580 Series

High Performance solenoid multi-valve | 2/2 x 8
PNEUMATIC DIVISION

MATRIX mechatronics

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The 580 Series solenoid multi-valves are 2/2 NC type. The research about materials and new technological solutions allowed the realization of a shutter solenoid multi-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 internal friction has been eliminated: in this way, the 580 Series grants response times of milliseconds and an operating life of over 500 million cycles with a maximum operation frequency of 200 Hz. Besides high-speed characteristics, the 580 Series offers flow rate values up to 180 l/min. and is available both in-line configuration with push-in fittings and sub-plate versions for manifold installations.

Advantages
- Compact dimensions
- High flowrate up to 180 l/min x 8
- Fast response times
- 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°C to 50°C)
- **FILTRATION RATING**: Min 40 micron
- **TEMPERATURE**: -10°C to 50°C (Standard version)
- **RESPONSE TIME IN OPENING**: KK < 1 ms
- **RESPONSE TIME IN CLOSING**: KK < 1 ms
- **MAXIMUM FREQUENCY**: KK 200 Hz
- **WEIGHT**: 400 g
- **PRODUCT LIFE EXPECTANCY**: ≥ 500 M/s cycles
- **IP RATING**: IP62

**IDENTIFICATION CODE**

- **D O X 5 8 8 8 0 D C 2 KK**

- **FLOW RATE**: 180 NL/min
- **VERSION**: Inline with push-in fittings (FKM flaps)
- **OUTLETS**: 8 8 Outlets
- **FUNCTION**: C NC
- **TYPE**: 2 2/2
- **CONTROL TENSION**: KK Speed-up in tension (24 VDC) 1.6 W
- **OPERATING PRESSURE**: Range: 0 - 5 bar

- **PORT CONNECTION**
  - 0 Integrated cables IP 62 L = 500 mm
  - 1 Integrated cables IP 62 L = 100 mm