

# 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 1 Nus homologated are also available. (See series 300).

Construction characteristics 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.

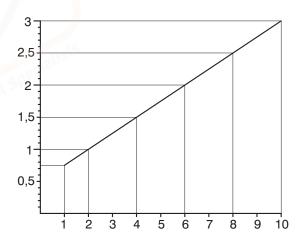
When necessary it is sufficient to clean the internal parts.

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.







#### 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)	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 3560 g Normally Closed

110 G1/8 95 95 95 95 95 151.5

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



N776.22.11.1C

Coding:

#### Solenoid - Spring

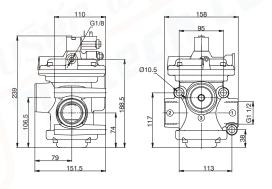
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max working pressure (bar)	10	
Minimum piloting pressure (bar)	See diagram at general page (External pilot version) 3,5 (Internal pilot version)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with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



	FUNCTION	
	1AC =	Internal pilot normally
G	closed	
	1C = External pilot normally closed	



Weight 3620 g



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



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

Coding:



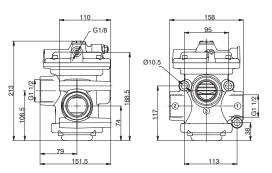
N776.32.11.1

### 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)	See diagram at general page	
Temperature °C	-5 ÷ +70	
Flow rate at 6 bar with Δp=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



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

Weight 3610 g

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 (External pilot version) 3,5 (Internal pilot version)	
Temperature °C	-5 ÷ +50	
Flow rate at 6 bar with Δp=1 (NI/min)	33500	
Orifice size (mm)	38	
Working ports size	G 1 1/2"	
Pilot ports size	G1/8"	

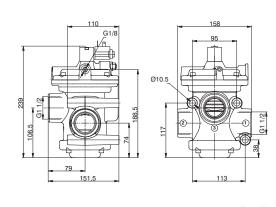
Codi	ing: N	N776.32.0. <b>⑤</b> .M3R
FUNCTION		NC
	1AC =	Internal pilot normally
	closed	
•	1AA =	Internal pilot normally
	open	
	1 = Ex	ternal pilot Normally
1	1	

closed-Normally open

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 for compressed air - N.C. - N.O.
Inlet port 1 (N.C.) or 3 (N.O.)
Outlet 2 (N.C. & N.O.)
Exhaust 3 (N.C.) or 1 (N.O.)







#### **Pneumatic - Spring**

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 3178 g Normally Closed

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

Coding:



N776/V.22.11.1C

# Solenoid - Spring

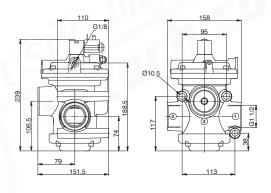
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2 (External pilot version)
Temperature °C	-5 ÷ +50
Orifice size (mm)	38
Working ports size	G 1 1/2"
Pilot ports size	G1/8"

Coding: N776/V.22.0. . M3R

	FUNCTION	
<b>(3</b> )	1AC =	Internal pilot normally
•	closed	
	1C = Externa	al pilot normally closed



Weight 3238 g



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



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



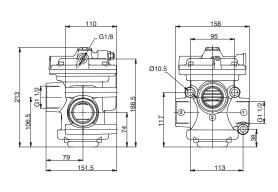
N776/V.32.11.1

### 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	G 1 1/2"	
Pilot ports size	G1/8"	



Weight 3168 g Normally closed/Normally open



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

Coding:



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



N776/V.32.0. . M3R

# Solenoid - Spring

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

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	FUNCTION
	1AC = Internal pilot normally
	closed
<b>(3</b> )	1AA = Internal pilot normally
	open
	1 = External pilot Normally
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Coding:



010.5 010.5 010.5 010.5 Internal pilot for vacuum - N.C. Exhaust port 3 Outlet port 2 Pump 1



Internal pilot for vacuum - N.O. Outlet port 1 Outlet port 2 Pump 3



External pilot for vacuum - N.C. - N.O. Exhaust 3 (N.C.) or (N.O.) Outlet 2 (N.C. & N.O.) Pump 1 (N.C.) & 3 (N.O.)



Weight 3228 g

