

بویین شیر برقی آمیسکو EVI 5M 13



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EVI 5

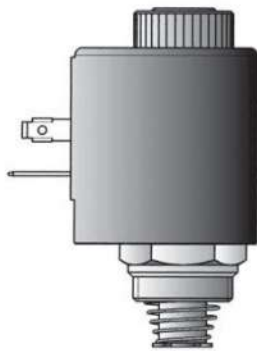
Coil System

The EVI 5 system by AMISCO includes a complete range of electrical coils suitable for solenoid operated pneumatic and hydraulic valves.

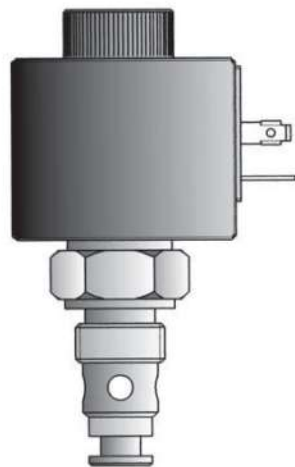
The EVI 5 coils are designed to fit most of the current applications and offer a wide choice of electrical terminations.

The lead version can be equipped with different connectors upon request.

Pneumatic version



Hydraulic version



The EVI 5E, EVI 5M, EVI 5P, EVI 5S coils are designed to fit solenoid tubes with $\varnothing = 13$ mm.

The EVI 5F is designed to fit solenoid tubes with $\varnothing = 15$ mm.

Types, power ratings and more technical specifications are described in the following pages.

The coils can be manufactured with different powers or features upon special agreement.

All coils feature:

- Heat resistant bobbin moulded with 30% glass filled thermoplastic polyester material
- Class H 200°C wire according to IEC 60317-13
- Built-in magnetic yoke made by low carbon iron
- Encapsulation with high quality custom designed glass filled polyamide or thermoplastic polyester
- Copper and plastic material used are UL-Listed

The use of other materials is possible upon special agreements.

These coils are designed in accordance to EN 60335 and DIN VDE 0580.

Coil can be supplied and marked EAC for use in Russian Market.

More details about EAC certification can be given on customer request.

Coil can be supplied and marked CSA/UL for Electrical Insulation System (EIS) "E300N", designated by Amisco as AMIH - UL file E343908.

The specifications 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.

COIL CODING SPECIFICATIONS

PART NUMBER: 5 X 9 9 Y K 5 5 5 4 4 * *

TYPE

5E = EVI 5E
5M = EVI 5M
5P = EVI 5P
5S = EVI 5S
5F = EVI 5F

COIL BORING

13 = 13 mm
15 = 15 mm (only for EVI 5F)

ELECTRICAL CONNECTION

A = AMP Junior (only for 5P and 5S) S = AMP Superseal (only for 5S)
C = Flying Leads (only for 5M, 5E and 5P) T = DEUTSCH DT04 (only for 5S)
D = DIN 43650 A
K = KOSTAL M27x1 (only for 5S)

SUPPLY CURRENT

A = Alternating current (A.C.)
D = Direct current (D.C.)
R = Rectified alternating current (R.A.C.)

NOMINAL VOLTAGE

Example: 012 = 12V
024 = 24V

EVI 5M/13 WINDING CODE

Nominal Voltage	Power	Winding Code
12VDC	10W	02
24VDC	10W	02
24VAC	13VA	01
110VAC	13VA	01
230VAC	13VA	01

EVI 5P/13 WINDING CODE

Nominal Voltage	Power	Winding Code
12VDC	13W	03
12VDC	17W	05
24VDC	13W	03
24VDC	17W	05
24VAC	19VA	04
110VAC	19VA	04
230VAC	19VA	03

EVI 5E/13 WINDING CODE

Nominal Voltage	Power	Winding Code
12VDC	10W	03
24VDC	10W	03
24VAC	13VA	01
110VAC	13VA	01
230VAC	13VA	01

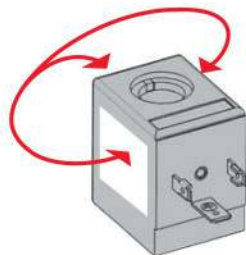
EVI 5F/15 WINDING CODE

Nominal Voltage	Power	Winding Code
12VDC	10W	01
24VDC	10W	01
24VAC	10VA	02
110VAC	10VA	01
230VAC	10VA	01

EVI 5S/13 WINDING CODE

Nominal Voltage	Power	Winding Code
12VDC	20W	01
24VDC	20W	01

Alternative possibilities for
CUSTOMER LOGO



MARKING

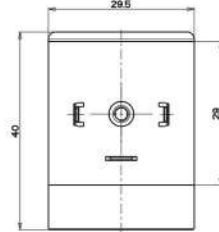
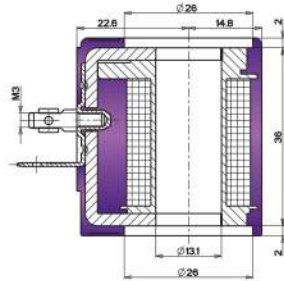
ZN = Standard coil (no logo)
AM = Standard coil + Amisco logo
... = Customized marking

EVI 5M/13

DIN 43650 A (EN 175301-803 ISO 4400)

M3 Torque 0,4±0,6Nm

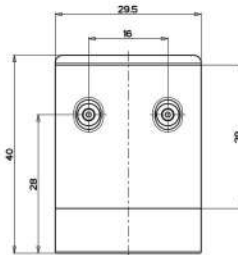
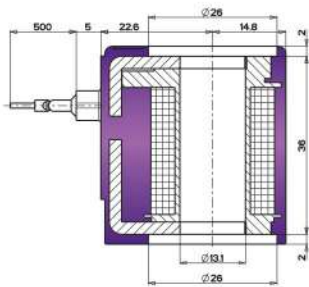
PART NUMBER 5M13D...



FLYING LEADS

500 mm flying leads as a standard, PVC 105°C Ø2.25

PART NUMBER 5M13C...

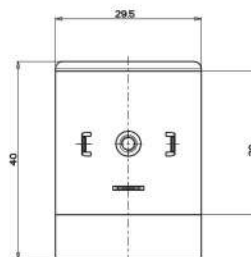
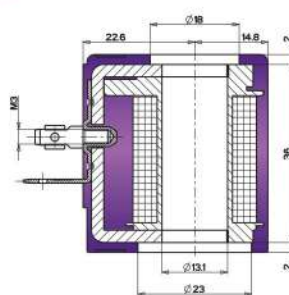


EVI 5E/13

DIN 43650 A (EN 175301-803 ISO 4400)

M3 Torque 0,4±0,6Nm

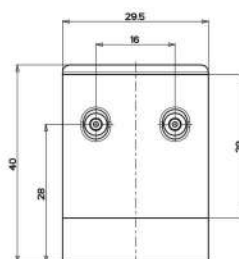
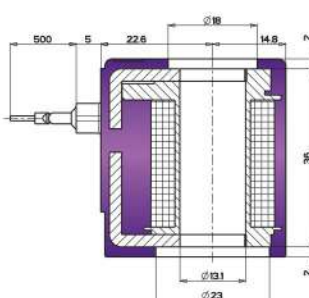
PART NUMBER 5E13D...



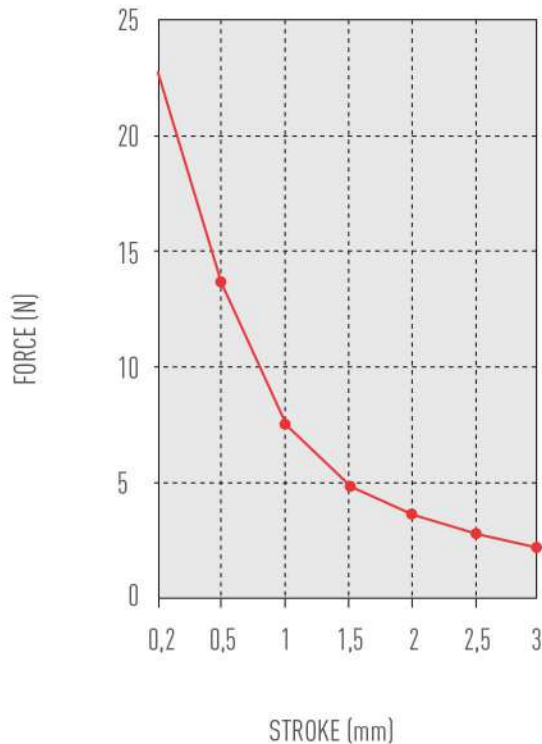
FLYING LEADS

500 mm flying leads as a standard, PVC 105°C Ø2.25

PART NUMBER 5E13C...



EVI 5M/13 and EVI 5E/13



Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

EVI 5M/13 EVI 5E/13

		DC	AC 50/60 Hz
Rated power DC	W	10	
Inrush power AC	VA		23/19
Rated power AC	VA		13/11
Coil temperature rise @ 50°C ambient T		60	70
Copper temperature rise @ 50°C ambient T		100	100

Above-mentioned AC consumption have to be intended only as indicative. They may change according to the tube design solutions.

Coil type EVI 5M/13 and EVI 5E/13 are suitable for pneumatics and hydraulics applications. In the first case, additional information are available in the brochure "EVI 5 S13 solenoid system", as complete solenoid.

TECHNICAL DATA

Power: 10 Watt (standard)

Force: see the graph

Duty Cycle: 100% ED (continuous)

at power and temperatures indicated

Standard Operating Voltages: 12-24 VDC 24-110-230 VAC

Other voltages on request

Operating voltage range:

max: 10% over the nominal voltage

min: according to the specific application

Operating temperature range: -40°C ÷ +50°C

Coil insulation: Class F

GENERAL CONSTRUCTION

According to EN 60335 and DIN VDE 0580

Materials:

Wire class H200°C

Encapsulant: glass filled Polyamide PA 6.6

Other materials on request

ELECTRICAL CONNECTIONS AND DEGREE PROTECTION

Degree of protection with connector and tube assembled with suitable seals:

DIN 43650A IP65

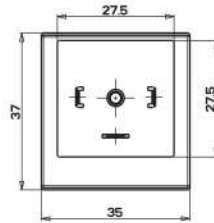
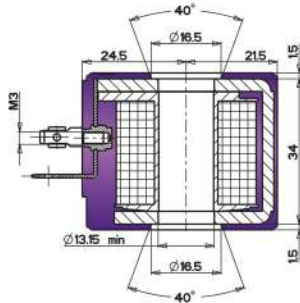
FLYING LEADS IP67

EVI 5P/13

DIN 43650 A (EN 175301-803 ISO 4400)

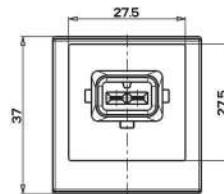
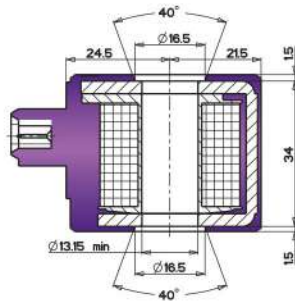
PART NUMBER 5P13D...

M3 Torque 0,4+0,6Nm



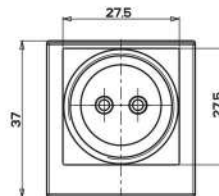
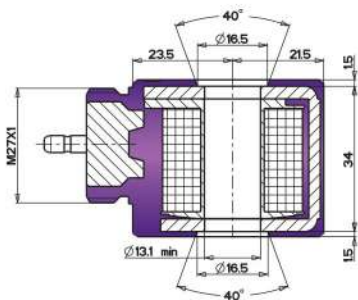
AMP JUNIOR

PART NUMBER 5P13A...



KOSTAL M27x1

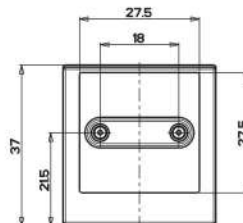
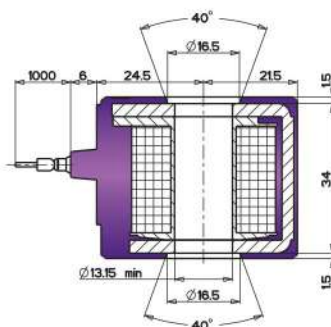
PART NUMBER 5P13K...



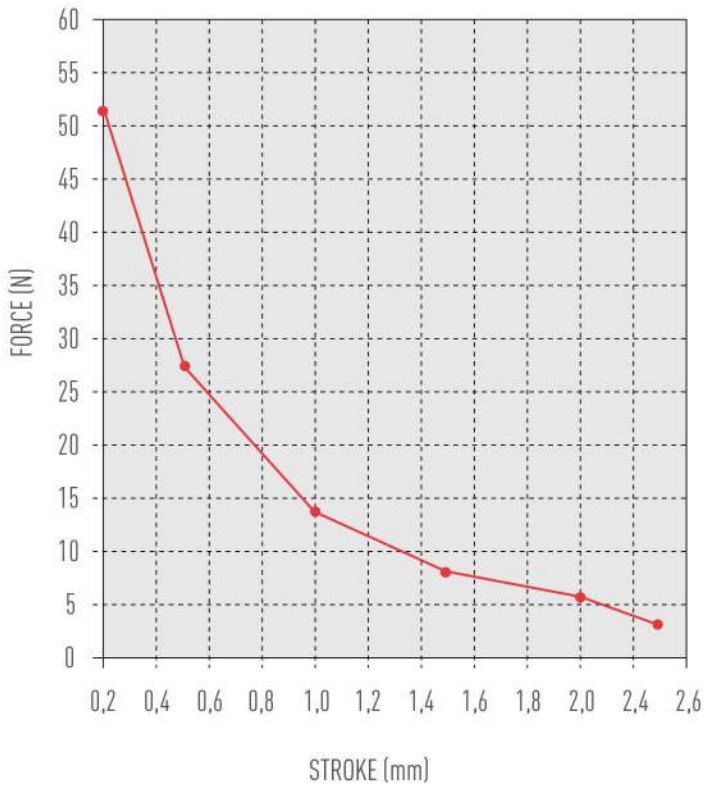
FLYING LEADS

PART NUMBER 5P13C...

1000 mm flying leads as a standard, AWG 18 UL Style 3173



EVI 5P/13



Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

This graph is referred to 13W version.

EVI 5P/13

		DC		AC 50/60 Hz	
Rated power DC	W	13	17		
Inrush power AC	VA			32/27	37/31
Rated power AC	VA			19/16	22/18
Coil temperature rise @ 50°C ambient T		55	70	45/36	55/45
Copper temperature rise @ 50°C ambient T		85	105	86/72	100/85

Above-mentioned AC consumption have to be intended only as indicative. They may change according to the tube design solutions.

Coil type EVI 5P/13 is suitable for pneumatics and hydraulics applications.

TECHNICAL DATA

Power: 13 Watt (pneumatic std) 17 Watt (hydraulic std)

Force: see the graph

Duty Cycle: 100% ED (continuous)

at power and temperatures indicated

Standard operating voltages: 12-24 VDC 24-110-230 VAC

Other voltages on request

Operating voltage range:

max: 10% over the nominal voltage

min: according to the specific application

Operating temperature range: -40°C ÷ +50°C

Coil insulation: class F

GENERAL CONSTRUCTION

According to EN 60335 and DIN VDE 0580

Materials:

Wire class H200°C

Encapsulant: glass filled Polyamide 6.6

Other materials on request

Degree of protection:

IP 54 (EN 60529)

ELECTRICAL CONNECTIONS AND RELATED IP DEGREE

Degree of protection with connector

and tube assembled with suitable seals:

DIN 43650A IP65

FLYING LEADS IP65 / IP67

KOSTAL M27x1 IP67

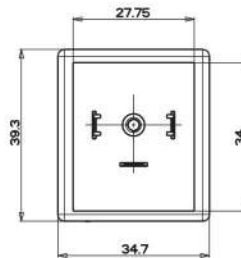
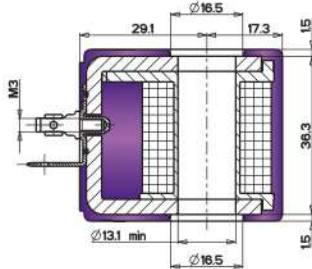
AMP JUNIOR IP65

EVI 5S/13

DIN 43650 A (EN 175301-803 ISO 4400)

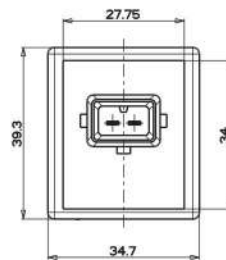
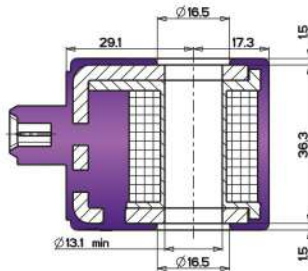
M3 Torque 0,4±0,6Nm

PART NUMBER 5S13D...



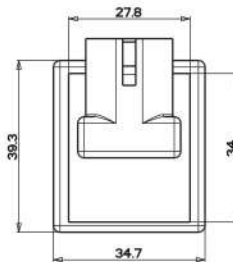
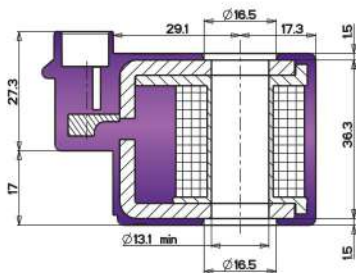
AMP JUNIOR

PART NUMBER 5S13A...



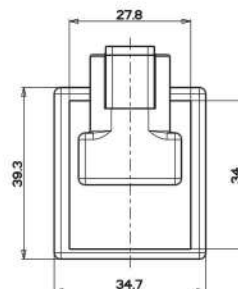
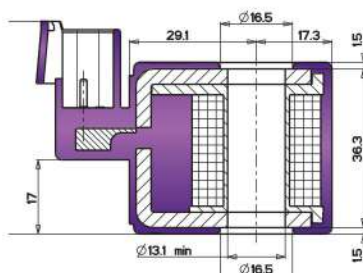
AMP SUPERSEAL

PART NUMBER 5S13S...

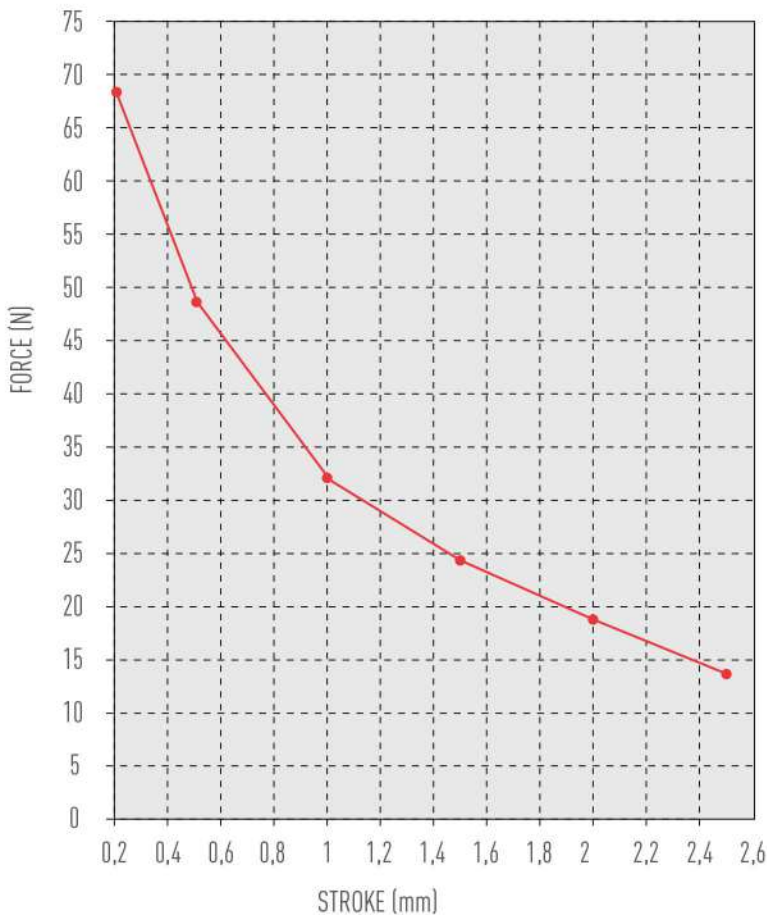


DEUTSCH DT-04

PART NUMBER 5S13T...



EVI 5S/13



Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

EVI 5S/13

		DC
Rated power DC	W	20
Coil temperature rise @ 50°C ambient T		75
Copper temperature rise @ 50°C ambient T		110

Coil type EVI 5S/13 is suitable for pneumatics and hydraulics applications.

TECHNICAL DATA

Power: 20 Watt (standard)

Force: see the graph

Duty cycle: 100% ED (continuous)
at power and temperatures indicated

Standard operating voltages: 12-24 VDC
Other voltages on request

Operating voltage range:

max: 10% over the nominal voltage

min: according to the specific application

Operating temperature range: -40°C ÷ +50°C

Coil insulation: Class F

GENERAL CONSTRUCTION

According to EN 60335 and DIN VDE 0580

Materials:

Wire class H200°C

Encapsulant: glass filled Polyamide PA 6.6

Other materials on request

Degree of protection:

IP 54 (EN 60529)

ELECTRICAL CONNECTIONS AND DEGREE PROTECTION

Degree of protection with connector
and tube assembled with suitable seals:

DIN 43650A IP65

AMP JUNIOR integrated IP65

DEUTSCH DT04 integrated IP69K

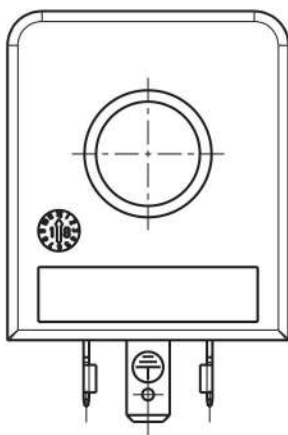
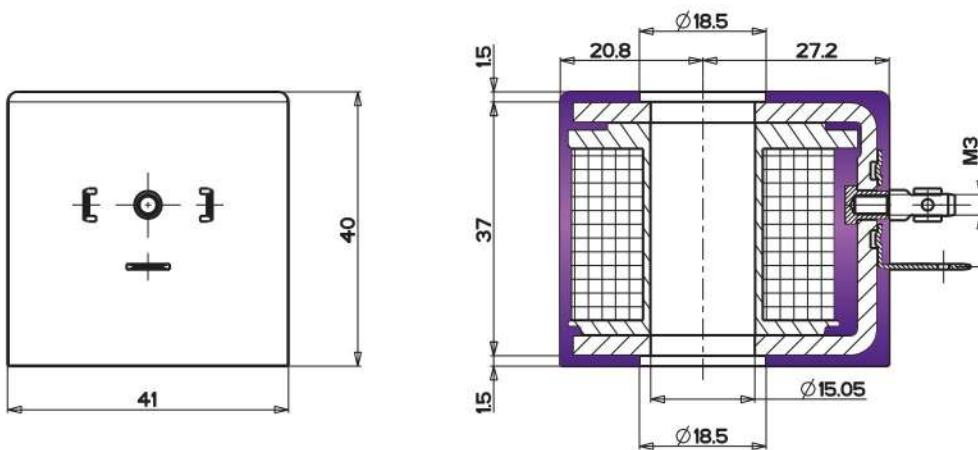
AMP SUPERSEAL integrated IP69K

EVI 5F/15

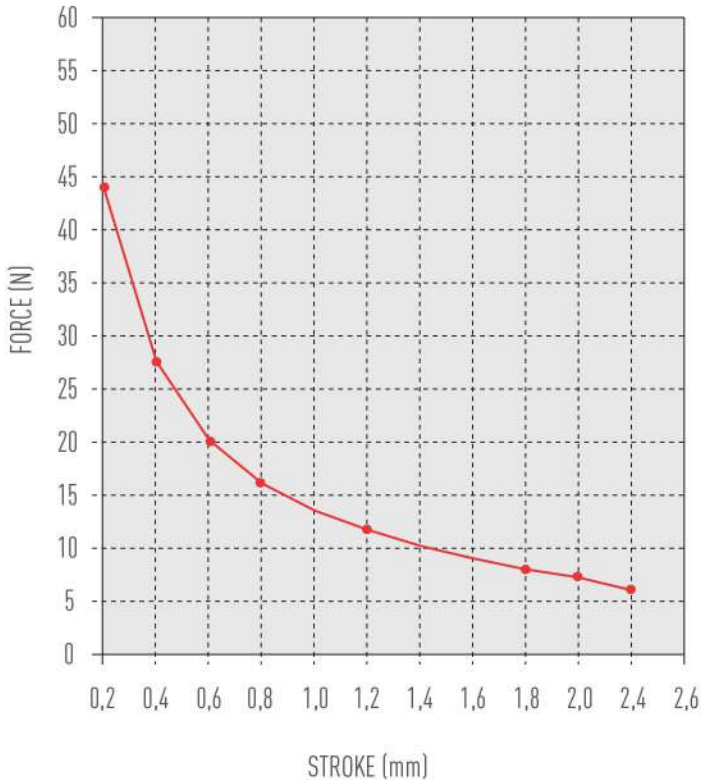
DIN 43650 A (EN 175301-803 ISO 4400)

PART NUMBER 5F15D...

M3 Torque 0,4±0,6Nm



EVI 5F/15



Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

EVI 5F/15

		DC
Rated power DC	W	10
Coil temperature rise @ 50°C ambient T		76
Copper temperature rise @ 50°C ambient T		92

Coil type EVI 5F/15 is suitable for hydraulic and fluid applications, it has a 15 mm inner diameter hole.

TECHNICAL DATA

Power: 10 Watt (standard)

Force: see the graph

Duty cycle: 100% ED (continuous)
at power and temperatures indicated

Standard operating voltages: 12-24 VDC
Other voltages on request

Operating voltage range:

max: 10% over the nominal voltage

min: according to the specific application

Operating temperature range: -40°C ÷ +50°C

Coil insulation: Class F

GENERAL CONSTRUCTION

Materials:

Wire class H200°C

Encapsulant: glass filled Polyamide PA 6.6

Other materials on request

Degree of protection:

IP 54 (EN 60529)

ELECTRICAL CONNECTIONS AND DEGREE PROTECTION

Degree of protection with connector

and tube assembled with suitable seals:

DIN 43650A

IP 65



علی صنعت

طراحی و تنظیم این کاتالوگ صد درصد توسط شرکت علی صنعت انجام شده
و تمامی حقوق برای شرکت علی صنعت محفوظ میباشد

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