SOLENOID VALVES 820 SERIES • 2/2

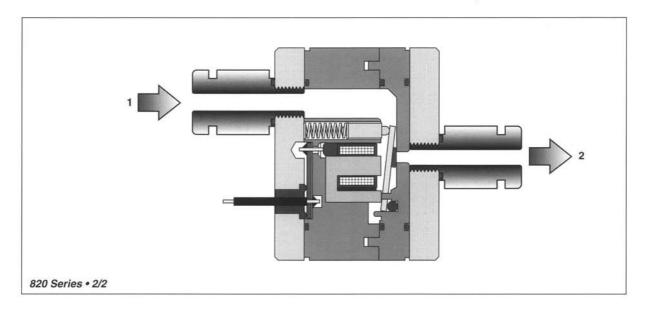
The Pneumatic Solenoid Valves 820 Series are NC 2/2 type.

The research about materials and new technological solutions allowed the realization of a shutter solenoid valve with an extremely simple operation principle and with avant-garde dynamic characteristics. The mass of the moving elements has been reduced to the minimum and every inner friction has been eliminated: in this way, we obtained response times of milliseconds and an operation life over 500 million cycles. Due to the possibility of controls of speed-up type, their dynamic characteristics are even more improved. Standard solenoid valves with 24 VDC control have a response time lower than 5 ms in opening and 2 ms in closing, with a maximum operation frequency of 200 Hz. On the contrary, solenoid valves with speed-up control have a response time lower than 1 ms, both in opening and in closing, with a maximum operation frequency of 500 Hz.

Besides high-speed characteristics, solenoid valves 820 Series offer flow rate values up to 180ℓ /minute (ANR), with feeding pressure from 0 to 8 bar.

Controlling the valve through either PWM (Pulse Width Modulation) or PFM (Pulse Frequency Modulation) technique, it is possible to vary the passing flow rate and to obtain, in this way, a solenoid valve, having a proportional flow rate.

820 Series is available both in-line assembly and sub-plate version, equipped with such accessories as multi-position manifolds or speed-up driver boards.



Advantages

- · Compact dimension.
- · High duct diameter and flow rate.
- · Short response times.
- · Insensitivity to frequency work and to vibrations.
- · Low absorbed power.
- · Precision, repetitiveness and flexibility.
- Long operating life.

Applications

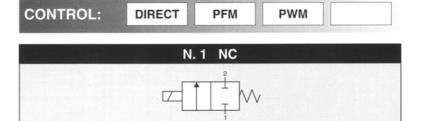
- Process and precision instrumentation.
- · Pressure and flow rate control devices.
- · Positioning systems.
- · Selection systems.
- · Metering systems.
- · Biomedical and measure sector.

Materials

- · Body in PPS.
- · Flanges in Al.
- · Seals in NBR.



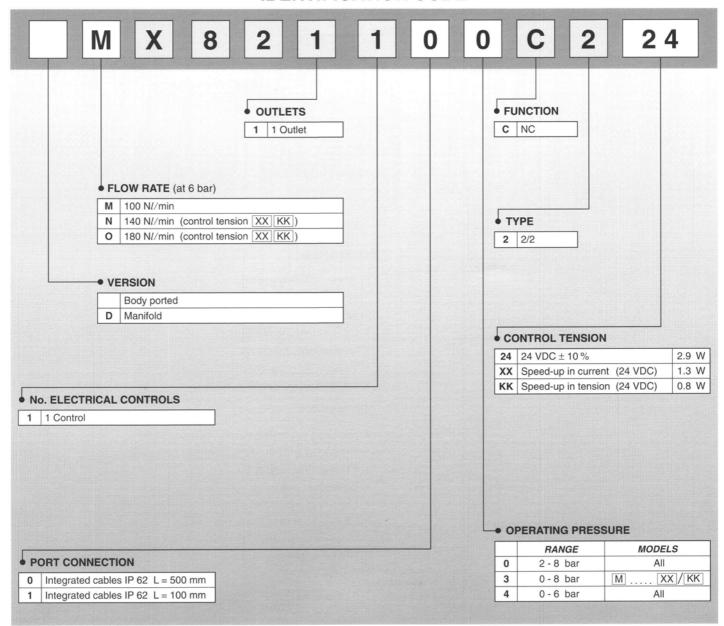




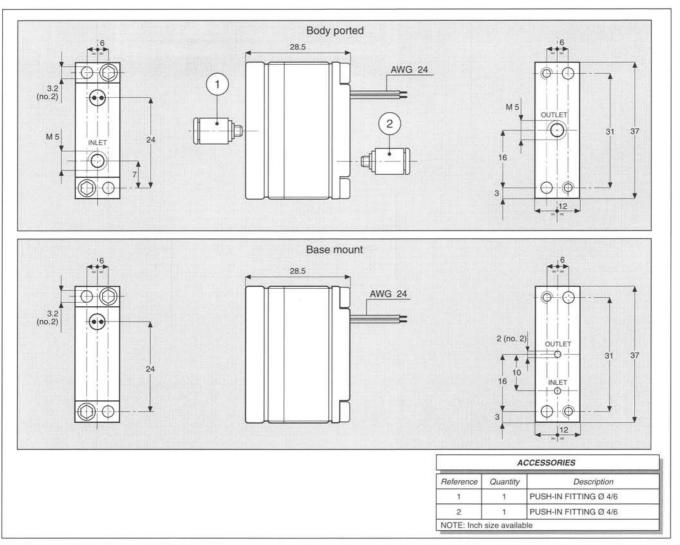
GENERAL CHARACTERISTICS

FLUID	Non-lubricated dry air, neutral gases(-10 + 50°C)	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard version)	
RESPONSE TIME IN OPENING	24 < 5 ms	XX/KK < 1 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX/KK < 1 ms
MAXIMUM FREQUENCY	200 Hz	500 Hz
WEIGHT	25 g	
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles	
IP RATING	IP 62	

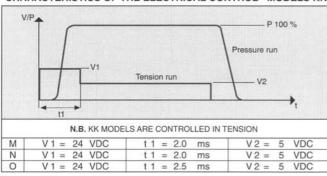
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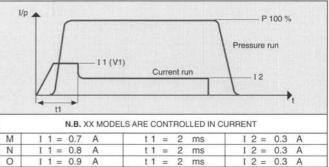


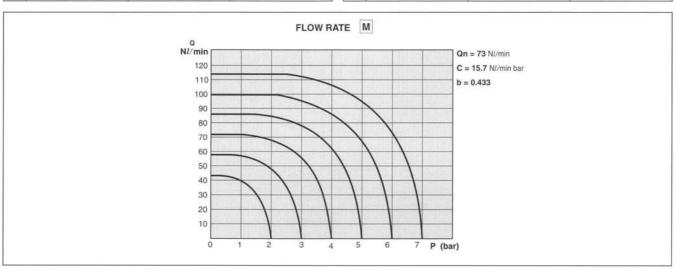


CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



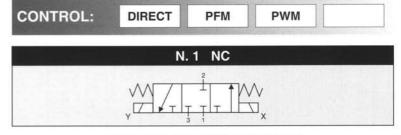
CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX







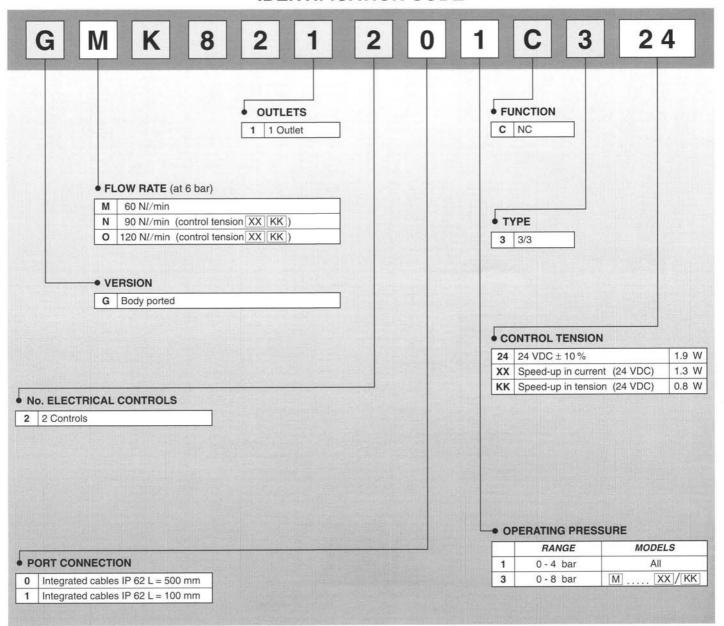




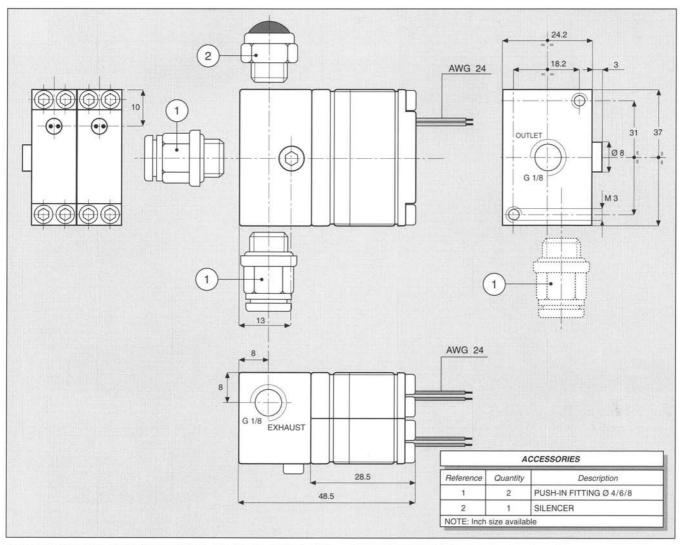
GENERAL CHARACTERISTICS

FLUID	Non-lubricated dry air, neutral gases (-10 + 50°C)	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard version)	
RESPONSE TIME IN OPENING	24 < 6 ms	XX/KK < 3 ms
RESPONSE TIME IN CLOSING	24 < 2 ms	XX/KK < 1 ms
MAXIMUM FREQUENCY	100 Hz	200 Hz
WEIGHT	130 g	
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycle	
IP RATING	IP 62	

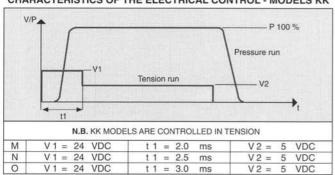
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CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK



CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS XX

