840 Series



High performance compact solenoid valve | 2/2 NC PNEUMATIC DIVISION



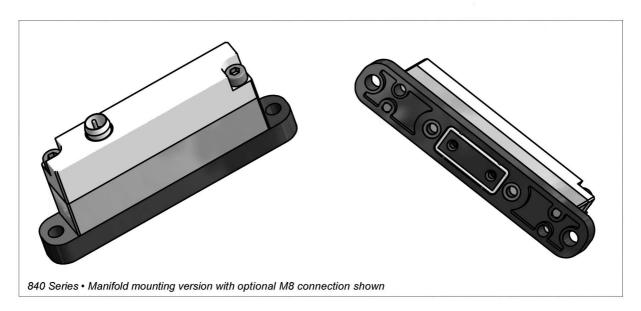
SOLENOID VALVES 840 SERIES • 2/2

The 840 Series Pneumatic Solenoid Valves are 2/2 NC 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 840 Series offers flow rate values up to 300 Nl/min., 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. The 840 Series is available both in-line assembly and sub-plate version, equipped with such accessories as multi-position manifolds or speed-up integrated driver boards.



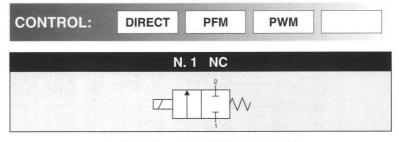
Advantages

- · Compact dimensions (12mm footprint)
- High flowrate up to 300 l/min @ 6 bar (modular)
- · Fast response times down to 2 ms
- · Insensitivity to high frequency and vibrations
- · Low power consumption
- Extreme precision and flexibility
- Extra long operating life (up to 500 M cycles)

Typical applications

- Process and precision instrumentation
- · Pressure and flowrate control systems
- Positioning systems
- Sorting and recycling applications
- · Metering systems
- · Biomedical equipments

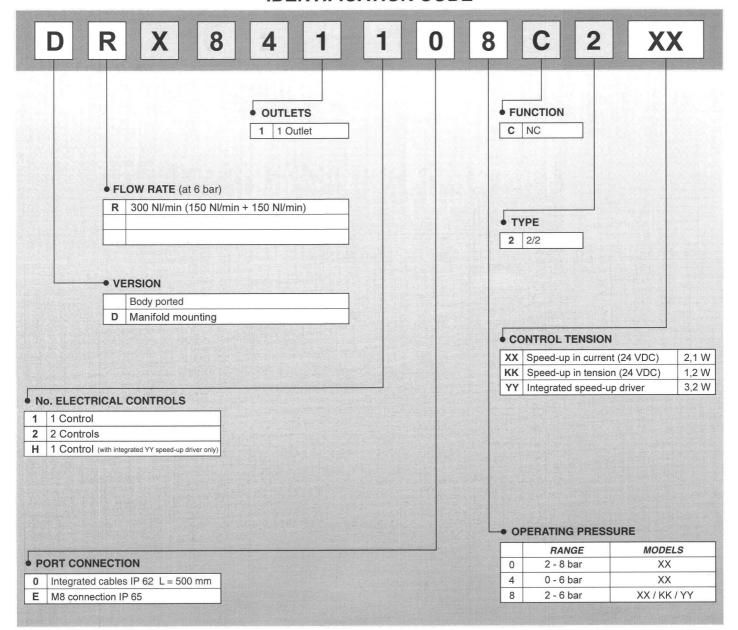




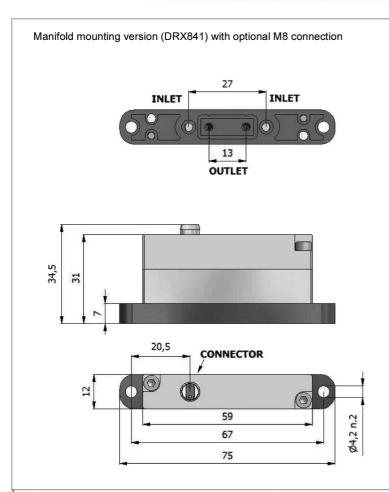
GENERAL CHARACTERISTICS

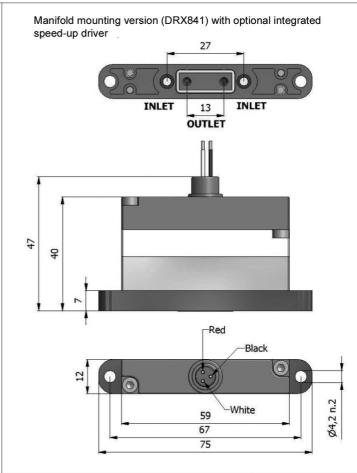
FLUID	Non-lubricated dry air, neutral gases(-10 + 50°C)	
FILTRATION RATING	Min 40 micron	
TEMPERATURE	- 10 + 50°C (Standard version)	
RESPONSE TIME IN OPENING	XX / KK < 1 ms	YY < 1,5 ms
RESPONSE TIME IN CLOSING	XX / KK < 1 ms	YY < 2 ms
MAXIMUM FREQUENCY	XX / KK 250 Hz	YY 250 Hz
WEIGHT	XX / KK 95 g	YY 100 g
PRODUCT LIFE EXPECTANCY	≥ 500 M/s cycles	
IP RATING	IP62 ÷ IP65	

IDENTIFICATION CODE









CHARACTERISTICS OF THE ELECTRICAL CONTROL - MODELS KK

