AMISCO



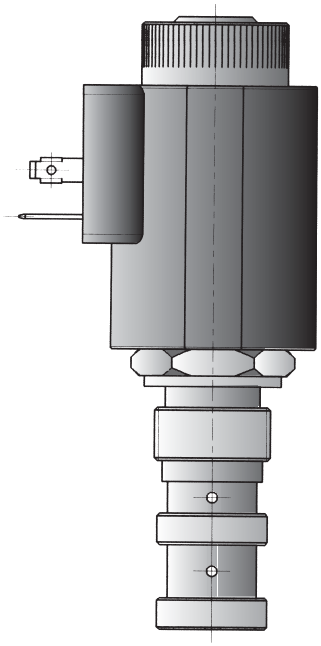
EVI 3

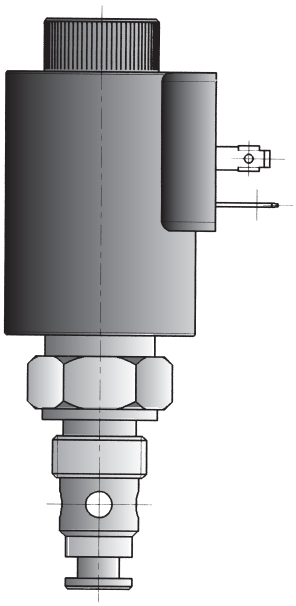
Coil System

EVI 3 Coil System

The EVI3 coil system by AMISCO includes a wide range of electrical coils suitable for cartridge valves for mobile hydraulic and pneumatic applications.

The EVI3 coils are designed to fit most of the current applications and offer a choice of electrical terminations like DIN 43650 (EN 175301-803 ISO 4400), Kostal M27x1, AMP Junior, Flying Leads, AMP Superseal, Metripack, Deutsch and ISO 15170.





The EVI 3E coil is designed to fit solenoid tubes with Ø=14mm.
The EVI 3P coil is designed to fit solenoid tubes with Ø=14mm e Ø16mm.
The EVI 3D coil is designed to fit solenoid tubes with Ø=19mm (3/4 inch).
Types, power ratings and more technical specifications are described in the following pages.
These coils can be manufactured with different powers or characteristics upon customer request.

The flying leads version can be equipped with different connectors upon request.

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 nylon or thermoplastic polyester**
- **Copper and plastic material used are UL-Listed**

The use of other materials is possible upon special agreements.
Coils are rated to Class F for continuous service.
These coils are designed in accordance to EN 60335 and 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.

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.

COIL CODING SPECIFICATIONS

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

TYPE
3E = EVI 3E
3P = EVI 3P
3D = EVI 3D

COIL BORING
14 = 14 mm
16 = 16 mm
19 = 19 mm

ELECTRICAL CONNECTION
A = AMP Junior (only for 3E and 3P)
C = Flying leads
D = DIN 43650 A
K = Kostal M27x1 (only for 3E and 3P)
T = Deutsch DT04 (only for 3E and 3P)
S = AMP Superseal (only for 3P)
M = Metripack 2 (only for 3P)
I = ISO 15170 (only for 3P)

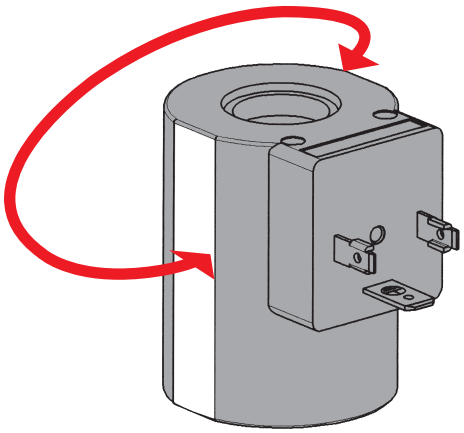
SUPPLY CURRENT
A = Alternating current (A.C.)
D = Direct current (D.C.)
R = Rectified alternating current (R.A.C.)

NOMINAL VOLTAGE
Example: 012 = 12V
024 = 24V

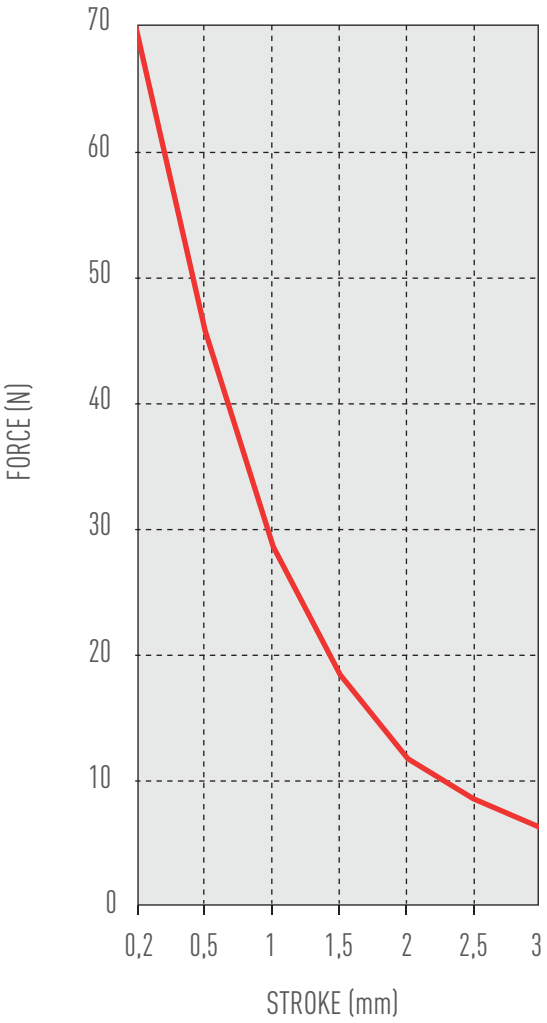
WINDING CODE
See tables in next pages

MARKING
AM = Standard coil + Amisco logo
ZN = Standard coil (only voltage)
... = Customized marking

Alternative possibilities for
CUSTOMER LOGO



EVI 3E/14



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 3E/14

NOMINAL VOLTAGE	POWER	WINDING CODE
12VDC	21W	01
24VDC	21W	01

Coil suitable for hydraulic applications. It can be supplied with different power consumptions according to specific requirements. Available with different types of electric connections. (see side page).

TECHNICAL DATA

Standard power consumption: 21W
Force: see the graph
Duty Cycle: 100% ED (continuous)
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 PA 6-6 or glass filled PBT.
Other materials on request.

ELECTRICAL CONNECTIONS:

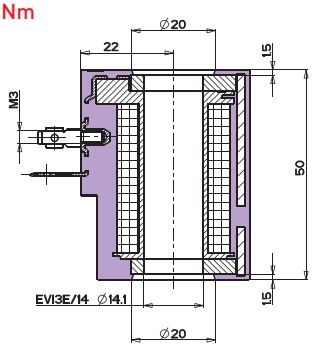
Degree of protection: IP 54 (EN 60529)
With connector and suitable seals it can reach:

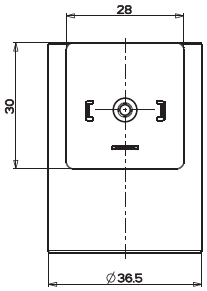
DIN 43650 connector	IP65
KOSTAL connector (M27x1)	IP67
Flying leads	IP67
AMP Junior	IP65
Deutsch DT04	IP69K

DIN 43650 A (EN 175301-803 ISO 4400)

PART NUMBER 3E14D...

M3 Torque 0,4÷0,6Nm

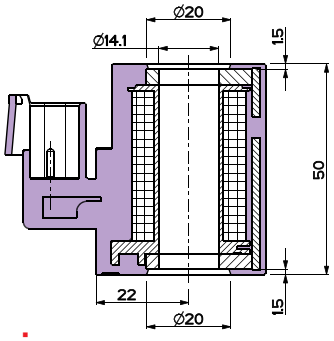


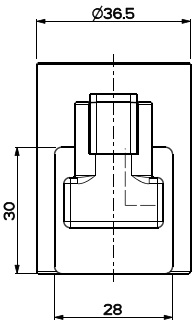


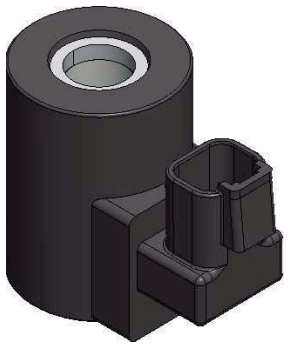


Deutsch DT04

PART NUMBER 3E14T...

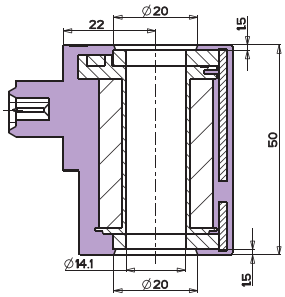


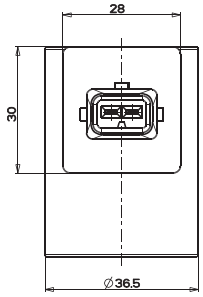




AMP Junior

PART NUMBER 3E14A...

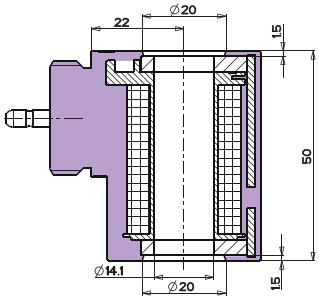


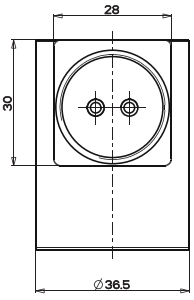




KOSTAL M27X1

PART NUMBER 3E14K...



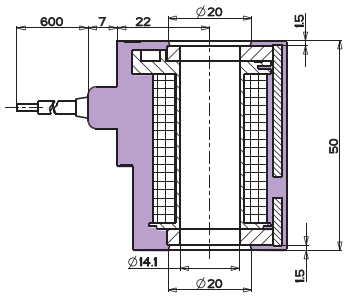


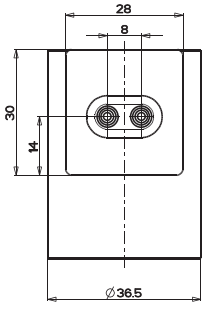


FLYING LEADS

PART NUMBER 3E14C...

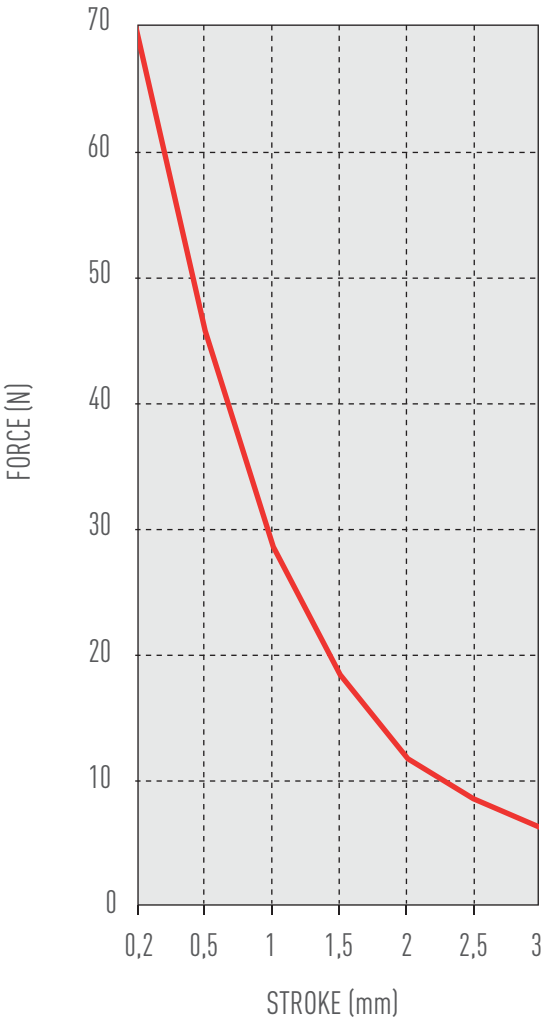
600 mm flying leads as a standard, AWG 18 UL Style 3173







EVI 3P/14



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 3P/14

NOMINAL VOLTAGE	POWER	WINDING CODE
12VDC	21W	01
24VDC	21W	01

Coil suitable for hydraulic applications. It can be supplied with different power consumptions according to specific requirements. Available with different types of electric connections. (see side page).

TECHNICAL DATA

Standard power consumption: 21W
Force: see the graph
Duty Cycle: 100% ED (continuous)
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 PA 6-6 or glass filled PBT.
Other materials on request.

ELECTRICAL CONNECTIONS:

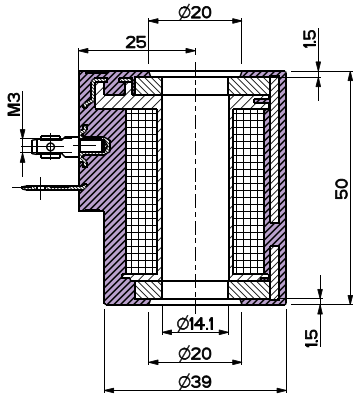
Degree of protection: IP 54 (EN 60529)
With connector and suitable seals it can reach:

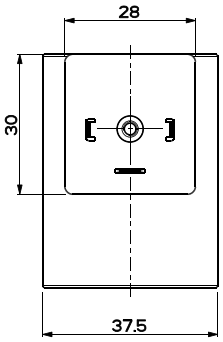
DIN 43650 connector	IP65
DEUTSCH DT04	IP69K
AMP SUPERSEAL	IP69K
METRIPACK2	IP69K

DIN 43650 A (EN 175301-803 ISO 4400)

PART NUMBER 3P14D...

M3 Torque 0,4÷0,6Nm

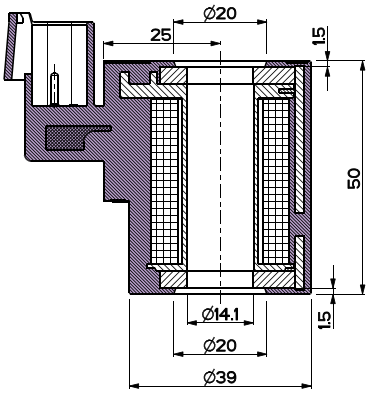


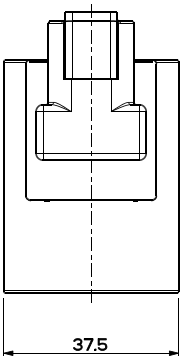


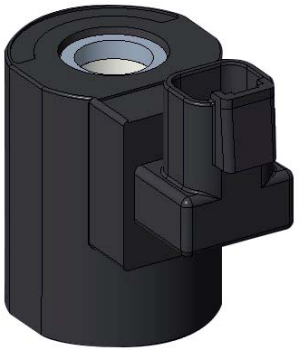


DEUTSCH DT04

PART NUMBER 3P14T...

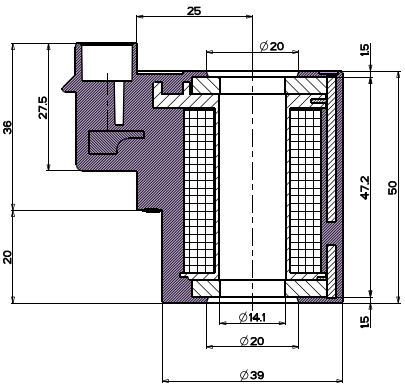


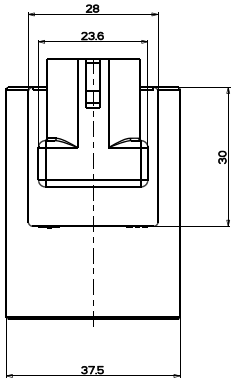




AMP SUPERSEAL

PART NUMBER 3P14S...

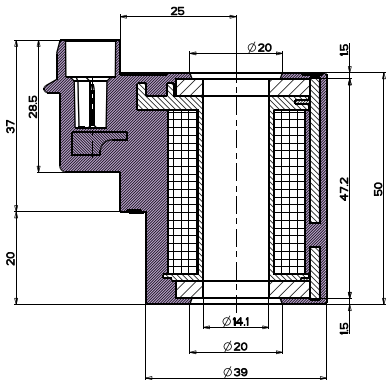


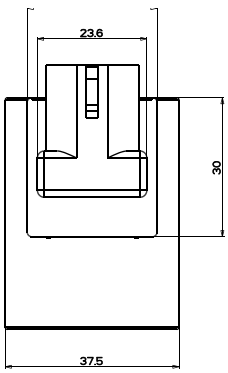




METRIPACK2

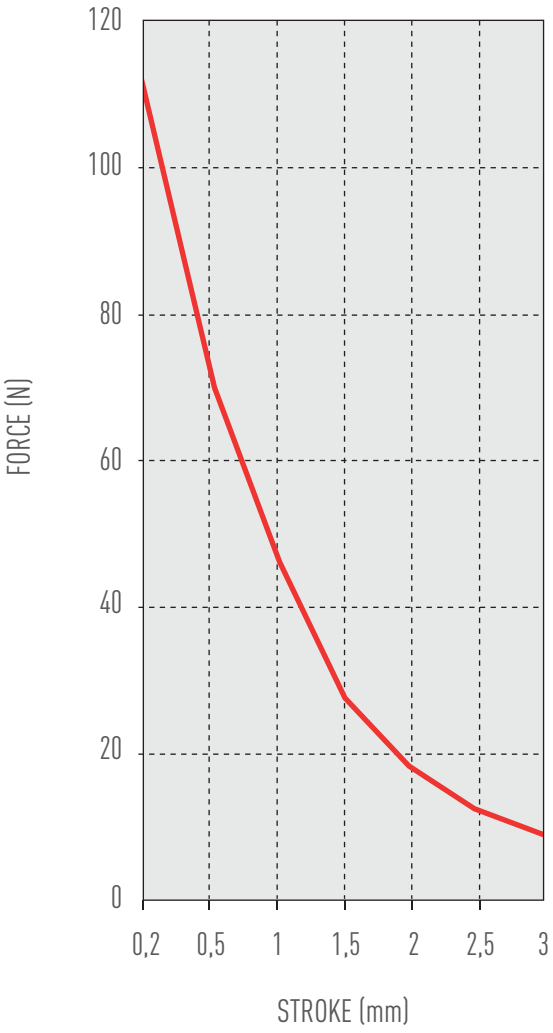
PART NUMBER 3P14M...







EVI 3P/16



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 3P/16

NOMINAL VOLTAGE	POWER	WINDING CODE
12VDC	26W	01
24VDC	26W	01

Coil suitable for hydraulic applications. It can be supplied with different power consumptions according to specific requirements. Available with different types of electric connections. (see side page).

TECHNICAL DATA

Standard power consumption: 26W
Force: see the graph
Duty Cycle: 100% ED (continuous)
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 PA 6-6 or glass filled PBT. Other materials on request.

The coil EVI3P16 has been developed originally by Amisco in 1990 and then got a wide diffusion on the market of hydraulic valves.

ELECTRICAL CONNECTIONS:

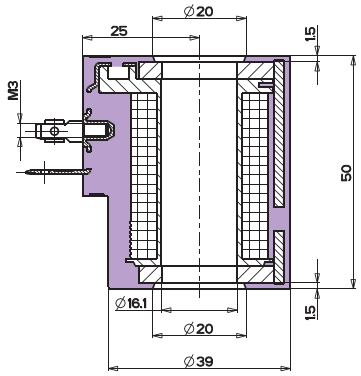
Degree of protection: IP 54 (EN 60529)
With connector and suitable seals it can reach:

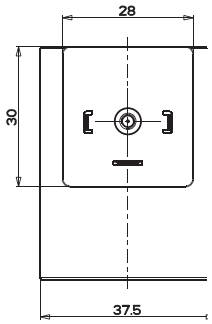
DIN 43650A	IP65
KOSTAL (M27X1)	IP67
FLYING LEADS	IP67
AMP JUNIOR	IP65
DEUTSCH DT04	IP69K
AMP SUPERSEAL	IP69K
METRIPACK2	IP69K
ISO 15170	IP69K

DIN 43650 A (EN 175301-803 ISO 4400)

PART NUMBER 3P16D...

M3 Torque 0,4÷0,6Nm

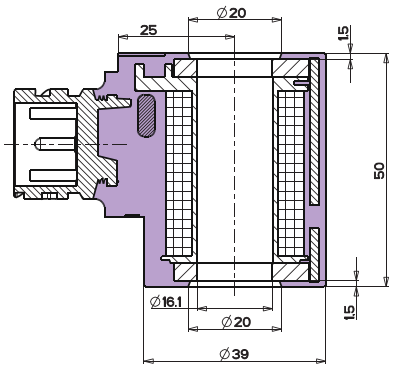


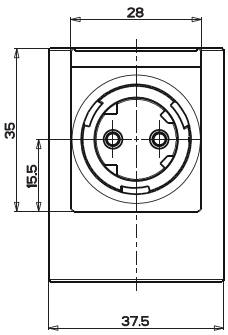




ISO 15170

PART NUMBER 3P16I...

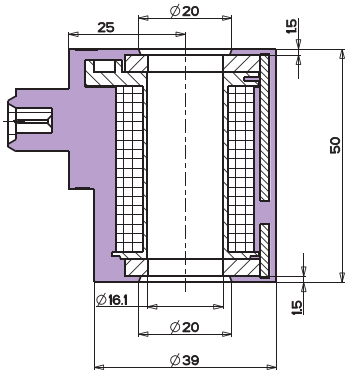


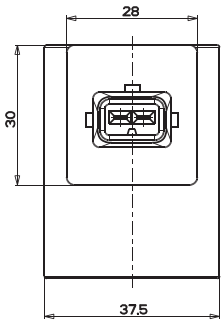




AMP JUNIOR

PART NUMBER 3P16A...

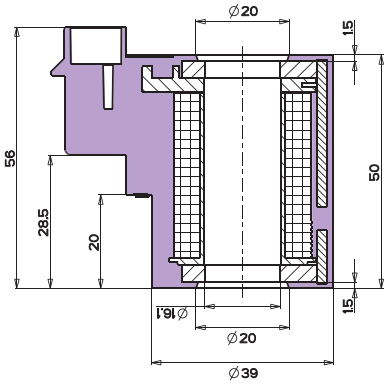


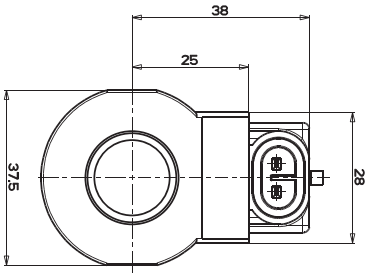




AMP SUPERSEAL

PART NUMBER 3P16S...

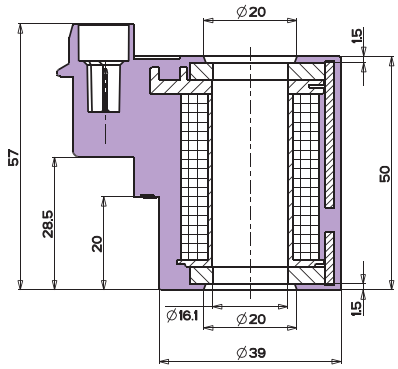


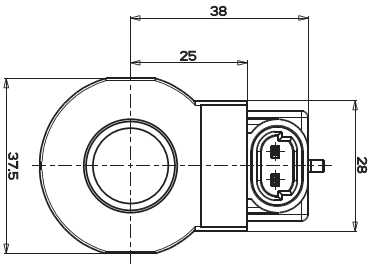




METRIPACK 2

PART NUMBER 3P16M...

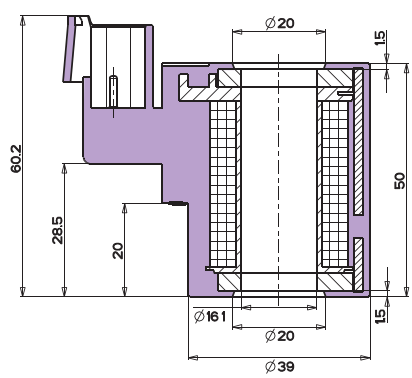


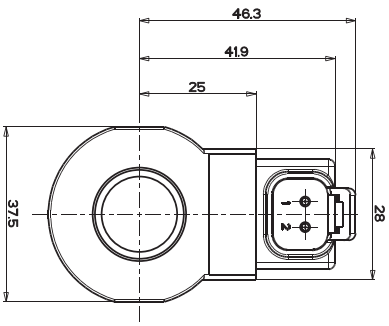




DEUTSCH DT04

PART NUMBER 3P16T...



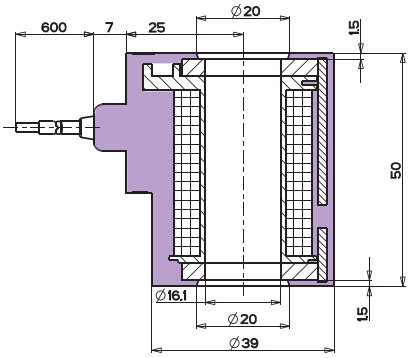


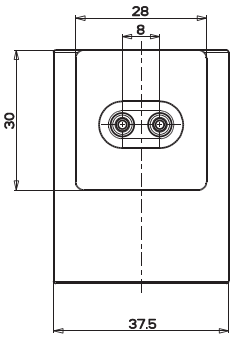


FLYING LEADS

PART NUMBER 3P16C...

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

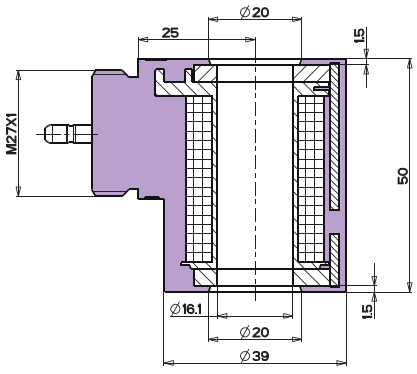


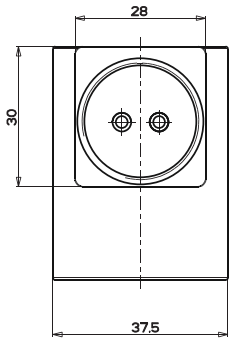




KOSTAL M27X1

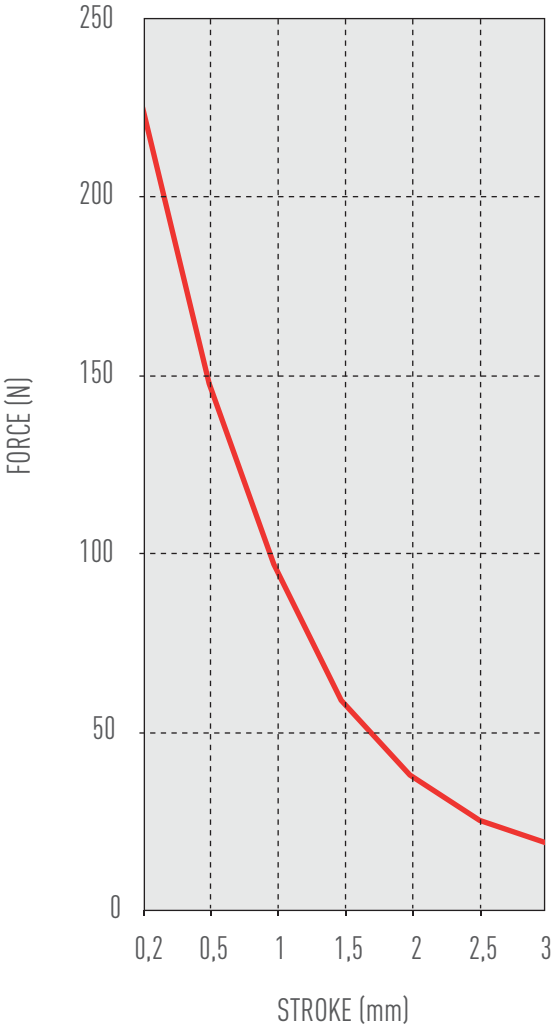
PART NUMBER 3P16K...







EVI 3D/19



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 3D/19

NOMINAL VOLTAGE	POWER	WINDING CODE
12VDC	30W	01
24VDC	30W	01

Coil suitable for hydraulic applications. It can be supplied with different power consumptions according to specific requirements. Available with different types of electric connections. (see side page).

TECHNICAL DATA

Standard power consumption: 30W
Force: see the graph
Duty Cycle: 100% ED (continuous)
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 PA 6-6 or glass filled PBT. Other materials on request.

ELECTRICAL CONNECTIONS:

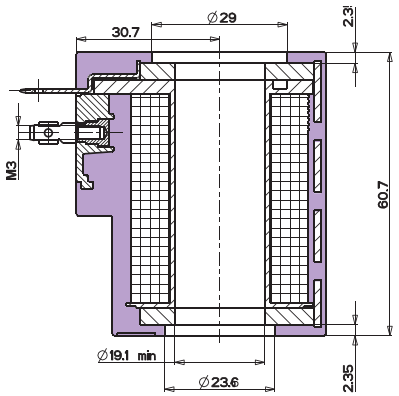
Degree of protection: IP 54 (EN 60529)
With connector and suitable seals it can reach:

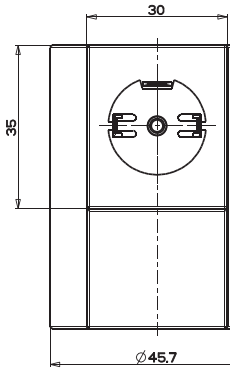
DIN 43650A	IP65
FLYING LEADS	IP67

DIN 43650 A (EN 175301-803 ISO 4400)

PART NUMBER 3D19D...

M3 Torque 0,4÷0,6Nm



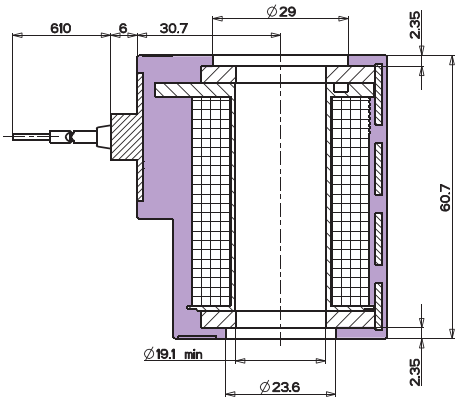


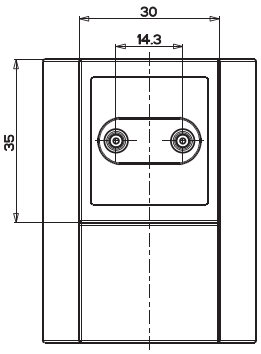


FLYING LEADS

PART NUMBER 3D19C...

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







Certifications

EU DECLARATION OF CONFORMITY

We declare under our sole responsibility that the electric coils and pilot valves families named:

- **EVI 3**
- **EVI 5**
- **EVI 7**
- **EVI 9**
- **EVI 30**
- **10 mm**
- **15 mm**

Marked with Amisco logo and CE marking are in conformity with the following directives:

2011/65/EU (and it's amendment 2015/EU/863)
on the restriction of the use of certain hazardous substances in electrical and electronic equipment

2014/35/EU
on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits

For the evaluation of the conformity, the following standards, or part of them, has been consulted:
EN 60335/1: 2020 - Household and similar electrical appliances - Safety - Part 1: General requirements
DIN VDE 0580: 2011 - Electromagnetic devices and components

Filippo Rotondo
Amisco Technical Division Director

April 07, 2022

Amisco S.p.A.
Via Piaggio 70, 20037, Paderno Dugnano (Italy)
Phone: +39 02 9900181
E-mail: amisco@amisco.it
Website: www.amisco.it

UKCA Declaration of Conformity

We declare under our sole responsibility that the electric coils and pilot valves families named:

- **EVI 3**
- **EVI 5**
- **EVI 7**
- **EVI 9**
- **EVI 30**
- **10 mm**
- **15 mm**

Marked with Amisco logo and UKCA marking are in conformity with to the following directives:

SI 2012/3032
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

SI 2016/1101
Electrical Equipment (Safety) Regulations 2016

For the evaluation of the conformity, the following standards, or part of them, has been consulted:
EN 60335/1: 2020 - Household and similar electrical appliances - Safety - Part 1: General requirements
DIN VDE 0580: 2011 - Electromagnetic devices and components

Filippo Rotondo
Amisco Technical Division Director

January 25, 2022

Amisco S.p.A.
Via Piaggio 70, 20037, Paderno Dugnano (Italy)
Phone: +39 02 9900181
E-mail: amisco@amisco.it
Website: www.amisco.it

This Certificate does not replace the original EAC Document

SERCONS CERTIFICATION AUTHORITY

EAC

CERTIFICATE

In accordance with
SERCONS INTERNATIONAL
Russian Certification Authority in Europe

the company:
AMISCO S.p.A.
Via Piaggio 70,
Paderno Dugnano (MI), 20037
ITALY

fulfills the necessary requirements to be certified according to EAC regulations.

Valid until: 22.05.2023

SERCONS International GmbH
SERCONS
General Director of SERCONS GROUP

SERCONS INTERNATIONAL — Certification Authority
Piazza della Repubblica,32, 20124 MILAN | +39 02 8001 2140| www.SERCONS.ch/it

Certificate of Compliance

Certificate Number 20101224-E343908
Report Reference E343908, 2010 December 23
Issue Date 2010 December 24

Underwriters Laboratories

Issued to: AMISCO SPA

VIA PIAGGIO 70
20037 PADERNO DUGNANO MI ITALY

This is to certify that representative samples of SYSTEMS, ELECTRICAL INSULATION
Class 155(F) insulation system, designated AMIF.

Have been investigated by Underwriters Laboratories Inc.® (UL) or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1446 ,STANDARD FOR SYSTEMS OF INSULATING MATERIALS - GENERAL,Edition 6

Additional Information: See UL On-Line Certification Directory at www.UL.com for additional information.

Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjuction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceeding the recognitions or under "Markings" for the individual recognitions.

Look for the UL Recognized Component Mark on the product

William R. Carney
Director, North American Certification Programs
Underwriters Laboratories Inc.



www.amisco.it

AMISCO S.p.a.
Via Piaggio, 70
20037 Paderno Dugnano (Mi)
Italy

Tel. +39 02.99.00.181
Fax +39 02.99.00.18.60
amisco@amisco.it

Rev. 10/2023