



EVI 5 S13

Solenoid System

EVI 5 S13 Solenoid System

The EVI5 S13 system by AMISCO includes a wide range of solenoid operators designed for pneumatic valves. All solenoids of this system have the guide tube with a diameter of 13 mm and the hexagonal plunger CH 11. The system is designed for use with air.

Please contact Amisco for use with other media.

COIL

The coil is available with different electrical terminations. Types, power and other characteristics are described in the following pages.

All coils feature:

- heat resistant bobbin moulded with 30% glass filled thermoplastic polyester material
- class H wire 200°C according to IEC 60317-13
- built-in magnetic yoke made by low carbon iron
- encapsulation with high quality specially designed glass filled nylon
- copper and plastic material used are UL-Listed.

The use of other materials is possible upon special agreements. Coils are rated to class F. The coil is designed and constructed in accordance to EN 60204.1 and VDE 0580 and it is suitable for industrial ambient conditions. For use in special ambients with high humidity, please, take contact with Amisco.

The data reported on this catalogue are referred to EVI 5E and 5M. We have also other type of coil EVI 5, with higher performance, available. Please refer to EVI 5 coil systrem catalogue and contact Amisco for further details.

SOLENOID OPERATOR

Cores are made by a magnetic stainless steel specially designed for solenoid applications.

The guide tube is available both in brass and in stainless steel.

The plunger is normally equipped with NBR rubber seals.

Other materials like FKM are available upon request.

The armature assembly is designed for more than 10 million cycles.

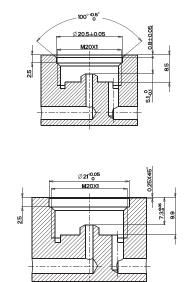
COMPLETE SOLENOID

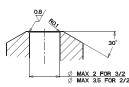
The coil is fastened to the plungerguide tube by means of a knurled nut for ease of change over without interrupting the pneumatic circuit.

The armature assy is fixed to the valve body by means of a M20x1 thread.

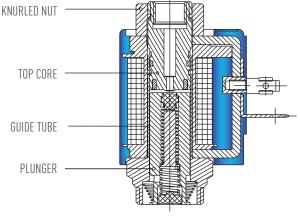
The suggested interface dimensions of the valve body are shown at side.

Any change to the prescribed dimensions can modify the performances of the solenoid operator.





The specificatioans and drawings contained herein are believed to be correct and are given in good faith, however no liability is accepted therefore. Manufacturer reserves the right to modify said specifications and drawings without notice for technical or commercial reasons.



EVI 5 S13

SOLENOID SYSTEMS

for 3/2 and 2/2 way normally closed and normally open valves

Coil EVI 5M/13	Characteristics	DC	AC (50 Hz)	AC (60 Hz)
Electrical termination:	Rated power DC W	10		
Terminals EN 175301 - 803 / DIN 43650 A Code: 5M13D Flying leads Code: 5M13C	Inrush power AC VA		23	19
	Rated power AC VA		13	11
	Coil temperature rise @ 50°C ambient T	50	50	45
	Copper temperature rise @ 50°C ambient T	85	70	60

Note:

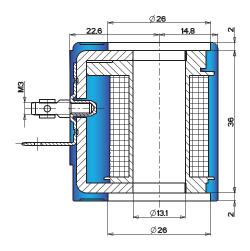
Voltage tolerance:	± 10%	Standard voltages: 24 - 110 - 230 VAC
Temperature range:	-20°C ÷ +50°C	12 - 24 VDC
Duty cycle:	100%	Other voltages on request

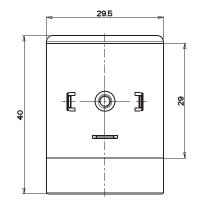
For different orifice sizes and pressures contact AMISCO.

S13 Solenoid Operator	Characteristics		DC	AC (50 Hz)	AC (60 Hz)
3/2 way NC Thread	Inlet orifice Ø	mm	2	2	2
Code: 13F	Exhaust orifice Ø	mm	2	2	2
	Working pressure	bar	0-10	0-10	0-10
2/2 way NC Thread	Inlet orifice Ø	mm	2	2	2
Code: 13F	Working pressure	bar	0-10	0-10	0-10
3/2 way NO Thread	Inlet orifice Ø	mm	2	2	2
Code: 13F	Working pressure	bar	0-10	0-10	0-10

EVI 5M EN 175301 - 803 / DIN 43650 A

Tightening Torque 0.4 ÷ 0.6 Nm



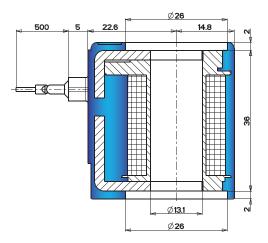


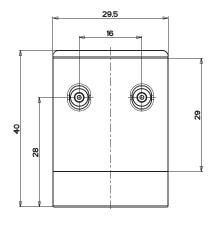


EVI 5M Flying Leads

PART NUMBER 5M13C...

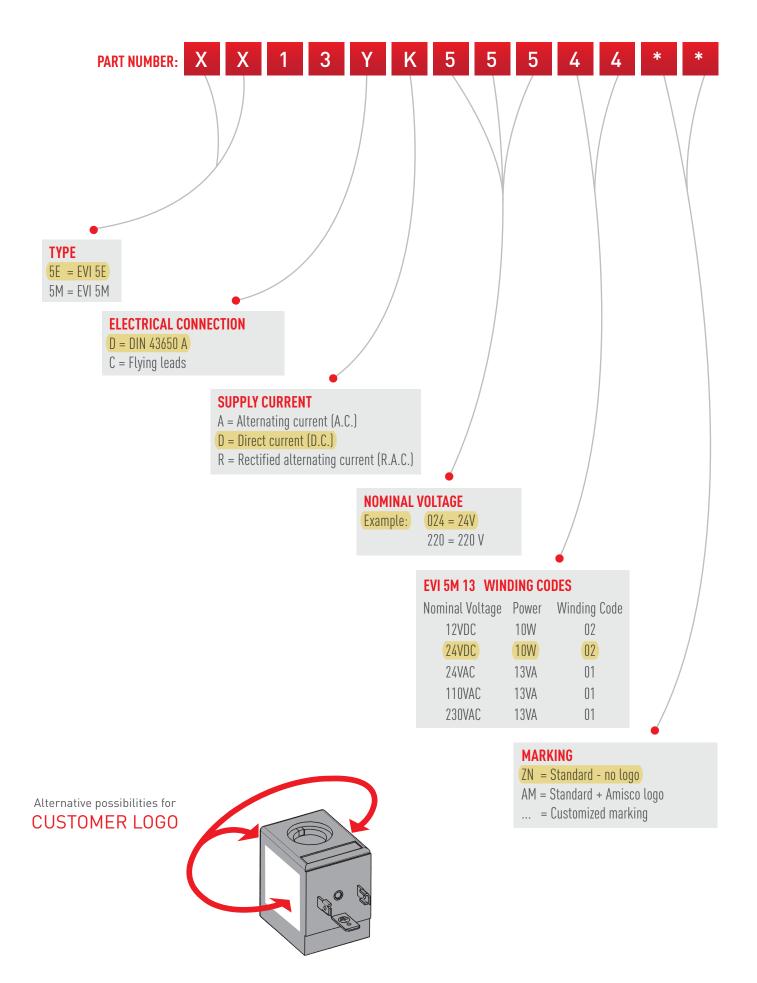
500 mm flying leads as a standard, PVC 105°C \emptyset 2.25

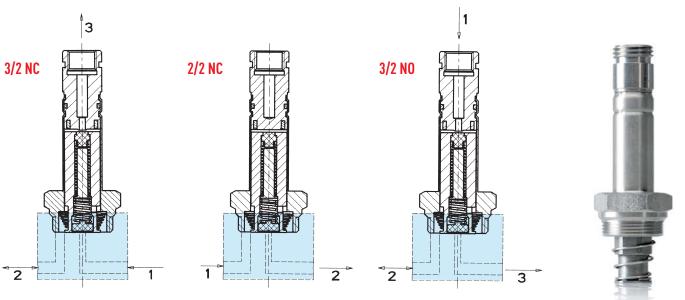






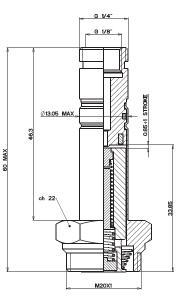
COIL CODING SPECIFICATIONS



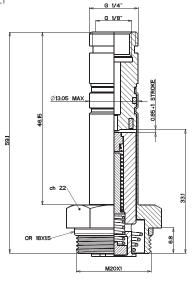


3/2 OPERATOR

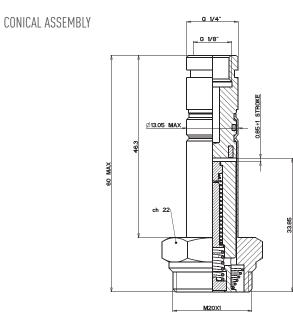




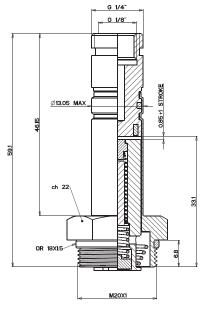
O-RING ASSEMBLY



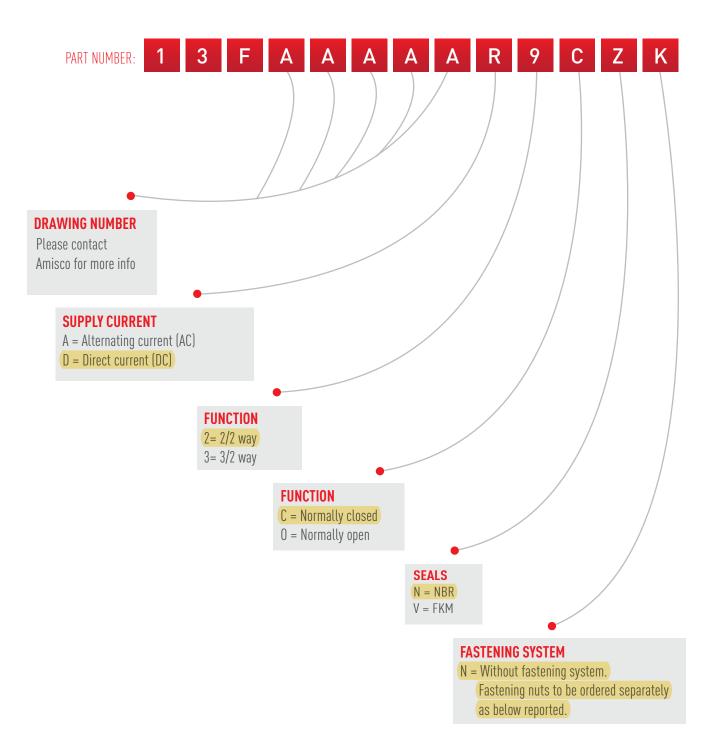
2/2 OPERATOR NC

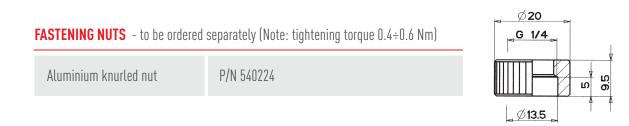


O-RING ASSEMBLY



Note: the plunger sliding-tube is available both in brass and in stainless steel.







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