

General details

The series of valves and solenoid valves N776 of G1 1/2", developed technically and functionally out of series 776. A rolling diaphragm was introduced in place of the traditional piston, thus eliminating friction and wear on the gasket.

There is an additional gasket on the piston that insulates connection 3, making it possible to have normally open versions and self-supplied versions with vacuum (not available in the previous series 776). The actuation mechanisms are the M3R (Mechanism CNOMO) with two-position manual control.

The windings are not included and have to be ordered separately (see summary page for electric windings).

Certified windings are also available 

Construction features

Body, operator and bottom:	Die-cast aluminium
Seals and shutters:	Nitrile rubber (NBR), oilproof,
Piston:	Acetal resin
Guide pin:	Nickel-plated steel
Springs:	Steel
Diaphragm:	Rubberised nitrile fabric (NBR), oilproof

Wear and maintenance

These valves and solenoid valves have an average service life of approximately 10 - 15 million cycles under optimum conditions of usage. They do not need to be lubricated to operate well, but good filtration is recommended to prevent dirt accumulation and consequently likely malfunctioning.

Check to make sure that the conditions of use are consistent with the indicated limits, pressure, temperature, etc. Take care to protect the discharge outlets of the valves in the presence of dirt and powder. For these products, due to the manner in which they are constructed, maintenance by replacing valve parts does not have to be carried out. When necessary, basic internal cleaning can be performed, carefully removing any dirt accumulations. When the self-supply version is used in the solenoid valves, take care that the use is never, as air flow, the same as the supply, because in this case there would not be sufficient vacuum for actuation.

This is normally found on shutter valves since they do not have the closed centres position and insufficient actuation could cause the system to discharge from outlet 3. In this case switch to the version with external actuation.

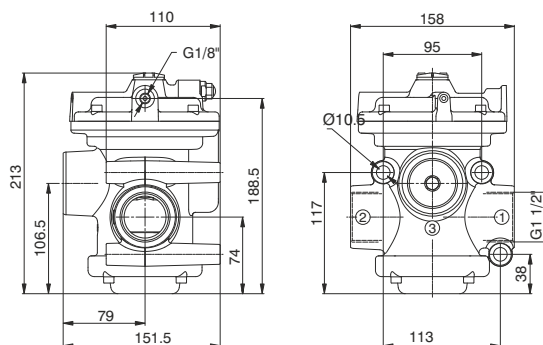
Connections of valves:

Normally closed Self-supplied	1 = DISCHARGE
Normally open External supply	2 = USE
	3 = PUMP
Normally open Self-supplied	1 = PUMP
Normally closed External supply	2 = USE
	3 = DISCHARGE

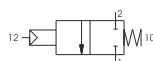
Pneumatic-Spring

Ordering code

N776/V.22.11.1C



Weight 3178 gr.
Normally closed
Minimum actuation pressure 2 bar



Performance characteristics	Fluid	Temperature °C	Nominal flow passage diameter (mm)	Supply connection	Actuation connection	Flow rate (l/min)	Degree of Vacuum (-kPa)
	Vacuum	-5 ÷ +70	38	G1 1/2"	G1/8"	3000	0 ÷ 101

Solenoid-Spring

Ordering code

N776/V.22.0.F.M3R

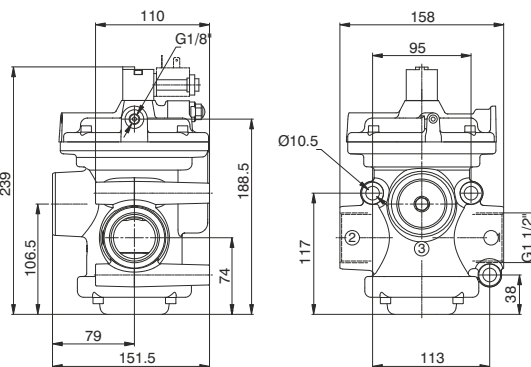
FUNCTION

1AC=Self-supplied

F Normally closed

1C=External supply

Normally closed



Weight 3238 gr.
Minimum actuation pressure 2 bar

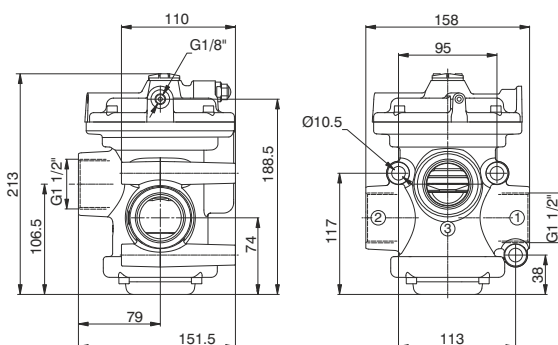


Performance characteristics	Fluid	Temperature °C	Nominal flow passage diameter (mm)	Supply connection	Actuation connection	Flow rate (l/min)	Degree of Vacuum (-kPa)
	Vacuum	-5 ÷ +50	38	G1 1/2"	G1/8"	3000	0 ÷ 101

Pneumatic-Spring

Ordering code

N776/V.32.11.1



Weight 3168 gr.
Normally closed / Normally open
Minimum actuation pressure 2 bar



Performance characteristics	Fluid	Temperature °C	Nominal flow passage diameter (mm)	Supply connection	Actuation connection	Flow rate (l/min)	Degree of Vacuum (-kPa)
	Vacuum	-5 ÷ +70	38	G1 1/2"	G1/8"	3000	0 ÷ 101

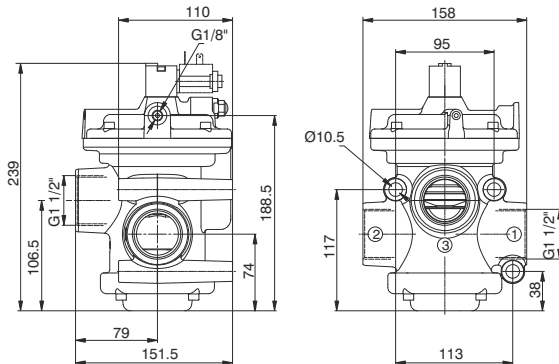
Solenoid-Spring

Ordering code

N776/V.32.0.0.M3R

FUNCTION

1AC=Self-supplied
Normally closed
1AA=Self-supplied
Normally open
1=External supply
Normally closed-
Normally open



Weight 3228 gr.
Minimum actuation pressure 2 bar



Performance characteristics	Fluid	Temperature °C	Nominal flow passage diameter (mm)	Supply connection	Actuation connection	Flow rate (l/min)	Degree of Vacuum (-kPa)
	Vacuum	-5 ÷ +50	38	G1 1/2"	G1/8"	3000	0 ÷ 101