

#### Series 700 - For compressed air and vacuum

#### 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.

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

Coil R Nus 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
Actuators		NB	R	
Bottom plates		Alumi	nium	
Springs		Stainles	s steel	
Actuators rod		Stainles	s steel	
Pistons		Alumii	nium	
Piston seals		NB	R	

#### 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.

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

Otherwise is better choose the external pilot version.



Pneumatic - Spring		Cod	ing:	779.32.11.
	Operational characteristics		FUNC	CTION
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	6	1C =	Normally Closed
Max working pressure (bar)	10	1	1A =	Normally Open
Minimum piloting pressure (bar)	2,5	1		
Temperature °C	-10 ÷ +70	1		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1800	1		
Orifice size (mm)	10	1		
Working ports size	G3/8"	1		
Pilot ports size	G1/8"	1		

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

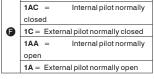


For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1

> M 10 12

#### 779.32.0.**G**.M2 Coding:

## FUNCTION



Internal pilot - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



Internal pilot - N.O. Inlet port 3 Outlet port 2 Outlet port 1



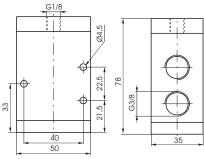
External pilot - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

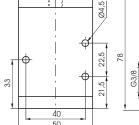


External pilot - N.O. Inlet port 3 Outlet port 2 Outlet port 1

> 12 M 10







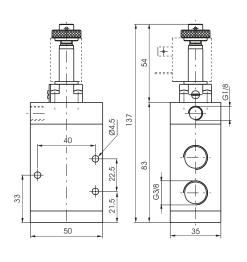
Weight 360 g Attention: for the Normally open version, connect the inlet port to the exhaust port No "3".

#### **Solenoid - Spring**

Operational characteristics				
Fluid Filtered air. No lubrication needed, if applied it shall be cont				
Max working pressure (bar)	10			
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilo version)			
Temperature °C	-10 ÷ +50			
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1800			
Orifice size (mm)	10			
Working ports size	G3/8"			
Pilot ports size	G1/8"			



Weight 420 g

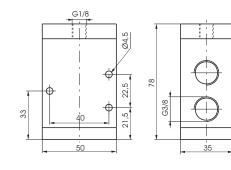












# For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



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



Weight 360 g

### Solenoid-Spring - Internal pilot

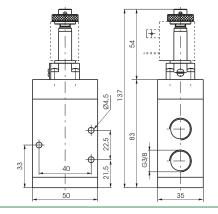
Coding: 7	79/V.32.0. <b>G</b> .M2/V
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Operational characteristics			
Vacuum	6	1AA =	Normally Open
-10 ÷ +50		1AC =	Normally Closed
10			
G3/8"			
G1/8"			
	Vacuum -10 ÷ +50 10 G3/8"	Vacuum           -10÷+50           10           G3/8"	Vacuum         1AA =           -10÷+50         1AC =           10         G3/8"



Weight 420 g





For vacuum - N.O. Outlet port 1 Outlet port 2 . Pump 3



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

Coding:



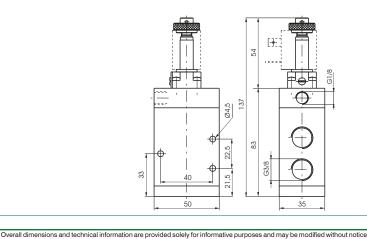
779/V.32.0. **G**.M2

#### Solenoid-Spring - External pilot

•			
Operational characteristics			FUNCTION
Fluid	Vacuum	6	1A = Normally Open
Minimum piloting pressure (bar)	2		1C = Normally Closed
Temperature °C	-10 ÷ +50		
Orifice size (mm)	10		
Working ports size	G3/8"		
Pilot ports size	G1/8"		



Weight 420 g



For vacuum - N.O. Outlet port 1 Outlet port 2 . Pump 3



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



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#### 772.32.11.1C Coding:

### Pneumatic - Spring

Operational characteristics					
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous				
Max working pressure (bar)	10				
Minimum piloting pressure (bar)	2,5				
Temperature °C	-5 ÷ +70				
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4800				
Orifice size (mm)	15				
Working ports size	G1/2"				
Pilot ports size	G1/8"				

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For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

Coding:

FUNCTION 1AC =

closed

W 10 12 -

772.32.0.**6**.M2

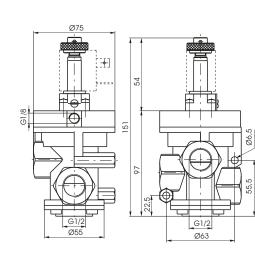
1C = External pilot normally closed

Internal pilot normally

Weight 1100 g Normally Closed

**Solenoid - Spring** 

Operational characteristics				
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	G		
Max working pressure (bar)	10	] •		
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilo version)			
Temperature °C	-5 ÷ +50			
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4800	7		
Orifice size (mm)	15	7		
Working ports size	G1/2"	7		
Pilot ports size	G1/8"	1		



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

Internal pilot - N.C. Inlet port 1 Outlet port 2 . Exhaust port 3

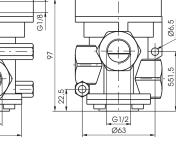


External pilot - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

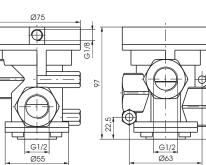
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#### Weight 1160 g

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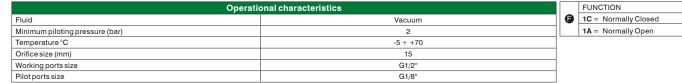




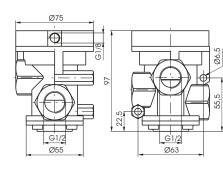




772/V.32.11. 🕞 Coding:







# For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



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



Weight 1100 g

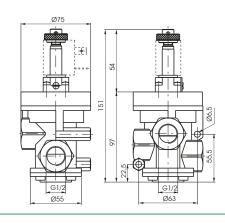
## Solenoid-Spring - Internal pilot

Coding:	772/V.32.0. <b>(</b> ). M2/V
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Operational characteristics			FUNCTION	1
Fluid	Vacuum	6	1AA =	Normally Open
Temperature °C	-5 ÷ +50		1AC =	Normally Closed
Orifice size (mm)	15			
Working ports size	G1/2"			
Pilot ports size	G1/8"			



Weight 1160 g



For vacuum - N.O. Outlet port 1 Outlet port 2 . Pump 3



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

# 12

#### 772/V.32.0. **G**.M2 Coding:

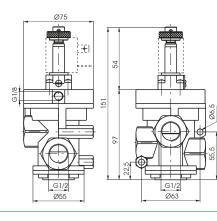
6	FUNCTION
	1A = Normally Open
	1C = Normally Closed

## Solenoid-Spring - External pilot

Operatio		FUNCTION	
Fluid	Vacuum	6	1A = Normally Open
Minimum piloting pressure (bar)	2		1C = Normally Closed
Temperature °C	-5 ÷ +50		
Orifice size (mm)	15		
Working ports size	G1/2"		
Pilot ports size	G1/8"		



Weight 1160 g



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

For vacuum - N.O. Outlet port 1 Outlet port 2 . Pump 3





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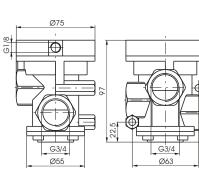


#### 773.32.11.1C Coding:

#### Pneumatic - Spring

Operational characteristics			
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	2,5 bar		
Temperature °C	-5 ÷ +70		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	7000		
Orifice size (mm)	20		
Working ports size	G3/4"		
Pilot ports size	G1/8"		





For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

Coding:

FUNCTION 1AC =

closed

W 10 12 -

773.32.0.**6**.M2

1C = External pilot normally closed

Internal pilot normally

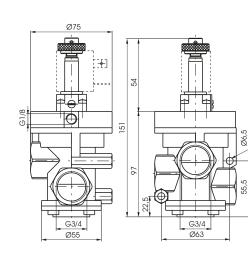
**Solenoid - Spring** 

Weight 990 g Normally Closed

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilo version)	٦L
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	7000	
Orifice size (mm)	20	
Working ports size	G3/4"	
Pilot ports size	G1/8"	

	o (internal pilo version)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	7000
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"





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Internal pilot - N.C. Inlet port 1 Outlet port 2 . Exhaust port 3



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

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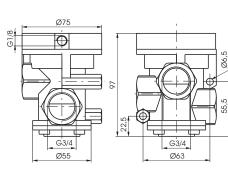
Weight 1050 g



Coding: 773/V.32.11.

Operational characteristics			FUNCTION
Fluid	Vacuum	6	1C = Normally Closed
Minimum piloting pressure (bar)	2		1A = Normally Open
Temperature °C	-5 ÷ +70		
Orifice size (mm)	20		
Working ports size	G3/4"		
Pilot ports size	G1/8"		





#### For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



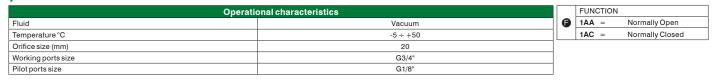
For vacuum - N.C. Exhaust port 3 Outlet port 2 Pump 1



Weight 990 g

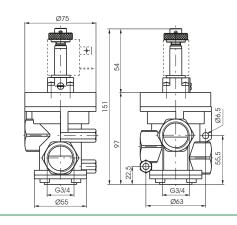
## Solenoid-Spring - Internal pilot

Coding:	773/V.32.0. <b>(</b> ). M2/V
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Weight 1050 g



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



For vacuum - N.C. Outlet port 1 Outlet port 2 Pump 3

Coding:



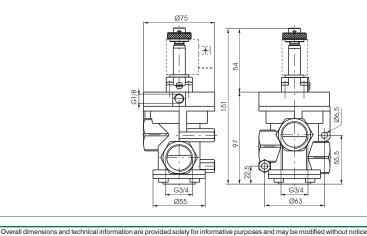
773/V.32.0. **G**.M2

#### Solenoid-Spring - External pilot

Operational characteristics			FUNCTION
Fluid	Vacuum	6	1A = Normally Open
Minimum piloting pressure (bar)	2		1C = Normally Closed
Temperature °C	-5 ÷ +50		
Orifice size (mm)	20		
Working ports size	G3/4"		
Pilot ports size	G1/8"		



Weight 1050 g



For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3





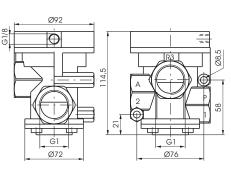


#### Coding: 771.32.11.1C

Pneur	natic - S	pring
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Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	





For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

Coding:

FUNCTION

closed

771.32.0.**6**.M2

1C = External pilot normally closed

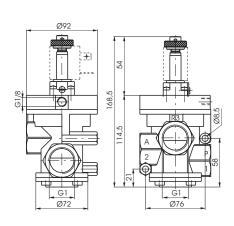
Internal pilot normally

Weight 1060 g Normally Closed

#### Solenoid - Spring

	Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilo version)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	12500	
Orifice size (mm)	25	
Working ports size	G1"	
Pilot ports size	G1/8"	





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Internal pilot - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

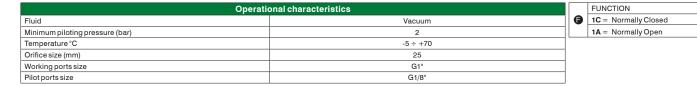


External pilot - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

Weight 1120 g



Coding: 771/V.32.11.





## Solenoid-Spring - Internal pilot

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#### For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



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

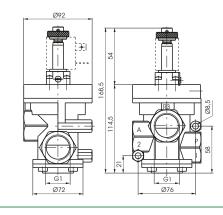


Coding: 771/V.32.0. . M2/V

Operational characteristics			FUNCTION	1
Fluid	Vacuum	6	1AA =	Normally Open
Temperature °C	-5 ÷ +50		1AC =	Normally Closed
Orifice size (mm)	25			
Working ports size	G1"			
Pilot ports size	G1/8"			



Weight 1120 g



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



For vacuum - N.C. Outlet port 1 Outlet port 2 Pump 3

Coding:



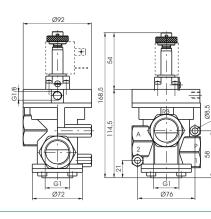
771/V.32.0. **G**.M2

#### Solenoid-Spring - External pilot

		_	
Operational characteristics			FUNCTION
Fluid	Vacuum	F	1A = Normally Open
Minimum piloting pressure (bar)	2		1C = Normally Closed
Temperature °C	-5 ÷ +50		
Orifice size (mm)	25		
Working ports size	G1"		
Pilot ports size	G1/8"		
Orifice size (mm) Working ports size	25 G1"		



Weight 1120 g



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

For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3







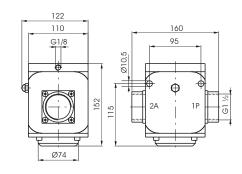
**AIR DISTRIBUTION** 

#### 776.22.11.1C Coding:

#### Pneumatic - Spring

Operational characteristics			
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	2,5		
Temperature °C	-5 ÷ +70		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500		
Orifice size (mm)	38		
Working ports size	G1 1/2"		
Pilot ports size	G1/8"		





For compressed air - N.C. Inlet port 1

Weight 3950 g Normally Closed

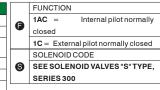
### Solenoid - Spring

Operational characteristics			
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilo version)		
Temperature °C	-5 ÷ +50		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500		
Orifice size (mm)	38		
Working ports size	G1 1/2"		
Pilot ports size	G1/8"		

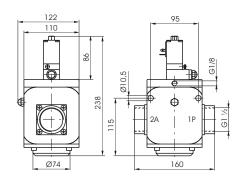
Outlet port 2



#### 776.22.0. Coding:







Internal pilot - N.C. Inlet port 1 Outlet port 2



External pilot - N.C. Inlet port 1 Outlet port 2



776.32.11.1C Coding:

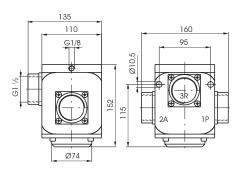
#### **Pneumatic - Spring**

Weight 4450 g

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500	
Orifice size (mm)	38	
Working ports size	G1 1/2"	
Pilot ports size	G1/8"	



Weight 3900 g Normally Closed



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

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3





#### Solenoid - Spring

#### 776.32.0. Coding:

Operational characteristics			FUNCTION	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	6	1AC = Internal pilot normally	
Max working pressure (bar)	10		closed	
Minimum piloting pressure (bar)	2,5 (External pilot version)	1	1C = External pilot normally closed	
1 31 (1)	3 (Internal pilo version)		SOLENOID CODE	
Temperature °C	-5 ÷ +50	6	SEE SOLENOID VALVES "S" TYPE,	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500		SERIES 300	
Orifice size (mm)	38			
Working ports size	G1 1/2"	]		
Pilot ports size	G1/8"	1		

135

110 m

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

G1 ½

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Ø10,5

115

Internal pilot - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

95

160

G1/8

12 M 10

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

12 W 10

**AIR DISTRIBUTION** 





Weight 4450 g

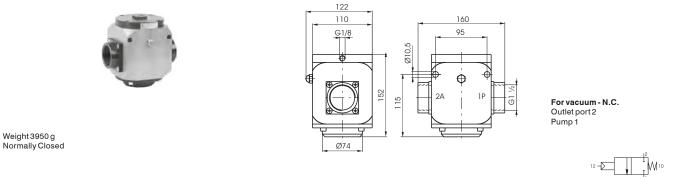
1 | 218



#### 776/V.22.11.1C Coding:

Pneumatic - Spring	
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Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +70	
Orifice size (mm)	38	
Working ports size	G1 1/2"	
Pilot ports size	G1/8"	

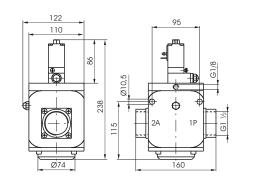


776/V.22.0.1C.S

Solenoid - Spring		Cod	ling:	776/V.22.0.1C. <b>S</b>
Operat	ional characteristics		SOLEN	IOID CODE
Fluid	Vacuum	6	SEE S	DLENOID VALVES "S" TYPE,
Minimum piloting pressure (bar)	2		SERIE	S 300
Temperature °C	-5 ÷ +50			
Orifice size (mm)	38			
Working ports size	G1 1/2"			
Pilot ports size	G1/8"			



Weight 4450 g External pilot normally closed



For vacuum - N.C. Outlet port 2 Pump 1



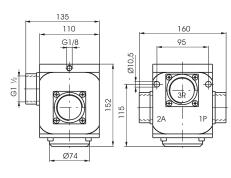
#### 776/V.32.11.6 Coding:

Pneumatic - Spring		Co	odi	ng: 776/V.32.11. 🕒
Of	perational characteristics			FUNCTION
Fluid	Vacuum		<b>)</b>	1C = Normally Closed
Minimum piloting pressure (bar)	2			1A = Normally Open
Temperature °C	-5 ÷ +70			
Orifice size (mm)	38			
Working ports size	G1 1/2"			
Pilot ports size	G1/8"			

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



Weight 3900 g



For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3







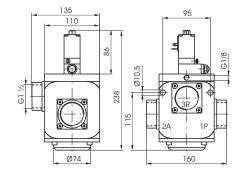
### Solenoid - Spring

### Coding: 776/V.32.0.

Operational characteristics			FUNCTION
Fluid	Vacuum	9	1C = External pilot normally closed
Minimum piloting pressure (bar)	2		1A = External pilot normally open
Temperature °C	-5 ÷ +50		SOLENOID CODE
Orifice size (mm)	38	6	SEE SOLENOID VALVES "S" TYPE,
Working ports size	G1 1/2"		SERIES 300
Pilot ports size	G1/8"		·

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





For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3

W 10

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

12 W 10

Weight 4500 g

1 | 220



### Series N776 - For compressed air and vacuum - G1 1/2"

#### General

The N776 G1.1/2" series of valves and solenoid operated poppet valves is the result of the technical evolution of the 776 series. A rolling diaphragm construction has replaced the previously used piston design ensure lower frictions and longer life. Connection 3 is isolated via a dedicated seal which allow to have the N.O. version as well as the self feed for vacuum which was not available on the 776 series.

The pilot valves are the M3R (CNOMO Stile) with bistable manual override.

Coils are not included and have to be ordered separately (see 300 series, 22mm MB coils and 30mm CNOMO MC coils). Coils **N**us homologated are also available. (See series 300).

#### **Construction characteristics**

Springs	Stainless steel
Pistons	Aluminium (for Air) - Acetylic resin (for Vacuum)
Pin guide	Stainless steel
Diaphragm	NBR oil resistant rubber
Body, operator and end cover	Die-cast aluminium
Seals and poppets	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. 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.

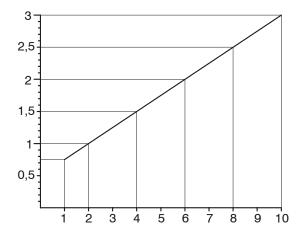
When necessary it is sufficient to clean the internal parts.

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.

#### Minumum working pressure diagram

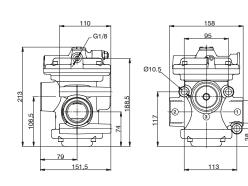
#### for external pilot versions N.C. & N.O.





Operational characteristics				
Fluid Filtered air. No lubrication needed, if applied it shall be continuous				
Max working pressure (bar)	10			
Minimum piloting pressure (bar)	See diagram at general page			
Temperature °C	-5 ÷ +70			
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500			
Orifice size (mm)	38			
Working ports size	G 1 1/2"			
Pilot ports size	G1/8"			





For compressed air - N.C. Inlet port 1 Outlet port 2

2

5



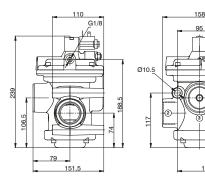
Weight 3560 g Normally Closed

#### Solenoid - Spring

Coding: N776.22.0.

Operational characteristics			FUNCTION	l
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	B	1AC =	Internal pilot normally
Max working pressure (bar)	10		closed	
Minimum piloting pressure (bar)	See diagram at general page (External pilot version) 3,5 (Internal pilot version)		1C = Exter	nal pilot normally closed
Temperature °C	-5 ÷ +50			
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500			
Orifice size (mm)	38			
Working ports size	G 1 1/2"			
Pilot ports size	G1/8"			





Internal pilot - N.C. Inlet port 1 Outlet port 2



External pilot - N.C. Inlet port 1 Outlet port 2

1/2

113

#### 

Coding: N776.32.11.1

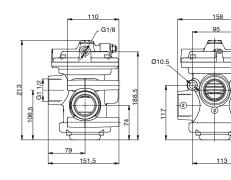
### Pneumatic - Spring

Weight 3620 g

Operational characteristics		
Fluid Filtered air. No lubrication needed, if applied it shall be		
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	See diagram at general page	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	33500	
Orifice size (mm)	38	
Working ports size	G 1 1/2"	
Pilot ports size	G1/8"	



Weight 3550 g Normally closed/Normally open



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

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1

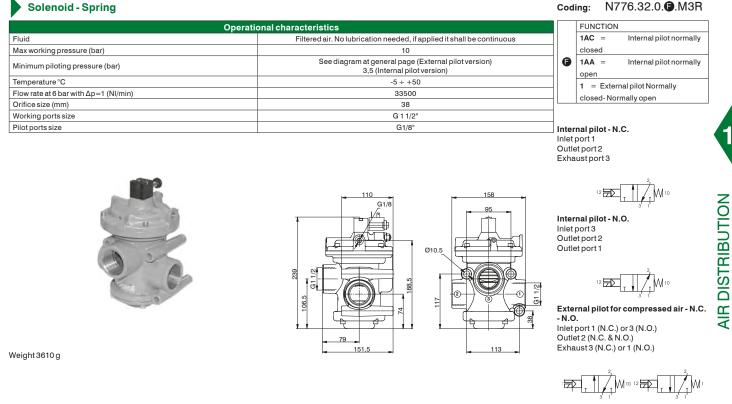


1



1

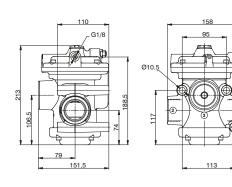
#### Coding: N776.32.0.





Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +70	
Orifice size (mm)	38	
Working ports size	G 1 1/2"	
Pilot ports size	G1/8"	





For vacuum - N.C. Outlet port 2 Pump 1

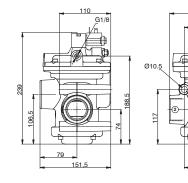


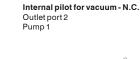
Weight 3178 g Normally Closed

#### Solenoid - Spring

Operational characteristics			FUNCTION
Fluid	Vacuum	A	1AC = Internal pilot normally
Minimum piloting pressure (bar)	2 (External pilot version)		closed
Temperature °C	-5 ÷ +50		1C = External pilot normally closed
Orifice size (mm)	38		
Working ports size	G 1 1/2"		
Pilot ports size	G1/8"		







158

95

113



External pilot for vacuum - N.C. Outlet port 2 Pump 1



#### Coding: N776/V.32.11.1

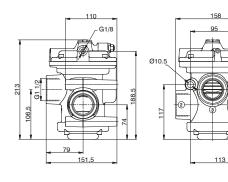
#### Pneumatic - Spring

Weight 3238 g

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2	
Temperature °C	-5 ÷ +70	
Orifice size (mm)	38	
Working ports size	G 1 1/2"	
Pilot ports size	G1/8"	



Weight 3168 g Normally closed/Normally open



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

For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



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

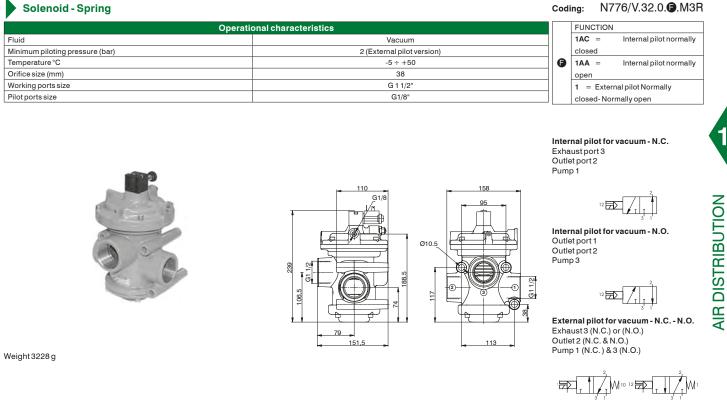
5

W 10 12-5



1

#### N776/V.32.0. . M3R Coding:





#### Series T772-773 - for compressed air and vacuum in technopolymer - G1/2" & G3/4"

#### General

The range of G1/2" and G3/4" pilot and solenoid operated poppet valves are manufactured with high impact resistant thermoplastic. The use of this materiel results in a versatile, lightweight and economical valve.

The traditional piston lip seal has been replaced with a rolling diaphragm, thereby eliminating frictional wear and tear to this seal. The valves (with the exception of certain vacuum models) also features a seal, which separates port 3 from the piston head. The inclusion of this seal has enhanced the valve's performance and allows the valve to be used as normally open (a configuration not possible in the Zama series).

Solenoid operated valves (both internal and external pilot versions) are fitted with a quick exhaust unit, which reduces the return stroke operating time by 60%.

The bulk of the valves in this series use the MP type operator, the exception being internally piloted vacuum models, which use the MV operator. These operators differ from the M2 type in that they have self-tapping mounting screws for use in plastics.

The ordering code are referring to the solenoid valves with mechanics "MP" or "MV" assembled.

Coils are not included and have to be ordered separately (series 300, Section 1, General Catalogue), with the exception of the bistable versions which already include 24V DC Coils (N331.0A).

Coils 🔊 Nus homologated are also available. (See series 300).

#### **Construction characteristics**

Springs	AISI 302 stainless steel
Diaphragm	Oil resistant rubber (NBR)
Body, operator and end cover	High impact resistant thermoplastic
Seals and poppets	NBR
Piston and shaft	Acetal resin

#### 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.

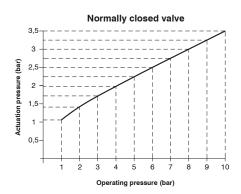
For these products, according to the construction technique and special application, is not required any maintenance with parts replacement.

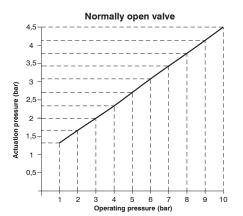
When necessary it is sufficient to clean the internal parts.

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.

#### MINIMUM PILOTING PRESSURE DIAGRAM (Valves for compressed air) PNEUMATIC/SPRING AND EXTERNAL SOLENOID PILOT VERSION







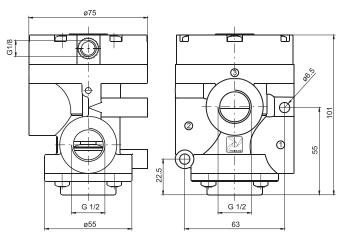
#### Coding: T772.32.11.1

Operational characteristics			
Fluid Filtered air. No lubrication needed, if applied it shall be continuous			
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	See diagram at general page		
Temperature °C	-5 ÷ +50		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4100		
Orifice size (mm)	15		
Working ports size	G1/2"		
Pilot ports size	G1/8"		



Weight 350 g

Pneumatic - Spring





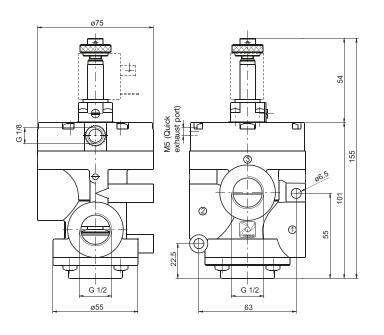
12 -5 M 10

For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1

# Solenoid-Spring - Internal pilot

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	_   G
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4100	
Orifice size (mm)	15	
Working ports size	G1/2"	
Pilot ports size	G1/8"	

Weight 390 g



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

Coding: T772.32.0.

FUNCTION 1AA = Normally Open 1AC = Normally Closed

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1



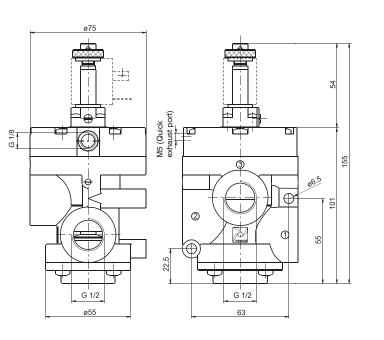


#### Solenoid-Spring - External pilot

#### Coding: T772.32.0.1.MP

Operational characteristics			
Fluid Filtered air. No lubrication needed, if applied it shall be continuou			
Max working pressure (bar)	10		
Minimum piloting pressure (bar) See diagram at general page			
Temperature °C	-5 ÷ +50		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4100		
Orifice size (mm)	15		
Working ports size	G1/2"		
Pilot ports size	G1/8"		





For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

12 M 10

/ W10

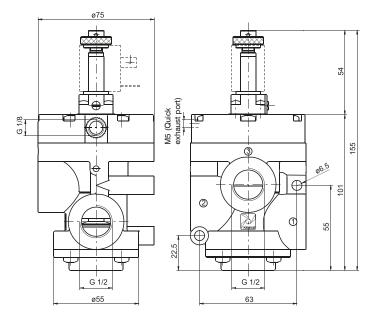
For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1

Weight 390 g

Solenoid-Spring - Internal pilot with o	quick exhaust	Cod	ing:	T772S.32.0 MP
	Operational characteristics		FUNC	TION
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	6	1AA =	<ul> <li>Normally Open</li> </ul>
Max working pressure (bar)	10		1AC :	<ul> <li>Normally Closed</li> </ul>
Minimum piloting pressure (bar)	2,5			
Temperature °C	-5 ÷ +50			
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4100			
Orifice size (mm)	15			
Working ports size	G1/2"			
Pilot ports size	G1/8"			



Weight 390 g



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

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1





1

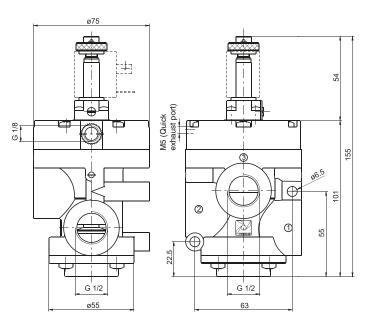
**AIR DISTRIBUTION** 

### Coding: T772S.32.0.1.MP



Operational characteristics			
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	See diagram at general page		
Temperature °C	-5 ÷ +50		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	4100		
Orifice size (mm)	15		
Working ports size	G1/2"		
Pilot ports size	G1/8"		





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

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

12 M 10

For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1



Weight 390 g

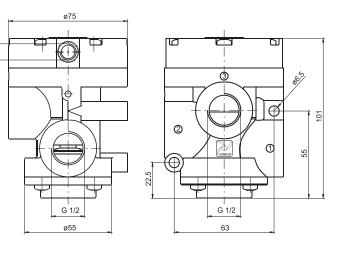


#### Coding: T772/V.32.11.1

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2,5	
Temperature °C	-5 ÷ +50	
Orifice size (mm)	15	
Working ports size	G1/2"	
Pilot ports size	G1/8"	



G 1/8



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

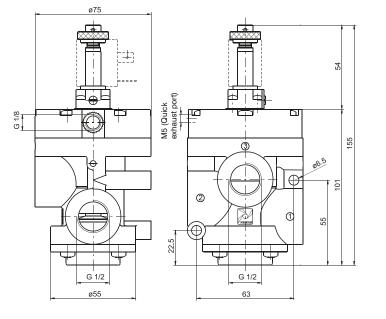


For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3

#### Weight 350 g

Solenoid-Spring - Intern	al pilot		Co	odin	ng: T7	72/V.32.0. <b>@</b> .MV
	Operational chara	acteristics		1	FUNCTION	
Fluid		Vacuum		€ [	1AA =	Normally Open
Temperature°C		-5 ÷ +50			1AC =	Normally Closed
Orifice size (mm)		15				
Working ports size		G1/2"				
Pilot ports size		G1/8"				





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

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



For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



Weight 390 g

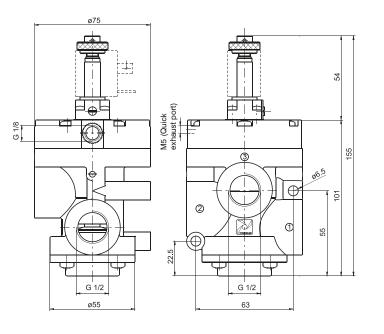


### Coding: T772/V.32.0.1.MP

### Solenoid-Spring - External pilot

Operational characteristics		
Fluid	Vacuum	
Minimum piloting pressure (bar)	2,5	
Temperature°C	-5 ÷ +50	
Orifice size (mm)	15	
Working ports size	G1/2"	
Pilot ports size	G1/8"	





For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3

M 10 12

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



oding: T772/VS.32.0.1.MP

Weight 390 g

Solenoid - Spring - External pilot with quick exhaust		Co	
Operational characteristics			
Fluid	Vacuum		
Minimum piloting pressure (bar)	2,5		
Temperature °C	-5 ÷ +50		
Orifice size (mm)	15		
Working ports size	G1/2"		
Pilot ports size	G1/8"		

ø75



Weight 390 g

1 54 M5 (Quick exhaust port) ЬŢ H ⊕Ł G 1/8 ſΟ Ы 1 155 ٩ 06.5 Ð 101 2 1 55 Œ 22.5 G 1/2 G 1/2 ø55 63

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

For vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



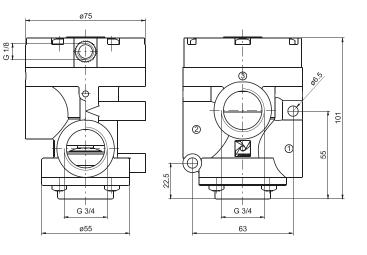




#### Coding: T773.32.11.1

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	See diagram at general page	
Temperature°C	-5 ÷ +50	
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	7500	
Orifice size (mm)	20	
Working ports size	G3/4"	
Pilot ports size	G1/8"	





For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3

12 -W 10

M 10

T773.32.0. **G**.MP

Normally Open

Normally Closed

For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1

12

FUNCTION

1AC

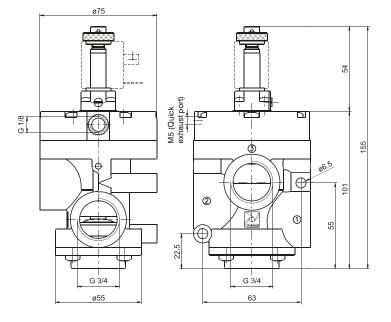
Coding:

### Weight 330 g

#### Solenoid-Spring - Internal pilot

	Operational characteristics		L
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	9	Ļ
Max working pressure (bar)	10		
Minimum piloting pressure (bar)	2,5		
Temperature °C	-5 ÷ +50		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	7500		
Orifice size (mm)	20		
Working ports size	G3/4"		
Pilot ports size	G1/8"		





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

For compressed air - N.C. Inlet port 1 Outlet port 2 Exhaust port 3



For compressed air - N.O. Inlet port 3 Outlet port 2 Outlet port 1



1 | 232

Weight 370 g