**

FUNCTION

1C=Normally Closed

1A=Normally Open



Weight gr. 990

Minimum piloting pressure 2 bar

#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +70

20

G 3/4"

G 1/8"

### Solenoid - Spring - Internal Pilot

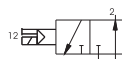
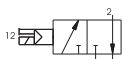
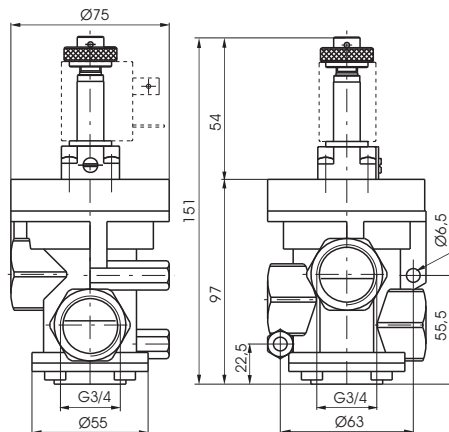
Ordering code

**773/V.32.0.F.M2/V**

FUNCTION

1AA=Normally Open

1AC=Normally Closed



Weight gr. 1050

#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +50

20

G 3/4"

G 1/8"

### Solenoid - Spring - External Pilot

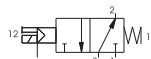
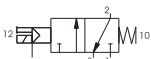
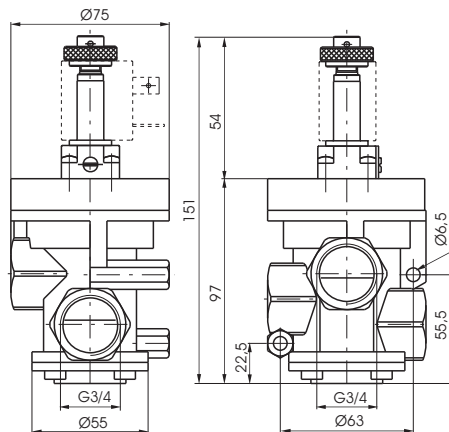
Ordering code

**773/V.32.0.F.M2**

FUNCTION

1A=Normally Open

1C=Normally Closed



Weight gr. 1050

Minimum piloting pressure 2 bar (External Pilot)

#### Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +50

20


G 3/4"

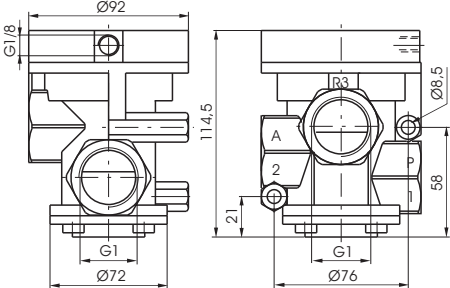
G 1/8"

Pneumatic - Spring

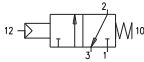
Ordering code

771.32.11.1C





Weight gr. 1060  
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	12000	25	G 1"	G 1/8"

Solenoid - Spring

Ordering code


771.32.0.F.M2

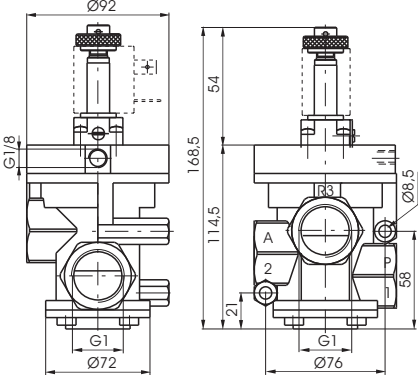
FUNCTION

F

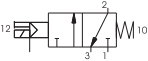
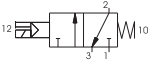
1AC=Internal Pilot Normally Closed

1C=External Pilot Normally Closed





Weight gr. 1120  
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)



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 - +50	12000	25	G 1"	G 1/8"

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice.

2.90

**Pneumatic - Spring**

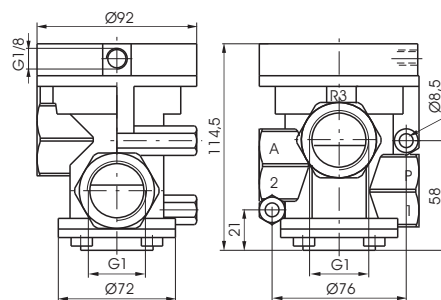
Ordering code

**771/V.32.11.F**

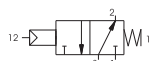
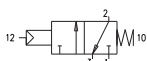
FUNCTION

1C=Normally Closed

1A=Normally Open



Weight gr. 1060  
Minimum piloting pressure 2 bar



**Operational characteristic**

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +70

25

G 1"

G 1/8"

**Solenoid - Spring - Internal Pilot**

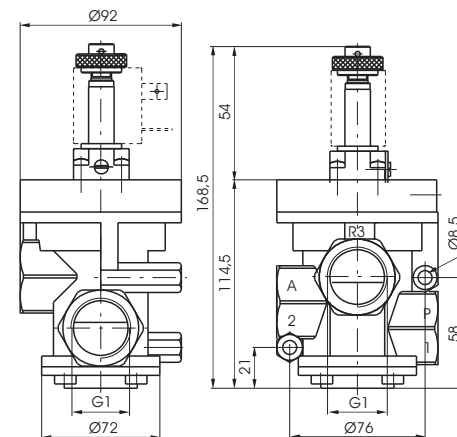
Ordering code

**771/V.32.0.F.M2/V**

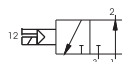
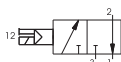
FUNCTION

1AA=Normally Open

1AC=Normally Closed



Weight gr. 1120



**Operational characteristic**

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - +50

25

G 1"

G 1/8"

**Solenoid - Spring - External Pilot**

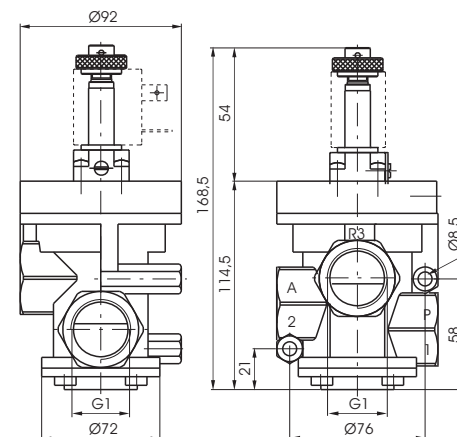
Ordering code

**771/V.32.0.F.M2**

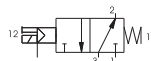
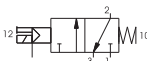
FUNCTION

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

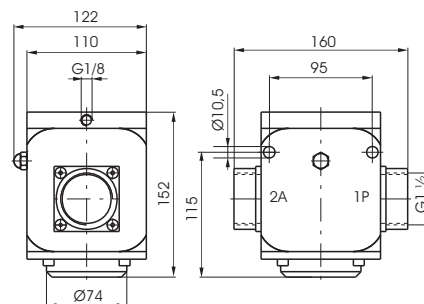
G 1"

G 1/8"

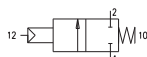
**Pneumatic - Spring**

Ordering code

**776.22.11.1C**



Weight gr. 3950  
Normally Closed  
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +70	33500	38	G1 1/2"	G 1/8"

**Solenoid - Spring**

Ordering code

**776.22.0.F.S**

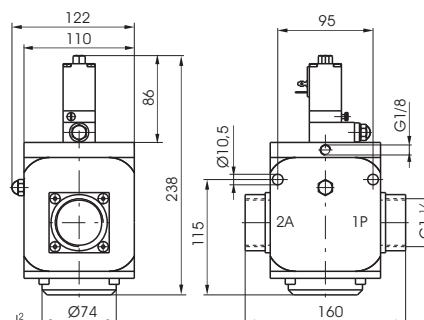
FUNCTION

**F** 1AC=Internal Pilot Normally Closed

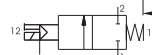
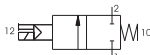
1C=External Pilot Normally Closed

**S** SOLENOID CODE

See Valves Series 300 Type "S"



Weight gr. 4450  
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

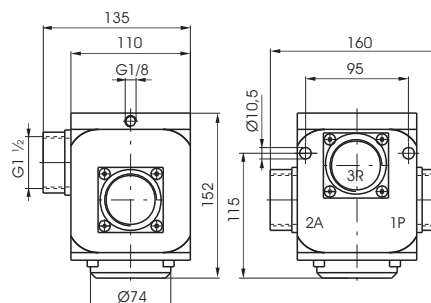


Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	33500	38	G1 1/2"	G 1/8"

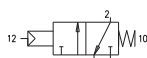
**Pneumatic - Spring**

Ordering code

**776.32.11.1C**



Weight gr. 3900  
Normally Closed  
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +70	33500	38	G1 1/2"	G 1/8"

**Solenoid - Spring**

Ordering code

**776.32.0.F.S**

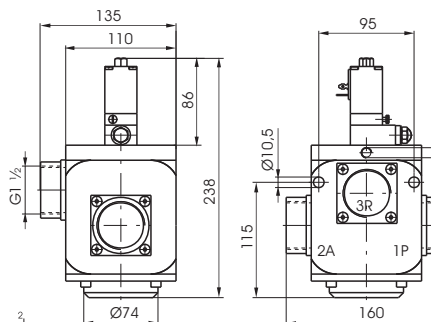
FUNCTION

**F** 1AC=Internal Pilot Normally Closed

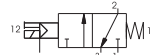
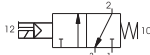
1C=External Pilot Normally Closed

**S** SOLENOID CODE

See Valves Series 300 Type "S"



Weight gr. 4450  
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)



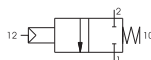
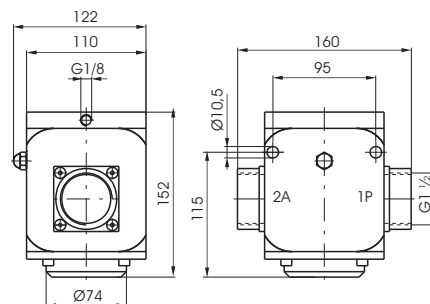
Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	33500	38	G1 1/2"	G 1/8"



## Pneumatic - Spring

Ordering code

**776/V.22.11.1C**



Weight gr. 3950  
Normally Closed  
Minimum piloting pressure 2 bar

### Operational characteristic

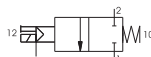
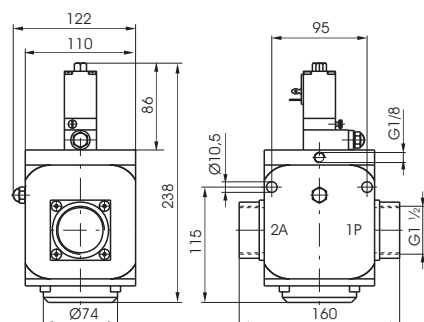
Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-5 - +70	38	G1 1/2"	G 1/8"

## Solenoid - Spring

Ordering code

**776/V.22.0.1C.S**

**S** SOLENOID CODE  
See Valves Series 300 Type "S"



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

### Operational characteristic

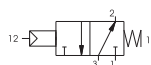
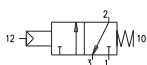
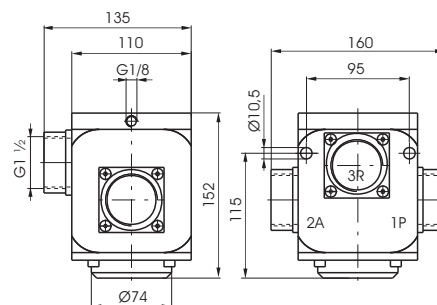
Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-5 - +50	38	G1 1/2"	G 1/8"

## Pneumatic - Spring

Ordering code

**776/V.32.11.F**

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



Weight gr. 3900  
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"

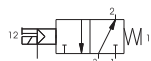
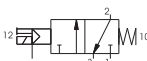
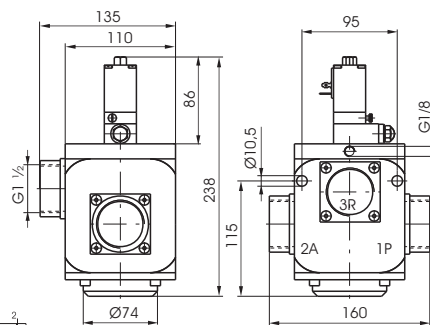
## Solenoid - Spring

Ordering code

**776/V.32.0.F.S**

**F** FUNCTION  
1C=External Pilot Normally Closed  
1A=External Pilot Normally Open

**S** SOLENOID CODE  
See Valves Series 300 Type "S"



Weight gr. 4500  
Minimum piloting pressure 2 bar

### Operational characteristic

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