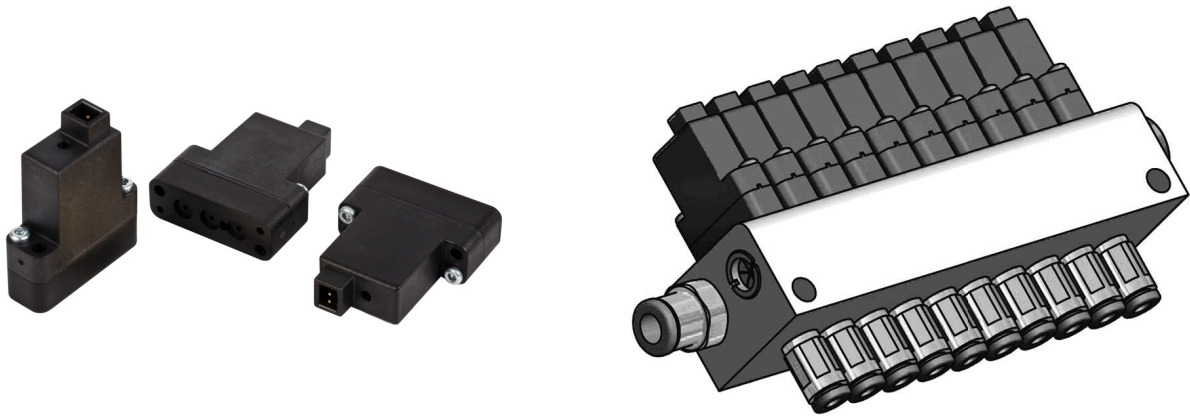


MATRIX | Pneumatic Division

320 Series

3/2 mini solenoid valve



The guideline of the project has been the creation of an innovative product in the micro solenoid valves scenario. The trend in Key Industrial sectors shows a clear interest towards a drastic dimensional reduction, low weight and mass, high performance and long service life.

The new 320 Series mini solenoid valves are designed to fulfill the technical needs of applications requiring small components, low precise flowrate values and high dynamic characteristics. Based on the proven balanced Zero Internal Friction technology and on high energy efficient materials, these products offer outstanding performances in terms of reaction time, reliability and operating life.

Characterized by a flowrate of 25 NI/min and a maximum operating frequency of 200 Hz, small size and low weight (15 g. and a footprint of only 8 mm), they can easily satisfy the needs of latest generation applications requiring extreme speed, precision, reliability and miniaturization in industrial sectors such as micro-percussion marking devices, precision filling and dosing equipments, automated assembly and test systems, textile equipments for yarn processing, food processing and packaging systems, medical, bio-tech and micro-surgery applications, first aid low consumption portable systems, gases monitoring and processing devices, etc.

The low mass and the insensitivity to vibrations and accelerations allow the direct installation onto the moving parts of positioning systems and robotic units, granting a further efficiency improvement thanks to the reduction of the compressed air volumes required by remote installations.

The operating life of these new products, main element of several niche applications, which is up to 500 million cycles, may represent a remarkable reduction of the operating, maintenance and service costs of the systems they are installed in.



“Matrix technology assures full insensibility to vibrations and accelerations, particularly suitable for robotics and textile apps.”

Main technical characteristics

Overall dimensions (mm) :	24,5 x 8 x 23
Weight (gr.):	15
Maximum working frequency (Hz):	200
Response time (ms):	3 (on) – 1,5 (off) [speed-up 0,6 ms]
Flowrate (NI/min @ 6 bar):	25
Working pressure range (bar):	0-8 Vacuum
Control tension (VDC):	6 - 12 - 24 Vdc
Non lubricated air filtration (micron):	40 (min)
Temperature range (°C):	-10 + 50
IP rating :	IP62
Installation:	sub-base manifold
Operating life (cycles):	500.000.000
Electric connection:	Molex PicoSpox type connector

Innovative

25 NI/min | 200 Hz | 15 g | 8 mm



info:

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