



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 C RU US homologated are also available. (series 300).

Construction characteristics

Body, operator and end cover:	Die casting Aluminium
Seals and poppets:	NBR oil resistant rubber
Piston:	Aluminium (for Air) - Acetylic resin (for Vacuum)
Pin guide:	Nickel plated steel
Spring:	Steel
Diaphragm:	NBR oil resistant rubber

Use and maintenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.

Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.

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

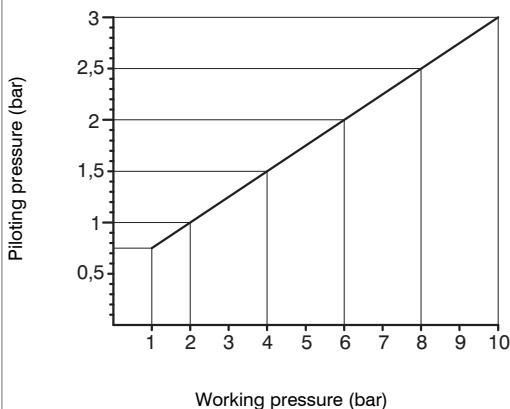
The exhaust port of the distributor has to be protected in a dusty and dirty environment.

For these products, according to the construction technique and special application, is not required any maintenance with parts replacement. When necessary it is sufficient to clean the internal parts.

When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate, otherwise is better choose the external pilot version.

Air valves port layout:		Vacuum valves port layout:	
Normally Closed:	1=LINE IN 2=CONSUMPTION 3=EXHAUST	Normally Closed internal Pilot	1=EXHAUST
		Normally Open (servoassisted) external pilot	2=CONSUMPTION 3=PUMP
Normally Open:	1=EXHAUST 2=CONSUMPTION 3=LINE IN	Normally Open internal Pilot	1=PUMP
		Normally Closed servoassisted) external pilot	2=CONSUMPTION 3=EXHAUST

**Minumum working pressure diagram
for external pilot versions
Normally Closed & Normally Open**

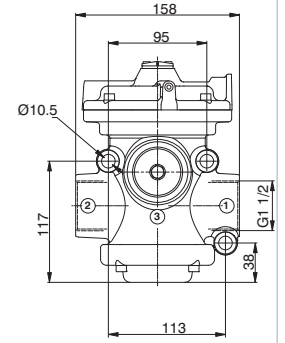
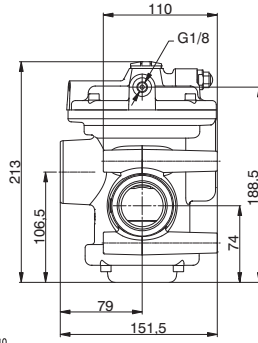
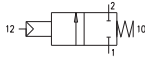


Pneumatic - Spring

Ordering code
N776.22.11.1C



Weight gr.3560
Normally Closed
Minimum piloting pressure "See diagram on the General page"



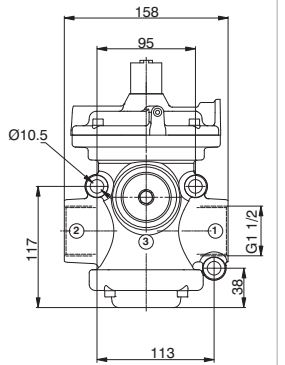
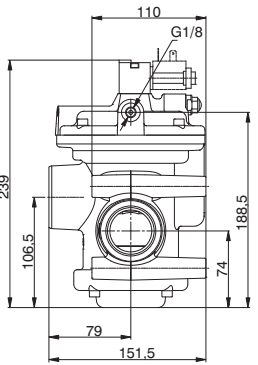
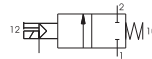
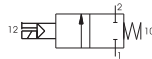
Operational characteristics	Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air or non	-5 ÷ +70	10	33500	38	G1 1/2"	G1/8"

Solenoid - Spring

Ordering code
N776.22.0.F.M3R
FUNCTION
F 1AC=Internal Pilot Normally Closed
1C=External Pilot Normally Closed



Weight gr.3620
Minimum piloting pressure: Servoassisted external pilot version, "See diagram on the General page" / 3.5 bar Internal pilot version,



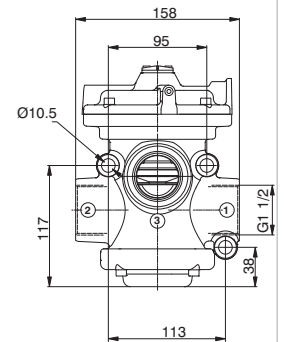
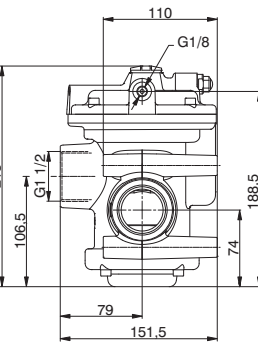
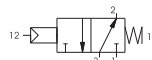
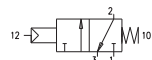
Operational characteristics	Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air or non	-5 ÷ +50	10	33500	38	G1 1/2"	G1/8"

Pneumatic - Spring

Ordering code
N776.32.11.1



Weight gr.3550
Normally Closed / Normally open
Minimum piloting pressure "See diagram on the General page"



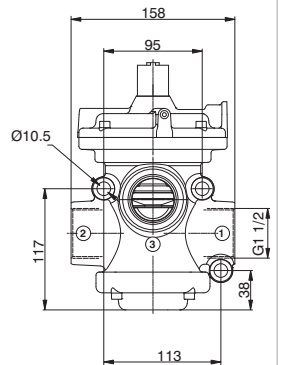
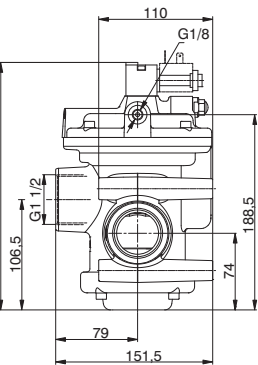
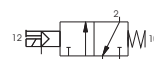
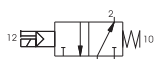
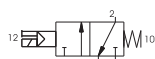
Operational characteristics	Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air or non	-5 ÷ +70	10	33500	38	G1 1/2"	G1/8"

Solenoid - Spring


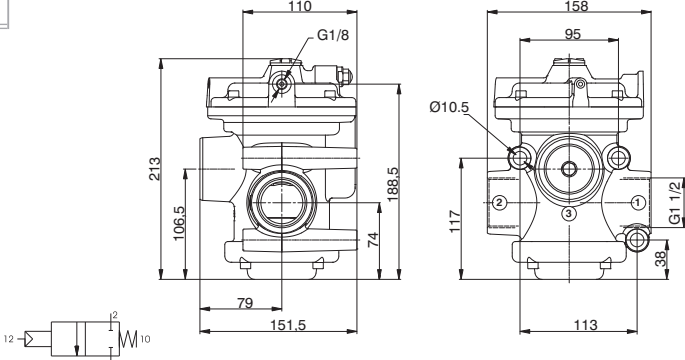
Ordering code
N776.32.0.F.M3R
FUNCTION
F 1AC=Internal Pilot Normally Closed
1AA=Internal Pilot Normally Open
1=External Pilot Normally Closed-Normally Open


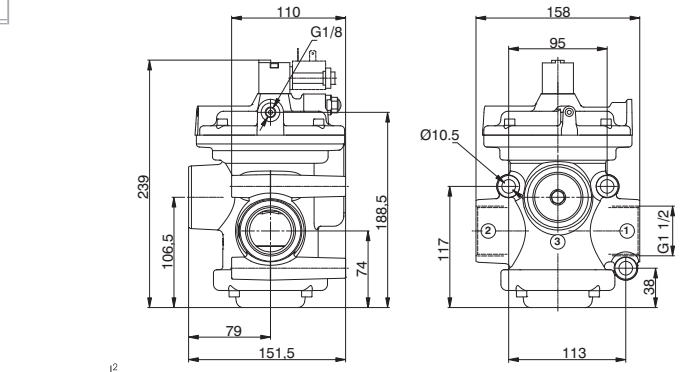




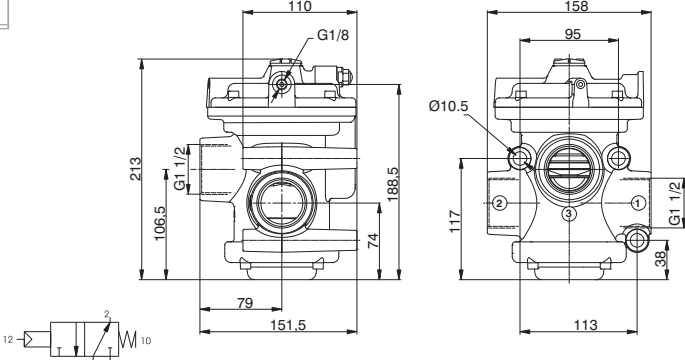
Weight gr.3610
Minimum piloting pressure: Servoassisted external pilot "See diagram on the General page" / 3.5 bar Internal pilot version,


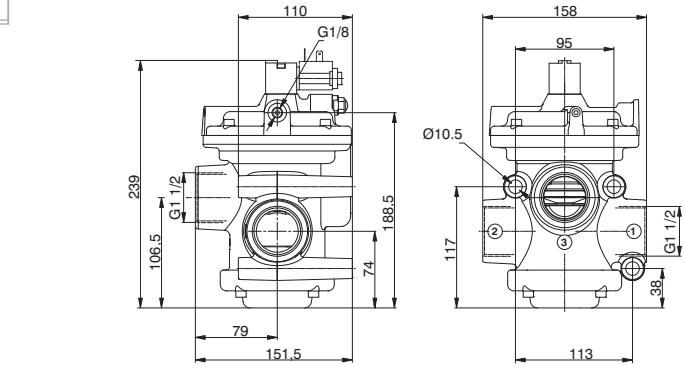



Operational characteristics	Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air or non	-5 ÷ +50	10	33500	38	G1 1/2"	G1/8"

Pneumatic - Spring					
Ordering code					
N776/V.22.11.1C					
Weight gr.3178 Normally Closed Minimum piloting pressur 2 bar					
Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +70	38	G1 1/2"	G1/8"

Solenoid - Spring					
Ordering code					
N776/V.22.0.F.M3R					
FUNCTION F 1AC=Internal Pilot Normally Closed 1C=External Pilot Normally Closed					
Weight gr.3238 Minimum piloting pressure 2 bar					
Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +50	38	G1 1/2"	G1/8"

Pneumatic - Spring					
Ordering code					
N776/V.32.11.1					
Weight gr.3168 Normally Closed / Normally open Minimum piloting pressur 2 bar					
Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +70	38	G1 1/2"	G1/8"

Solenoid - Spring					
Ordering code					
N776/V.32.0.F.M3R					
FUNCTION F 1AA=Internal Pilot Normally Open 1=External Pilot Normally Closed-Normally Open					
Weight gr.3228 Minimum piloting pressure 2 bar					
Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +50	38	G1 1/2"	G1/8"