

KSD COIL

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線圈是一種將電能轉換為磁力之元件，其結構為將導電之金屬線繞成環狀，再加上導磁之框架，然後加上保護層及接點而成。

選用電磁閥線圈，有幾點要考慮

- 一、裝配尺寸: 主要有孔徑及高度，配合電磁閥磁管。有些使用狀況，還要看寬度配合其空間。
- 二、電壓: 電壓須配合系統要求。如AC220, 110, 24 50/60HZ(頻率50時功率較大), DC 12, 24等。
- 三、功率(W, VA): 配合電磁閥的大小(流量, 壓力, 溫升等)。
- 四、溫度: 電能轉換為磁力時，一部份做功，一部份發熱，功率愈大，發熱愈大，線圈使用時，溫度會持續升高，到發熱及散熱平衡時，就會停止溫升，這個平衡點，不超過耐溫等級就不會燒壞，可持續用。註記為100% duty或100%ED耐溫等級分為: H級180℃, F級155℃, A級105℃等。
- 五、接線: 有導線，插腳(DIN 43650)等。
- 六、包覆材料: 膠布，塑膠包塑——尼龍(Polyamide), PBT, DMC, PET等，各有不同特性及成本，常用的是尼龍(熱塑性)及DMC(熱固性)。



Coil is a component of converting electrical power to magnetic force. It consists of turns of metal wire wound as a ring with a permeable frame, a protective layer and contacts.

The considerations of solenoid valve coil selection.

1. Assembly dimension: the diameter of hole and the height should be mainly fitted in the solenoid valve magnetic tube.
2. Voltage: Voltage must be compatible with system requirements such as AC220, 110, 24 50/60HZ (the power is larger as the frequency of 50), DC 12, 24 and so on.
3. Power (W, VA): with the solenoid valve require (flow, pressure, temperature, etc.).
4. Temperature: When the electrical energy transfers to magnetic force, mechanical work and the heat would be generated. The larger power, the greater heat. During the coil working, the temperature would rise continuously and stop on heat production and heat dissipation balance. The coil can be worked if the balance is lower than the temperature rating. It is noted as 100% duty or 100% ED. Temperature ratings are H-level 180 °C, F Class 155 °C, A Class 105°C, etc.
5. Connections: The connections are wires, pins(DIN 43650) and so on.
6. Covering Materials: Materials such as tape, encapsulation by plastic-nylon (Polyamide), PBT, DMC, PET, etc., have different characteristics and cost. Nylon (thermoplastic) and DMC (thermosetting) are commonly used materials.



產品目錄 PRODUCTS CONTENTS

Unit:mm

頁碼 PAGE	型號 CODE	寬度 WIDE	孔徑 HOLE	高度 HEIGHT
01	6S, 6N, 6L	17	7.9	23
02	8A, 8D, 8L	22	9.15	29
03	9S, 9A	22	10.2	29/31
04	830	30	9.15	30
05	13C, 13E	30/36	13.2	39
06	13F, 13K	41	13.2	34.5/39
07	14A	32	14.7	37
08	H12, H13	29.5/33	12.3/13.3	29.5/37
09	H14, H16	36.5/37	14.2/16.2	50
10	13G, H16G	33/43.6	13.2/16.2	37/51
11	Connector 接線盒			

Order code

TYPE-VOLTAGE-WALT

Example: 8A-DC24-5W

Power by request

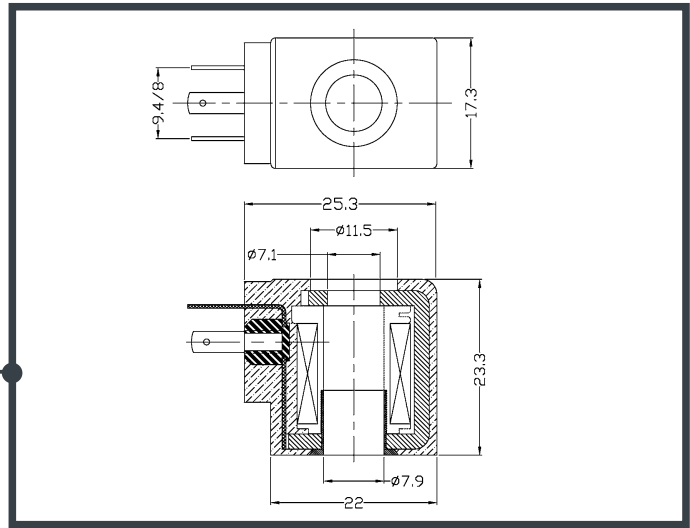
We accept special order and no limit.

訂購型號: Type-電壓-功率

如8A-DC24-5W

功率可隨須要製作

■ W寬17mm, H高23mm,
Hole dia.孔徑7.9 × 7.1mm



6 Series 17mm Coil 6系列 17mm線圈

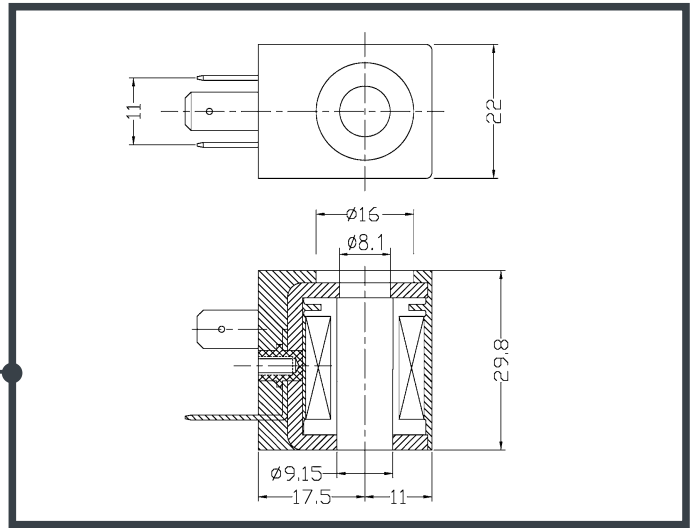
Power up to 4.5W
Normal use power DC 2.5W AC 3.5VA
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

功率 4.5W最大
常用功率 直流2.5W ,交流3.5VA
耐熱等級 F (155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

6S Connector DIN43650C-9.4mm
6N Connector DIN43650C-8mm
6L Lead wire length 50cm UL3266

S接線盒DIN43650C腳距9.4mm
6N接線盒DIN43650C腳距8mm
6L導線50cm長 UL3266

■ W寬22mm, H高29mm,
Hole dia.孔徑9.1 × 8.1mm



8D



8L



8A



8E

8 Series 22mm Coil 8系列 22mm線圈

Power up to 8.5VA
Normal use power DC 5W AC 6VA
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

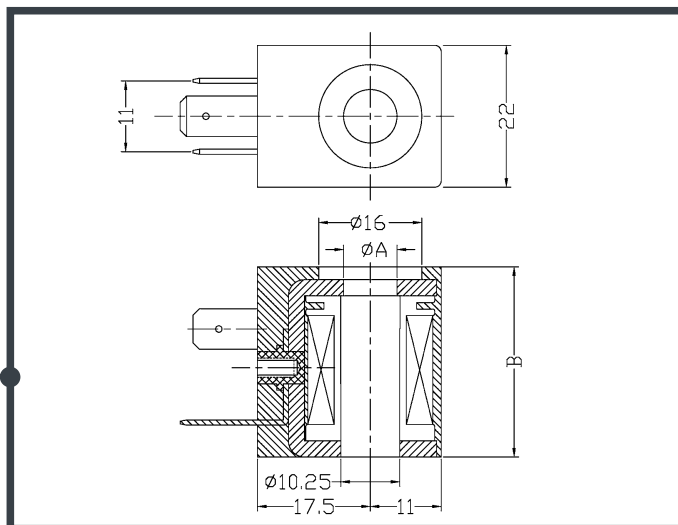
功率 8.5VA最大
常用功率 直流5W ,交流6VA
耐熱等級 F (155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

8A Connector DIN43650B-11mm
8D Connector DIN43650B-10mm
8L Lead wire length 45cm-AEX

8A接線盒DIN43650B腳距11mm
8D接線盒DIN43650B腳距10mm
8L導線45cm長-AEX

8E is encapsulation by thermosetting
8E是熱固性塑料包塑

■ W寬22mm, H高29/31mm,
Hole dia.孔徑10.2 × 8.2/10.2mm



9 Series 22mm Coil

9系列 22mm線圈

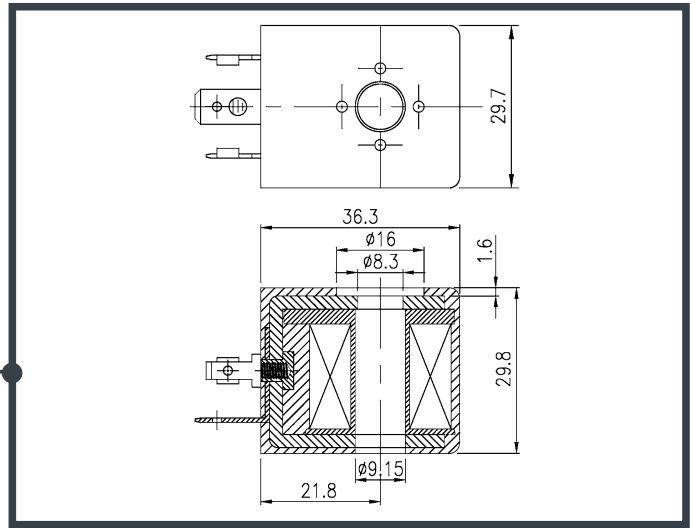
Thermal class F(155℃)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber
glass

耐熱等級 F (155℃)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

Connector DIN43650B-11mm
接線盒DIN43650B腳距11mm

	A-Top hole dia.	B-Height
9S	8.2	29.5
9A	10.2	31

■ W寬30mm, H高30mm,
Hole dia.孔徑9.1 × 8.1mm



8 Series 30mm Coil

8系列 30mm線圈

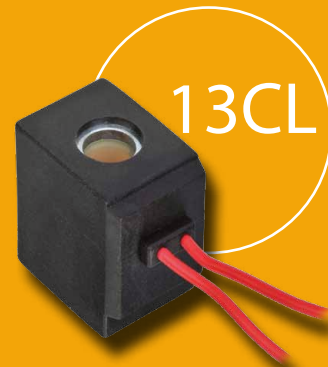
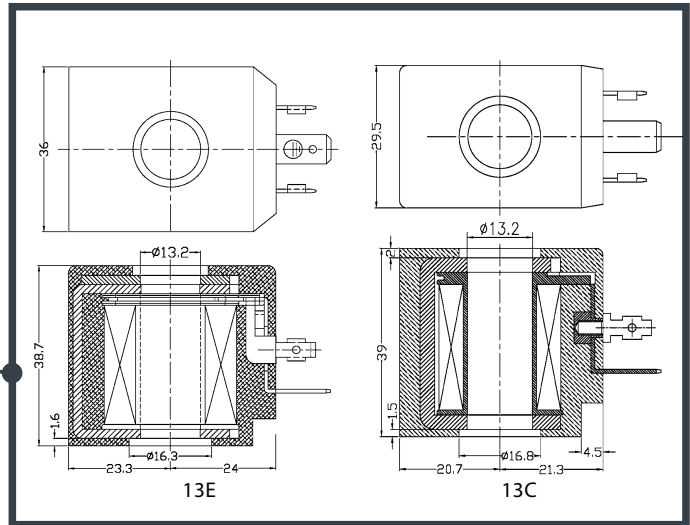
Normal use power DC 10W AC 8VA
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

常用功率 直流10W ,交流8VA
耐熱等級 F (155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

830S Connector DIN43650A
830L Lead wire length 45cm-AEX

830S接線盒DIN43650A
830L導線45cm長-AEX

■ Hole dia. 孔徑 13.2mm



13 Series 39mm Height 13系列 39mm高



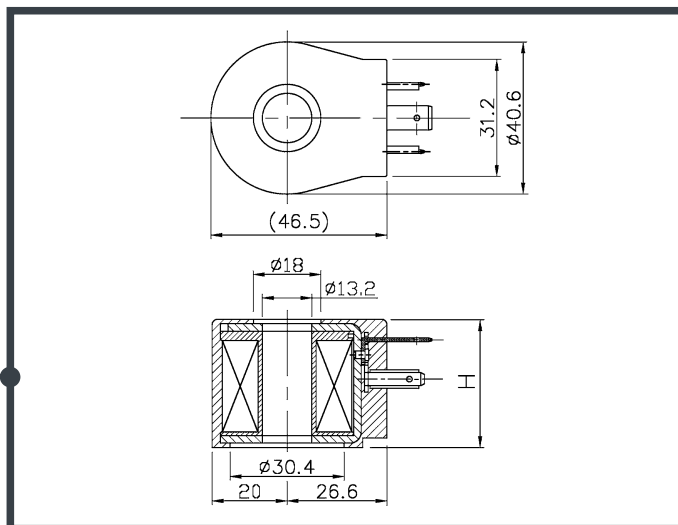
Normal use power:
13C DC 9W AC 14VA
13E DC 26W AC 24VA
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

常用功率:
13C 直流 9W ,交流14VA
13E 直流26W ,交流24VA
耐熱等級 F (155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

Connector DIN43650A
Lead wire-13C is available

接線盒DIN43650A
13C有導線型

■ Hole dia. 孔徑13.2mm



13F



13K

13 Thermosetting Coil

13系列 熱固性線圈

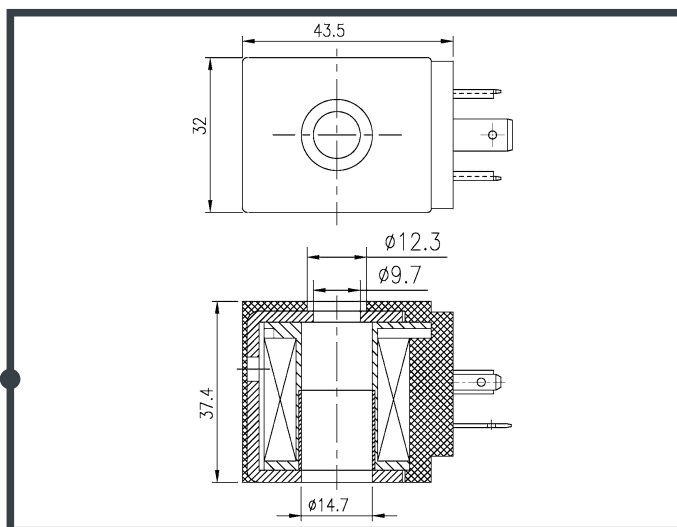
Thermal class F(155℃)
Protection type IP65
100% duty cycle
Encapsulation by thermosetting

耐熱等級 F (155℃)
保護等級 IP65
100% 連續使用
熱固性塑料包塑

Connector DIN43650A
接線盒DIN43650A

	H	AC	DC
13F	34.5	13VA	9W
13K	39	18VA	10W

■ Hole dia. 孔徑 14.7mm



14A Coil

14A 線圈

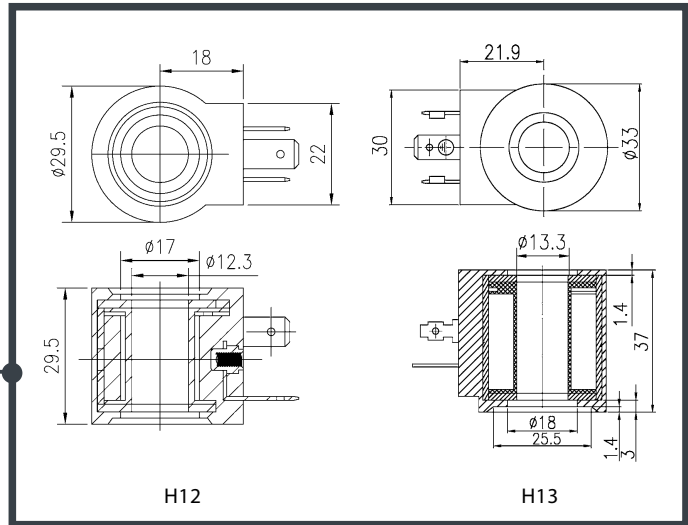
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

耐熱等級 F (155°C)
保護等級 IP65
100% 連續使用
14A含玻纖尼龍包塑

Connector DIN43650A
接線盒DIN43650A



■ H12-Hole 孔12.3mm
H13-Hole 孔13.3mm



Cartridge valve coil 插裝閥線圈

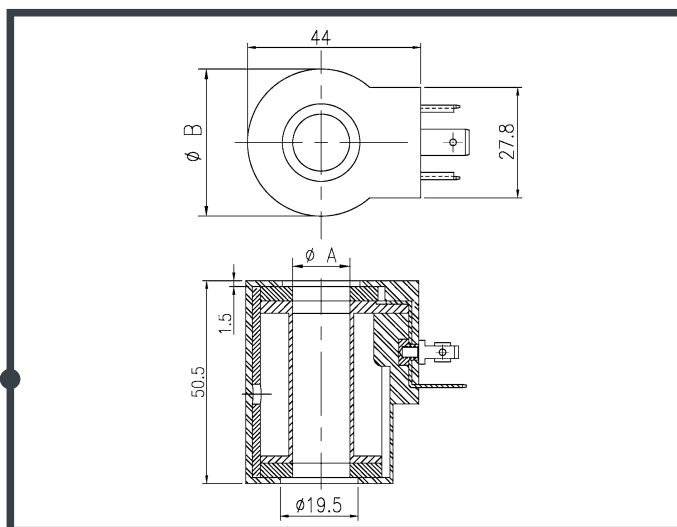
Power up to 25W
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

功率 25W最大
耐熱等級 F(155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

Connector DIN43650A
Lead wire - cable or Teflon wire

接線盒DIN43650A
導線電纜線或鐵弗龍線

■ H14-Hole 孔14.2mm
H16-Hole 孔16.2mm



Cartridge valve coil 插裝閥線圈

Power
H14 DC21W AC28VA
H16 DC26W AC28VA
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass

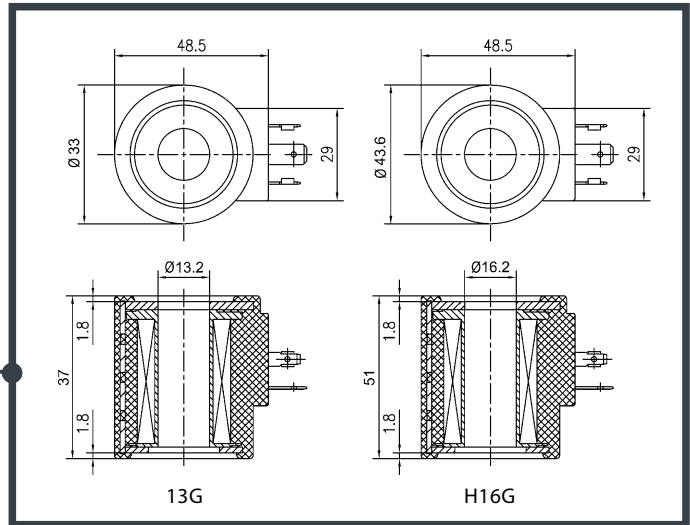
功率
H14 DC21W AC28VA
H16 DC26W AC28VA
耐熱等級 F(155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

Connector DIN43650A
接線盒DIN43650A

	A-hole dia.	B-outside dimension
H14	14.2	36.5
H16	16.2	37

19 mm hole coil and RAC coil is available
19mm孔和RAC線圈可供應

■ 13G-Hole 孔13.2mm
H16G-Hole 孔16.2mm



13G



H16G



13GL



H16GL

Cartridge valve coil 插裝閥線圈

Power
13G DC14.7W
H16G DC20W
Thermal class F(155°C)
Protection type IP65
100% duty cycle
Encapsulation by polyamide fiber glass
AC power with rectifier is available

功率
13G DC14.7W
H16G DC20W
耐熱等級 F(155°C)
保護等級 IP65
100% 連續使用
含玻纖尼龍包塑

Connector DIN43650A
Lead wire UL3173-18#
接線盒DIN43650A
導線 UL3173-18#



43650A有RAC

Customer special order part

◀ 客戶訂製品



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