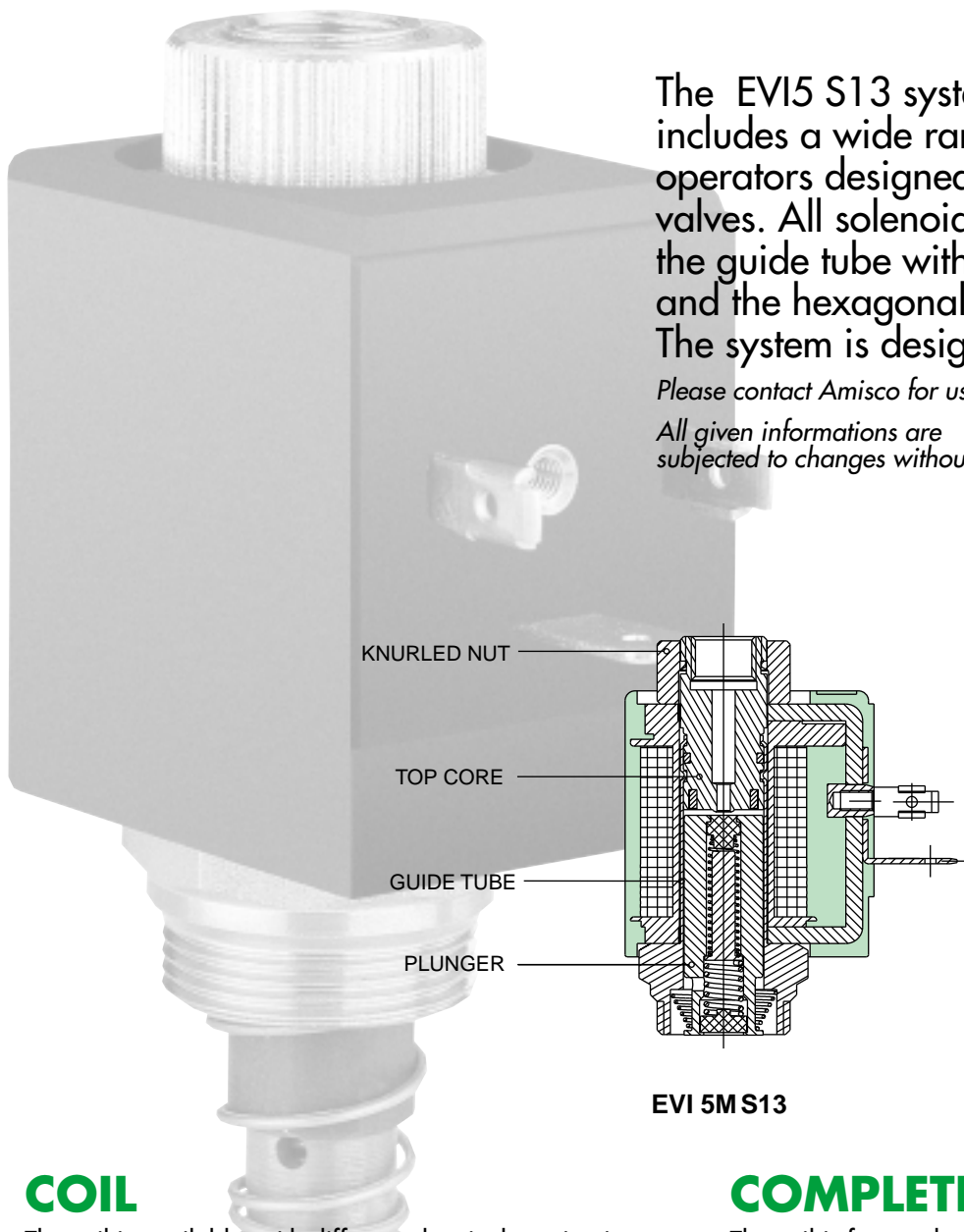


The EVI5 S13 system by AMISCO includes a wide range of solenoid operators designed for pneumatic valves. All solenoids of this system have the guide tube with a diameter of 13 mm and the hexagonal plunger CH 11. The system is designed for use with air.

*Please contact Amisco for use with other media.*

*All given informations are subjected to changes without notice.*



**EVI 5M S13**

## 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 317-8
- built-in magnetic yoke made by low carbon iron
- encapsulation with high quality specially designed glass filled nylon.

The use of other materials is possible upon special agreements. All coils are rated to class F and to IP 65 (with connector). 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.

## ARMATURE ASSY

Plunger and core are made by a magnetic stainless steel specially designed for solenoid applications.

The guide tube is made available both by brass and by stainless steel. The plunger is normally equipped with NBR rubber seals. Other materials like Viton are available upon request. The armature assembly is designed for more than  $10^6$  cycles.

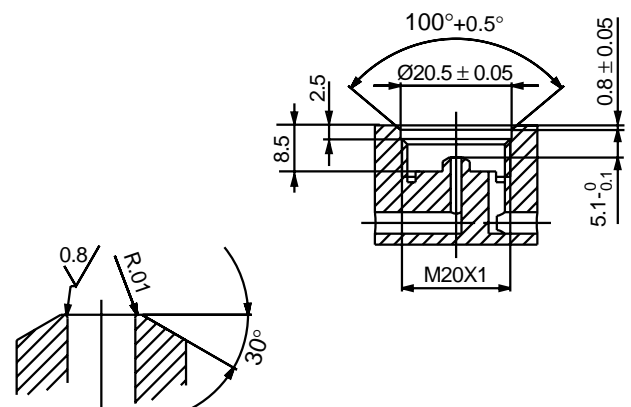
## COMPLETE OPERATOR

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 below.

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



## SOLENOID SYSTEMS

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



Electrical termination	Code	Characteristics				
				DC	AC 50 Hz	AC 60 Hz
Terminals DIN 43650 A  Flying leads	5M13D.  5M13C	Rated power DC	W	10		
		Inrush power AC	VA		23	19
		Rated power AC	VA		13	11
		Coil temperature rise	°C	50	50	45
		Copper temperature rise	°C	85	70	60
3/2 way NC Thread	13F...	Inlet orifice Ø	mm	2	2	2
		Exhaust orifice Ø	mm	2	2	2
		Working pressure	bar	0-10	0-10	0-10
2/2 way NC Thread	13F...	Inlet orifice Ø	mm	2	2	2
		Working pressure	bar	0-10	0-10	0-10
3/2 way NO Thread	13F...	Inlet orifice Ø	mm	2	2	2
		Working pressure	bar	0-10	0-10	0-10

Notes:

Voltage tolerance: ± 10%  
 Temperature tolerance: -20°C ÷ +50°C  
 Duty cycle: 100%

Standard voltages: 24 - 110 - 230 VAC  
 12 - 24 VDC  
 Other voltages on request

For different orifice sizes and pressures contact AMISCO



## OPERATOR CODING SPECIFICATIONS



### TYPE

13 F = Thread

### DRAWING NUMBER

Example:

05072 = SP 577/2

06871 = SP 687/1

### SUPPLY CURRENT

A = Alternating current

D = Direct current

### FUNCTION

2 = 2/2 way

3 = 3/2 way

### FUNCTION

C = Normally closed

O = Normally open

### SEALS

B = Low temperature NBR

E = EPDM - V = Viton

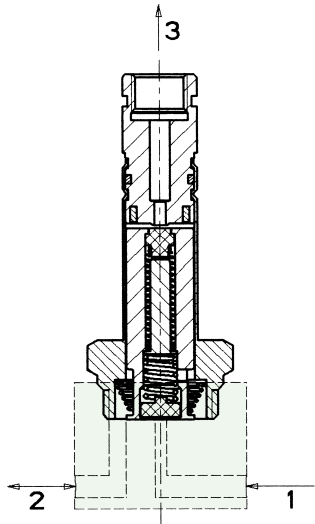
N = NBR - C = Neoprene

### FASTENING SYSTEM

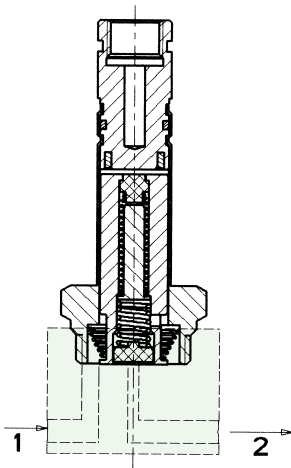
N = Without fastening system. Fastening nuts to be ordered separately as below:

## FASTENING NUTS (Note: tightening torque max 0.6 Nm)

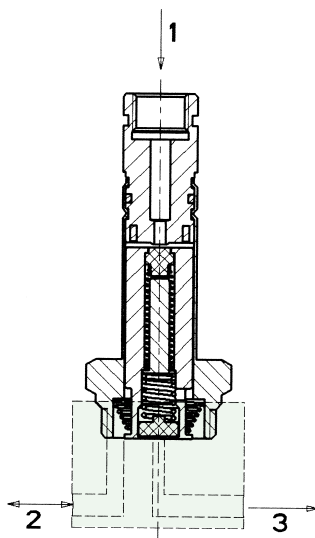
Aluminium knurled nut	Cod. 540224	
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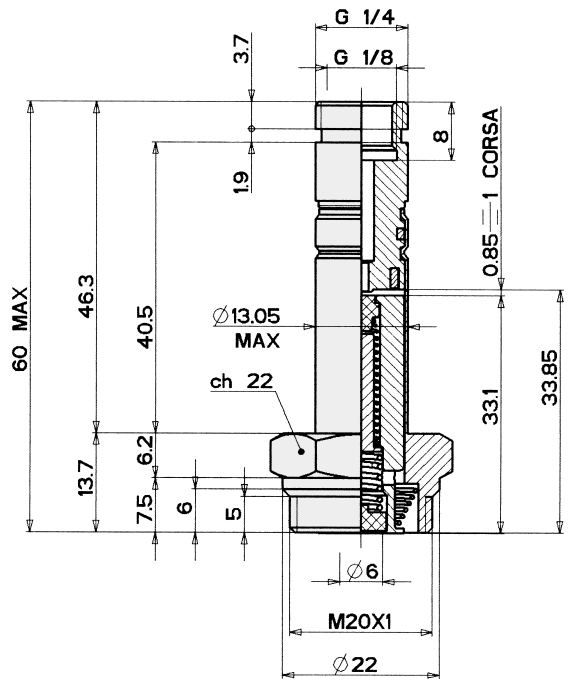
3/2 NC



2/2 NC

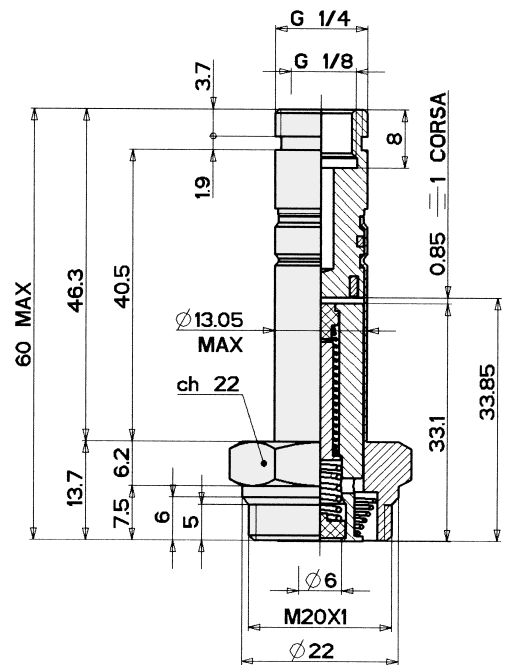


3/2 NO



3/2 OPERATOR

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



2/2 OPERATOR

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

## COIL CODING SPECIFICATION



### TYPE

5M = EVI 5M

### COIL BORING

13 = 13 mm

### ELECTRICAL CONNECTION

D= DIN 43650 A

C= Flying leads

### SUPPLY CURRENT

A= Alternating current (A.C.)

D= Direct current (D.C.)

R= Rectified alternating current (R.A.C.)

### NOMINAL VOLTAGE

Example: 024 = 24V

220 = 220 V

### WINDING CODE

To be communicated by AMISCO

### SPECIAL FEATURES

Z = Standard

M= Different moulding material

C = Different colour

### MARKING

N= Standard

T = Customer specifications

B = No Marking

Alternative possibilities  
for CUSTOMER LOGO

