

AM系列限位开关盒

AM series limit switch box



材质

机体：压铸铝合金实体，镀镍
顶盖：阻燃与防紫外线聚酯碳酸酯
旋转轴：加固techno polymer复合材料
螺栓：不锈钢

MATERIALS

Body : die cast aluminium nickel plated
Cover : UV resistant and V0 polycarbonate
Shaft : reinforced techno polymer
Fasteners : stainless steel

额定参数

温度范围：标准范围为-15℃~+80℃
温度范围随开关的不同工作范围而变化
电气特性：取决于开关的具体类型

RATINGS

Temperature range: standard -15℃+80℃
Temp. range may vary due to switch range
Electrical: according to switch option

防护等级

IP65和Nema 4 及4X防护等级

WEATHER PROOF

IP65 and Nema4 and 4X weather proof enclosure.

SOLDO AM系列限位开关盒为旋转阀门/执行器的就地位置指示及远程电气位置指示提供紧凑的设计及最经济的解决方案。它集成了NAMUR安装支架，无需独立的安装支架，因此节约了相关成本。丰富的开关选项又使AM系列在IP65防护等级应用和本质安全应用中成为理想的限位开关盒。

可视指示器

AM开关盒标配带有一个扁平可视位置指示器，使用它可以查看阀门的实时位置，根据要求我们还可以提供带有3D位置指示的AM限位开关盒，以便从顶部与侧面查看阀门的实时位置。

一体化安装支架

AM机壳的一体化安装支架腿和驱动轴都符合Namur VDI/VDE3845国际尺寸标准，任何VDI/VDE3845执行器，都会找到适合AM系列开关盒的单一可调滑动支架。30x80和30x130两个顶面以及20mm，30mm，40mm和50mm齿轮高度就都可以适用于这个单一支架。同时AM系列还具有低成本（不需要开关或执行器耦合器）和高度互换性的特点。

抗震外壳

使用压铸铝合金机体，内部及外部均镀镍，使用阻燃与防紫外线聚酯碳酸酯顶盖，可适应恶劣的环境条件。同时外壳带有防脱螺丝。

接线盒

AM系列产品可为外部电磁阀额外配备接线排，并具有两个M20*1.5线缆接口（1/2"npt/f或PG13.5可供选择）。它的这一特性使其无需独立接线盒，也节约了相关人力需求，因此可以大幅削减成本。线缆接口的螺纹厚度达15mm, 这样大幅度地降低了因为线缆或线缆接头过重而导致的壳体损坏。

高精度花键凸轮

易设定的凸轮通过花键式弹簧支撑，安装简单且可独立调节。该设计具有无工具校准和主动防震功能。

The SOLDO AM series limit switch box provides a compact design and the most economical solution for both visual and remote electrical indication of rotary valve/actuator position. Integral NAMUR mounting legs provide additional cost saving by eliminating the need for a separate mounting bracket. The switch options available make the AM series suitable for use in IP65 weather proof applications and also intrinsically safe applications.

VISUAL INDICATOR

AM switchboxes mounts as standard a flat visual position indicator in order to see real valve position; on request we can also supply the AM limit switch box complete of 3D position indicator in order to see the real valve position both looking from top and from side.

INTEGRAL MOUNTING BRACKET

AM housing incorporates integral mounting legs and drive shaft that conform to NAMUR VDI/VDE3845 international dimension standards. Using a single adjustable sliding bracket it is possible to fit AM switchboxes onto any VDI/VDE3845 actuator. Both 30x80 and 30x130 top pattern and 20mm, 30mm, 40mm and 50 mm pinion height can be matched with a single bracket. This maximizes interchangeability plus reduces cost by eliminating need for bracket and coupler.

SHOCK RESISTANT HOUSING

Die cast aluminium body and nickel plated inside and outside and V0 and VU resistant polycarbonate cover, make this unit ideal for use in hostile environments. Housing has captive screws

JUNCTION BOX

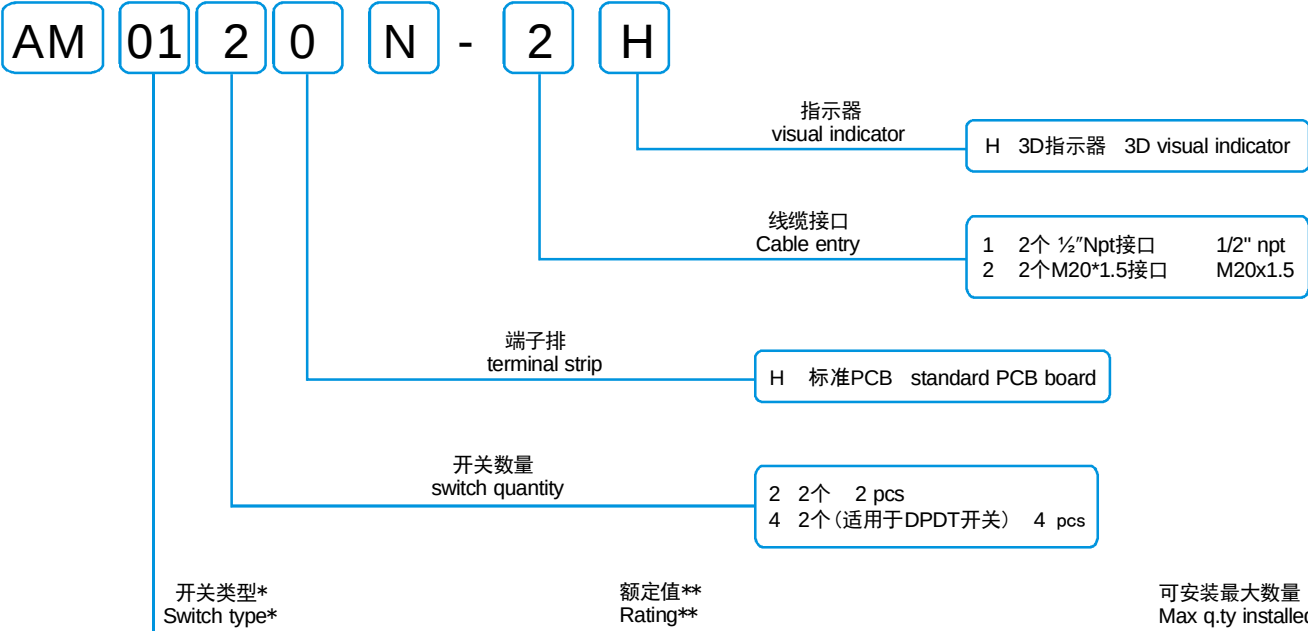
AM series can be provide with extra terminal strip to accomodate external solenoid valve and has two M20x1.5 (1/2"npt f as option) cable entries. This feature provides a significant cost saving by eliminating the need for a separate junction box and associated labour. Cable entries has a 15 mm thread thickness, this feature prevents housing damage due to very heavy cables or cable glands.

HIGH RESOLUTION SPLINED CAMS

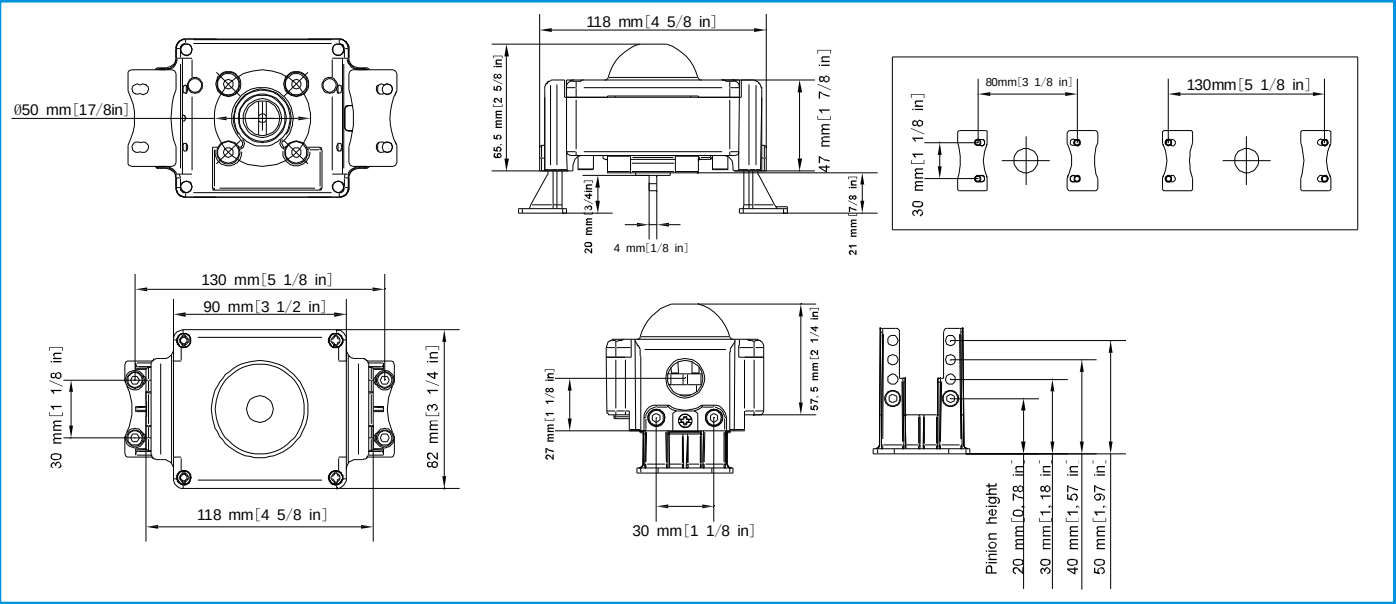
Easy-set cams are splined and independently adjustable. This design offers tool free calibration and positive vibration resistant engagement.

AM系列限位开关盒

AM series limit switch box



00	机械式SPDT镀银触点 electromech SPDT silver plated contacts	最大5A@250VAC-3A@24VDC最小50mA@250VAC-50mA@24VDC max 5A@250VAC - 3A@24VDC min 50mA@250VAC - 50mA@24VDC	2 2
01	机械式DPDT镀银触点 electromech DPDT silver plated contacts	最大5A@250VAC-3A@24VDC最小50mA@250VAC-50mA@24VDC max 5A@250VAC - 3A@24VDC min 50mA@250VAC - 50mA@24VDC	2 2
73	接近式PNP NO P+F NBB2 V3 E2 proximity PNP NO P+F NBB2 V3 E2	3线制放大,10-30VDC,100mA 3 wire amplified, 10-30VDC, 100mA	2 2
75	接近式NO/NC可编程IFM IS5026 proximity NO / NC programmable IFM Is5026	2线制放大,5-36VDC,200mA 2 wire amplified, 5-36VDC, 200mA	2 2
83	接近式NO P+F NBB3 V3 Z4 proximity NO P+F NBB3 V3 Z4	2线制放大,5-60VDC,100mA 2 wire amplified. 5-60VDC, 100mA	2 2



型号	开关类型	额定值	线缆接口	¥
AM014A0-2H	机械式 2*DPDT	最大5A@250VAC-3A@24VDC最小50MA@250VAC-50MA@24VDC	2个M20*1.5	600

SP系列限位开关盒

SP series limit switch box



材质

机体： 阻燃聚酯碳酸酯
盒盖： 防紫外线和阻燃聚酯碳酸酯
旋转轴： 加固techno polymer复合材料
螺栓： 不锈钢

MATERIALS

Body : V0 reinforced Polyphenil Ether
Cover : UV resistant and V0 polycarbonate
Shaft : reinforced techno polymer
Fasteners : stainless steel

额定参数

温度范围： 标准-15°C~+80°C
温度范围随开关的不同工作范围而变化
电气特性： 取决于开关的具体类型

RATINGS

Temperature range: standard -15°C~+80°C
Temp. range may vary due to switch range
Electrical: according to switch option

防护等级

IP65和Nema 4 及4X防护等级

WEATHER PROOF

IP65 and Nema4 and 4X weather proof enclosure.

SOLD O Sp系列限位开关盒拥有紧凑型设计，和低成本旋转阀（执行器）可视电子遥控位置指示器。由于不需要单独安装支架，所以集合NAMUR支架腿又可节省额外的成本。可选开关使SP系列适用于IP65防水应用和本质安全应用设备。

紧凑设计

为了减少总体尺寸，SP系列开关盒被设计为紧凑型开关盒，从执行器齿轮轴开始测量，总高度为76MM，因此SP系列是所有小尺寸执行器（包括最小尺寸执行器）的最佳选择。

一体化安装支架

SP机壳的一体化安装支架腿和驱动轴都符合Namur VDI/VDE3845国际尺寸标准，任何VDI/VDE3845执行器，都会可能找到适合SP系列开关盒的单一可调滑动支架。30x80和30x130两个顶面以及20mm，30mm，40mm和50mm齿轮高度就都可以适用于这个单一支架。同时SP系列还具有低成本（不需要开关或执行器耦合器）和高度互换性的特点。

防腐蚀

SP开关盒是由高技术强化物制成的，防紫外线和阻燃聚酯碳酸酯外壳，且经VO强化的PPE机身使它可耐高机械强度。树脂结构又使这个单元成为恶劣环境下的理想选择。同时机壳配有防脱落的外盖螺丝。

高厚度线缆接口

SP开关盒提供两个M20*1.5线缆接口（1/2"npt/f或PG13.5可供选择）。SP线缆接口有一个15MM（1/2"）厚的螺纹。这一特点可防止因为线缆或线缆接头过重而导致的壳体损坏。

高精度花键凸轮

易设定的凸轮通过花键式弹簧支撑安装及可独立调节，这种设计具有免工具校准功能和主动防震功能。

The SOLD O SP series limit switch box provides a compact design and the most economical solution for both visual and remote electrical indication of rotary valve/actuator position. Integral NAMUR mounting legs provide additional cost saving by eliminating the need for a separate mounting bracket. The switch options available make the SP series suitable for use in IP65 weather proof applications and also intrinsically safe applications.

COMPACT DESIGN

SP switchboxes have been engineered in order to reduce overall dimensions. Total height from actuator pinion is 76 mm with a standard SP unit. It is ideal for use on all size actuators including very small units.

INTEGRAL MOUNTING BRACKET

SP housing incorporates integral mounting legs and drive shaft that conform to NAMUR VDI/VDE3845 international dimension standards. Using a single adjustable sliding bracket it is possible to fit SP switchboxes onto any VDI/VDE3845 actuator. Both 30x80 and 30x130 top pattern and 20mm, 30mm, 40mm and 50 mm pinion height can be matched with a single bracket. This maximizes interchangeability plus reduces cost by eliminating need for bracket and coupler.

CORROSION RESISTANT

SP switchboxes are made of high tech reinforced polymers. UV resistant and V0 polycarbonate cover and V0 reinforced PPE body provide a very high mechanical resistance. The resin construction makes this unit ideal for use in hostile environments. The housing also incorporates captive cover screws.

HIGH THICKNESS CABLE ENTRY

SP switch box is provided with a M20x1.5 (1/2"npt/f or PG 13.5 option) thickness thread. This feature prevent housing damage due to very heavy cables or cable glands. No back nut are required to fit cable glands.

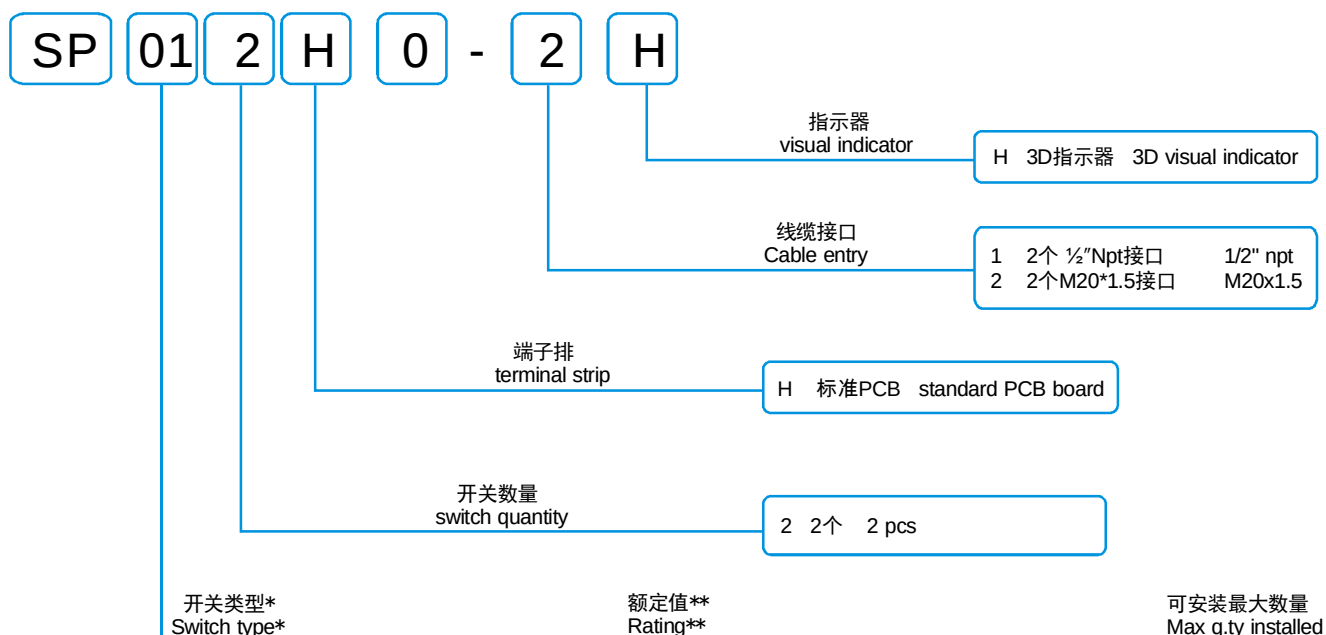
HIGH RESOLUTION SPLINED CAMS

Easy-set cams are splined and independently adjustable. This design offers tool free calibration and positive vibration resistant engagement.

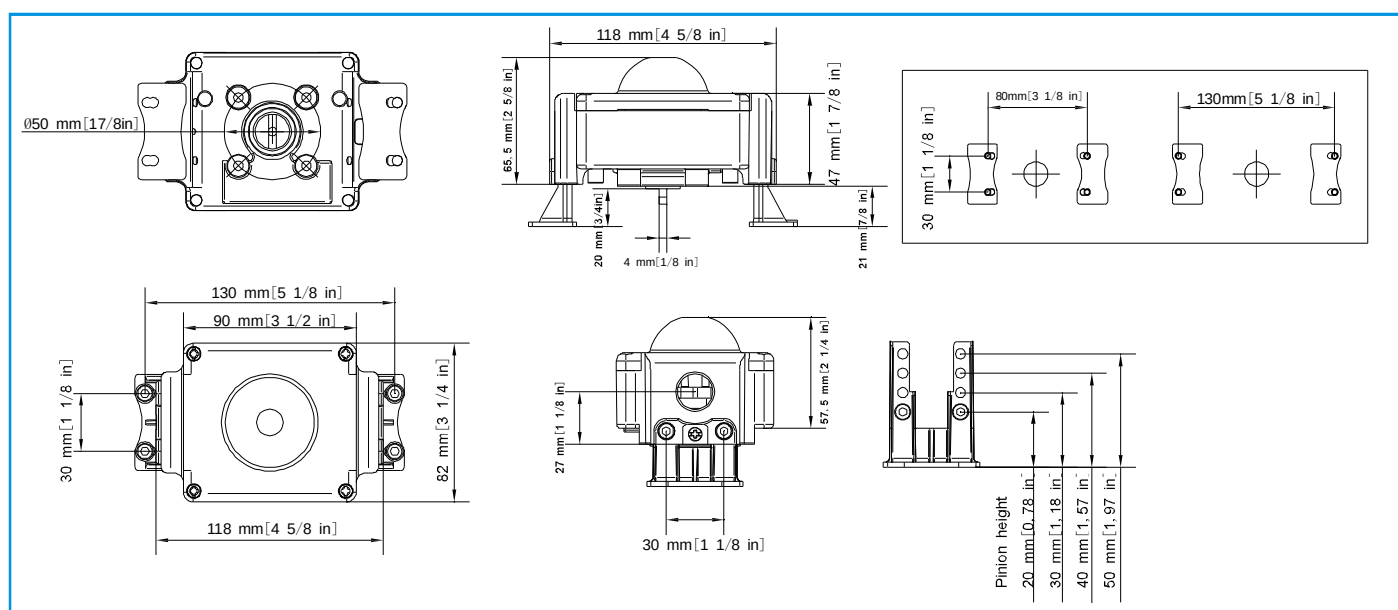
SP系列限位开关盒



SP series limit switch box



01 机械式SPDT镀银触点 electromech SPDT silver plated contacts	最大5A@250VAC-3A@24VDC最小50mA@250VAC-50mA@24VDC max 5A@250VAC - 3A@24VDC min 50mA@250VAC - 50mA@24VDC	2 2
03 机械式SPDT镀金触点 electromech SPDT gold plated contacts	最大3A@250VAC-1A@24VDC最小5mA@250VAC-1mA@24VDC max 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC	2 2
73 接近式PNP NO P+F NBB2 V3 E2 proximity PNP NO P+F NBB2 V3 E2	3线制放大,10-30VDC,100mA 3 wire amplified, 10-30VDC, 100mA	2 2
75 接近式NO/NC可编程IFM IS5026 proximity NO / NC programmable IFM Is5026	2线制放大,5-36VDC,200mA 2 wire amplified, 5-36VDC, 200mA	2 2
83 接近式NO P+F NBB3 V3 Z4 proximity NO P+F NBB3 V3 Z4	2线制放大,5-60VDC,100mA 2 wire amplified. 5-60VDC, 100mA	2 2



型号	开关类型	额定值	线缆接口	¥
SP012H0-1ZW00R1	机械式 2*SPDT	最大5A@250VAC-3A@24VDC最小50mA@250VAC-50mA@24VDC	2个1/2"NPT	550

SX系列限位开关盒

SX series limit switch box



材质

机体及盒盖：压铸铝，涂附树脂粉末
指示器圆顶：抗紫外线及阻燃聚酯碳酸酯
旋转轴：不锈钢
螺栓：不锈钢

额定参数

环境温度范围：-25°C~+60°C (T6)
-25°C~+80°C (T5)
-25°C~+105°C (T4)

根据要求可提供-40°C低温型
温度范围会随开关的不同工作范围而变化
电气特性：取决于开关的具体类型

MATERIALS

Body and cover : die cromated and polyester powder coated aluminium
Indicator dome : UV resistant and V0 polycarbonate
Shaft : stainless steel
Fasteners : stainless steel

RATINGS

Ambient temperature range : -25°C~+60°C
-25°C~+80°C
-25°C~+105°C
Temp. range may vary due to switch range.
Electrical: according to switch option

SOLDO SX系列限位开关盒为旋转阀门/执行器的就地位置指示及远程电气指示提供了紧凑而经济的设计。厚重的外壳使它可在危险区域使用。丰富的开关选项使SX系列成为适用于EExd IIB应用的理想多用途限位开关。

防爆及防护等级

SX系列具有IP67防护等级。

SX系列产品通过ATEX防爆认证 II 2G/D Exd IIB T4/T5/T6 ExtD B21 T135°C/100°C/85°C, 证书编号：ITS09 ATEX 16281X。

SX系列产品通过IEC Ex防爆认证 Exd IIB T4/T5/T6Gb ExtD B21 135°C/100°C/85°C, 证书编号：IECEXITS 09 0020X。

铝质外壳

外部涂附聚酯粉末，内部为压铸铝和不锈钢轴，使SX系列成为恶劣环境下的理想应用装置。盒盖使用了防脱螺丝，在进行校验时可以避免螺丝丢失。大尺寸3D位置指示器

SX系列产品标配带有双色3D位置指示器，方便从阀门的顶部或侧面观测阀门的真实位置。指示器安装在使用花键连接的固定架上，因此可以进行精细而便利的调节。

接线盒

SX系列产品为连接外部电磁阀额外配备接线排，且有3个线缆接口：两个1/2"npt/f (M20x1.5可选) 和一个3/4 npt/f(M25x1.5可选)。它的这一特性使其无需独立接线盒，也节约了相关人力需求，因此可以大幅削减成本。端子排有多种特性可供选择：蓝色或绿色，箱夹防震固定或螺丝固定。

高精度花键凸轮

易设定的凸轮通过花键式弹簧支撑，安装简单且可独立调节。该设计具有免工具校准和主动防震功能。

开关选项

SX系列产品可配备不同类型的开关，它们包括：单刀双掷SPDT或双刀双掷DPDT机械式镀银或镀金触点开关；圆柱式、V3或插槽式感应接近式开关（均为感应式Namur两线制、NPN或PNP开关），SPDT或DPDT使用惰性气体密封的磁感应开关；它还可配备AS-I数字通讯接口卡，三位置球形控制、2线式4-20mA电流位置传感器。

国际标准的连接尺寸

外壳符合VDI/VDE3845国际尺寸标准、输出轴尺寸标准以及ISO F05螺栓孔位置标准。使用这种安装方式可以使部件的互换性最大化，由于开关/执行器无需耦合器，这也大大削减了成本。对于气动执行器（标准或非标准）或杠杆操作阀上，都可以提供SX产品安装使用的全系列不锈钢安装套件。

不锈钢双轴设计

SX系列产品采用了双轴设计，其中的一个轴密封在机体内，另一个密封在盖子内。这样盖子的移除简单快捷，无需每次移除盖子时对指示器进行调节。

The SOLDO SX series hazardous location limit switch provides a compact design and low cost for both visual and remote electrical indication of rotary valve/actuator position. The heavy duty design and wide variety of options make the SX series the ideal multipurpose limit switch for use in EEx d IIB applications. SOLDO has the flexibility and know how to offer an effective support whenever specific needs require the development of customised solutions.

EXPLOSION PROOF AND WEATHER PROOF

SX series are ATEX explosion proof II2D/G EEx d IIB T4/T5/T6 and water proof IP67. Optional EEx d IIB + H2 or Nema4, 4X, 7&9 available on request.

ALUMINIUM HOUSING

The external polyester powder coating and internal die cromating plus stainless steel shaft, make this unit ideal for use in hostile environments. Housings include captive cover screws to permit calibration without potential for losing screws.

HIGH SIZE 3D POSITION INDICATOR

SX series mounts as standard a large two-colours 3D position indicator; it is easy to see real valve position both looking from top and from side of the valve. Indicator is mounted on a splined retainer in order to be finely and easily adjusted.

JUNCTION BOX

SX series can be provided with extra terminal strip to accommodate external solenoid valve and has three cable entries: two 1/2"npt/f (M20x1.5 as option) + one 3/4"npt/f (M25x1.5 as option) This feature provides a significant cost saving by eliminating the need for a separate junction box and associated labour. Several terminal strip option are available: blue or green colour, cage clamp anti vibration or screw type.

HIGH RESOLUTION SPLINED CAMS

Easy-set cams are splined spring loaded and independently adjustable. This design offers tool free calibration and positive vibration resistant engagement.

SWITCH OPTIONS

SX series can be provided with different types of switches: SPDT or DPDT electromechanical silver plated or gold plated contacts; cylindrical, V3 or slot type inductive proximity (all inductive Namur 2 wire or NPN or PNP); SPDT or DPDT magnetic proximity inert gas sealed. AS-I digital communication interface card, 3 position dribble control, 2 wire 4-20mA current position transmitter.

SX系列限位开关盒



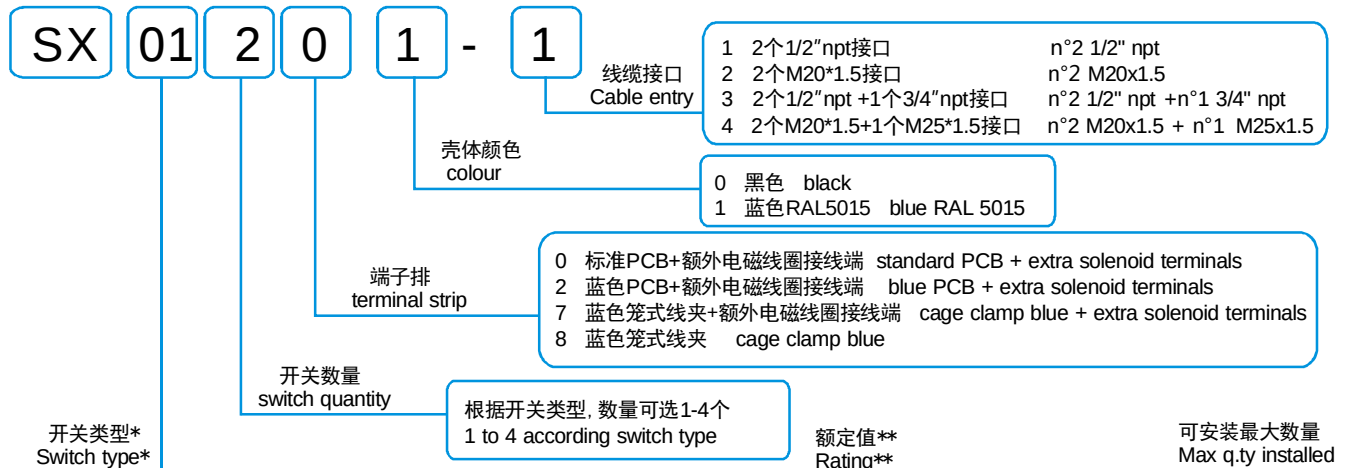
SX series limit switch box

STANDARDISED MOUNTING

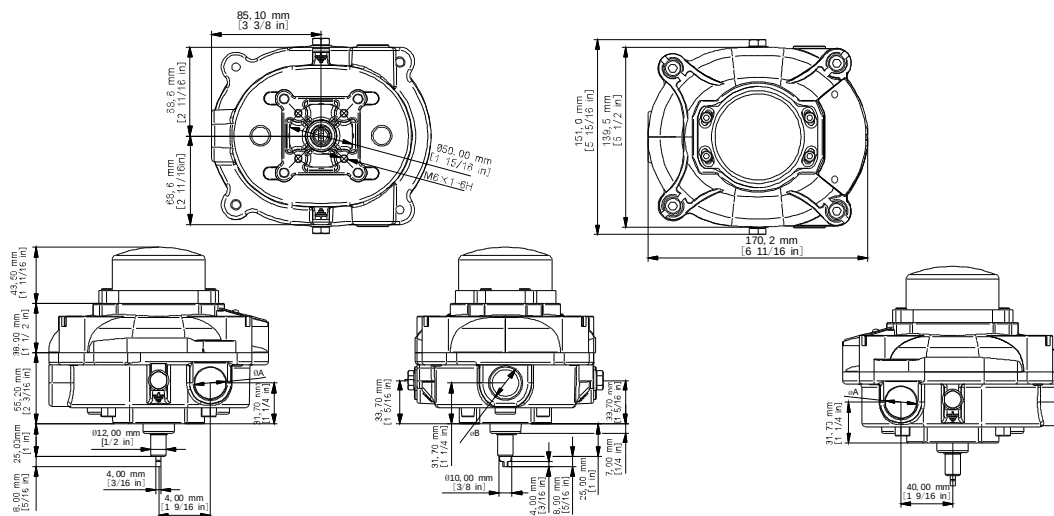
Housing conforms to international dimension standards VDI/VE3845 output shaft dimensions and ISO F05 bolt hole locations. This maximizes interchangeability plus reduces cost by eliminating need for switch/actuator coupler. A complete range of stainless steel mounting kit to fit SX both on pneumatic actuators (standardised or not) and on lever operated valves is available.

SST TWIN SHAFT DESIGN

SX series provides a twin shaft design, one shaft is sealed and fitted into body and another shaft is fitted and sealed into cover. This feature allows an easy and fast cover removal without need of indicator adjustment every time cover is removed.



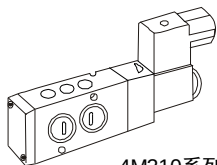
开关类型* Switch type*	额定值** Rating**	可安装最大数量 Max q.ty installed
01 机械式SPDT镀银触点 electromech SPDT silver plated contacts	最大5A@250VAC-3A@24VDC最小50mA@250VAC-50mA@24VDC max 5A@250VAC - 3A@24VDC min 50mA@250VAC - 50mA@24VDC	4
02 机械式SPDT镀金密封触点 electromech SPDT gold plated contacts hermetically sealed	最大3A@250VAC-1A@24VDC最小5mA@250VAC-1mA@24VDC max 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC	4
03 机械式SPDT镀金触点 electromech SPDT gold plated contacts	最大3A@250VAC-1A@24VDC最小5mA@250VAC-1mA@24VDC max 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC	4
C3 接近式SPST分流惰性气体密封 proximity SPST bifurcated inert gas hermetically sealed	最大1.5A@120VAC-0.5A@24VDC (电阻/电感) max 1.5A@120VAC - 0.5A@24VDC (resistive/inductive)	4
C4 接近式SPDT惰性气体密封 proximity SPDT inert gas hermetically sealed	最大1A@120VAC-1A@24VDC-最大25W max 1A@120VAC - 1A@24VDC - max 25W	4
32 接近式常开 P+F NBN4 12GM40 ZO proximity NO P+F NBN4 12GM40 ZO	2线放大, 5-60VDC, 2-100mA 2 wire amplified, 5-60VDC, 2-100mA	2
73 接近式PNP 常开 P+F NBB2 V3 E2 proximity PNP NO P+F NBB2 V3 E2	3线放大, 10-30VDC, 100mA 3 wire amplified, 10-30VDC, 100mA	4
75 接近式常开/常关可编程IFM IS5026 proximity NO / NC programmable IFM Is5026	2线放大, 5-36VDC, 200mA 2 wire amplified, 5-36VDC, 200mA	4
83 接近式常开 P+F NBB3 V3 Z4 proximity NO P+F NBB3 V3 Z4	2线放大, 5-60VDC, 100mA 2 wire amplified, 5-60VDC, 100mA	4
91 4-20mA转换器 4-20 mA transmitter	10-30VDC 直接反作用 10-30VDC direct - reverse action	1
1F 机械式DPDT electromechanical DPDT	最大5A@250VAC -5A@24VDC max 5A@250VAC -5A@24VDC	2



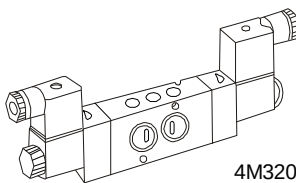
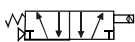
型号	开关类型	额定值	线缆接口	¥
SX1F200-1	机械式 2*DPDT	最大 5A@250VAC-5A@24VDC	2个1/2"NPT	1500

4M系列电磁阀

4M series solenoid valve



4M310系列 4M310 Series



4M320系列 4M320 Series



型号 Type	4M310-08	4M320-08	4M310-10	4M320-10
材质 Material	阀体：铝合金	密封：NBR	Body: Aluminum alloy	Seals:NBR
位置数 Function	二位五通 5 port 2 position			
有效截面积 Eff.sectional Area	25m ² （ CV=1.4 ）		30m ² （ CV=1.68 ）	
接管口径 Pipe Size	进气 =出气 =排气 =G1/4" Inlet=Outlet=Exhaust=G1/4"		进气 =出气 =G3/8" Inlet=Outlet=G3/8"	排气 =G1/4" Exhaust=G1/4"
工作介质 Fluids	经 40 微米过滤的空气 After 40 micron filtration of air			
动作方式 Action mode	内部先导式 Internal Pilot			
使用压力 Working Pressure	0.15-0.8Mpa			
最大耐压力 Max.pressure	1.2Mpa			
工作温度 Working temperature	5-50 ℃			
电压范围 Permissible Voltage Variation	±10 %			
耗电量 Power consumption	AC : 5.5VA DC : 4.8W			
绝缘性及防护等级 Coil insulation and Protection with connedor	F级别 IP65 F-class IP65			
接线形式 Connection form	出线式或端子式 Flying Leads or terminal type			
最高动作频率 Max.working frequency	每秒五次 5C/sec			
最短励磁时间 Minimum excitation time	0.05 秒 0.05 Seconds			

选型表 Ordering No.

4M

3

10

—

08

B

—

AC220V

—

EX

规格代码 SPEC code

4M: 5/2、3/2电磁阀
5/2、3/2 solenoid valve

系列代码
valve series

300系列
300 series

线圈 Coil

10: 单头 Single Coil
20: 双头 Dula Coil

接管口径 Pipe Size

08: G1/4"
10: G3/8"

接管形式 Connections Type

空白: 管接式
Blank: Pipe Connection
B: 二位五通板接式
B: 5/2 Plates interface type

标准电压 Standard Voltage

DC24V
AC110V 50HZ/60HZ
AC220V 50HZ/60HZ
AC380V 50HZ/60HZ

空白: 普通
blank: ordinary
EX: 防爆
EX: Explosion proof

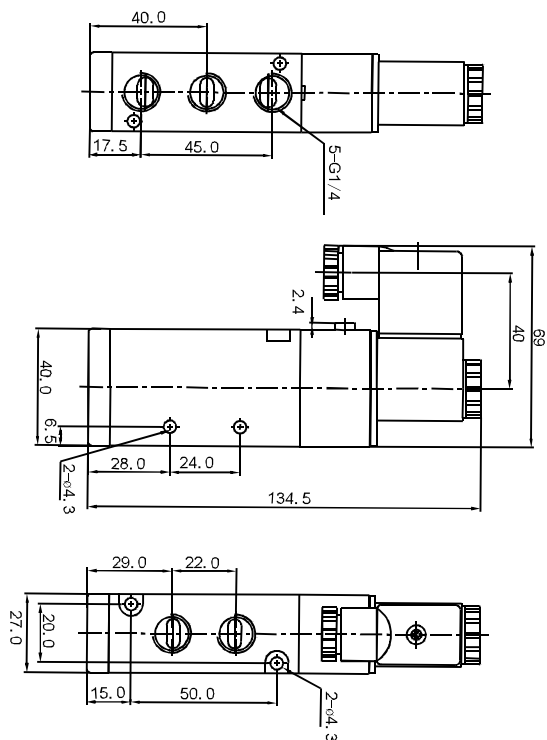
注：如需其它电压请详询。

www. adesun. com

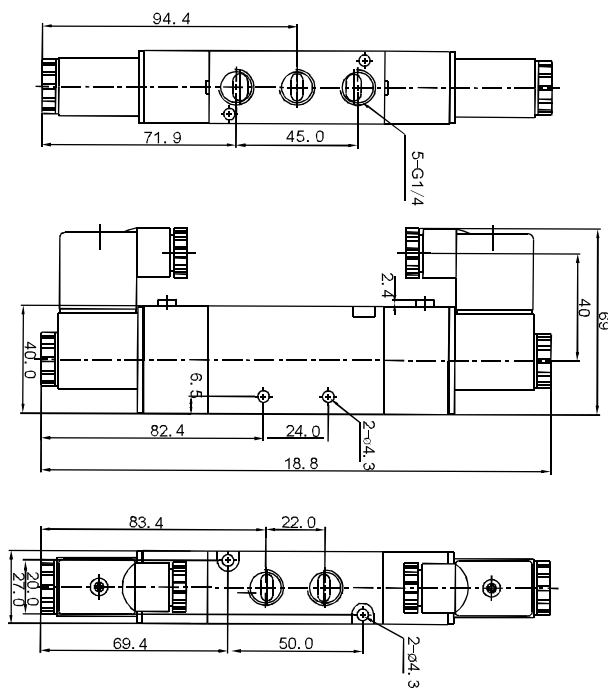
外形尺寸 SIZE



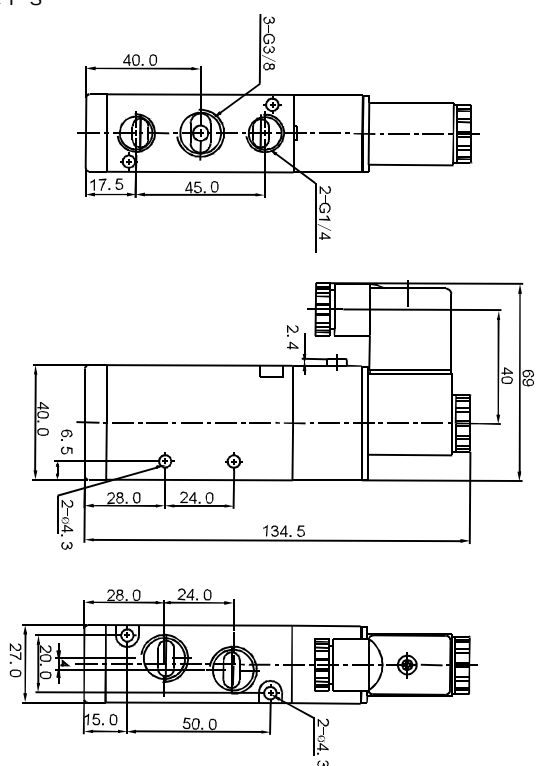
TYPE:4M310-08



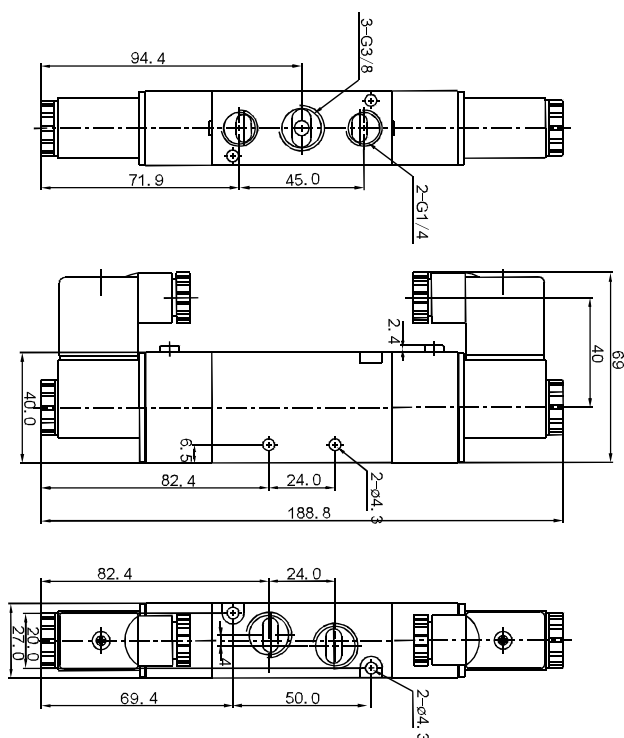
TYPE:4M320-08



TYPE:4M310-10



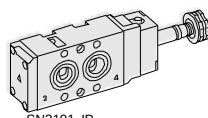
TYPE:4M320-10



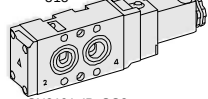
SN系列电磁阀

SN series solenoid valve

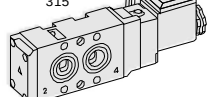
ADESUN



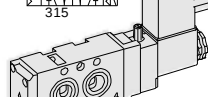
SN3101-IP



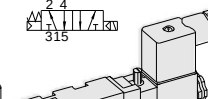
SN3101-IP-SG2-**



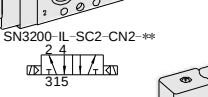
SN3101-IP-SD2-**



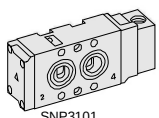
SN3101-IL-SC2-CNM2-**



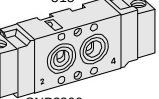
SN3200-IL-SC2-CN2-**



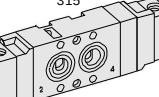
SN3303-IL-SC2-CN2-**



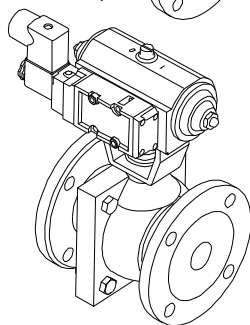
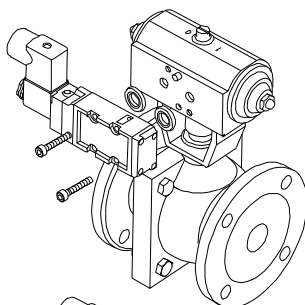
SNP3101



SNP3200



SNP3303



系列 Series	功能 Function	电磁阀、气动阀 Solenoid、Pneumatic	
		2位5通 5 Port 2 Position	3位5通 5 Port 3 Position
流体 Fluids	流体 Fluids	压缩气体和惰性气体 Compressed Air and Inert Gass	
压力 (bar) Pressure(bar)		1.5-10.0	2.0-10.0
有效截面积 Eff.Sectional Area		18mm ²	12mm ²
环境与流体温度 Ambient and Fluid Temp.		5-60°C (41-140°F)	
响应时间 Response Time		≤30ms	≤40ms
最大工作频率 Max.Working Frequency		5C/sec	3C/sec
润滑 Lubrication		无要求 (用ISO Vg32#) Not Required(Use ISO VG32#)	
手动装置 Manual Override		手动按钮 (标准), 锁定钮 (可选) Push Button(Standard),Lever Lock(Optional)	
线圈绝缘等级 Coil Insulation Class		F级或同等等级 F-Class or Equivalent	
允许电压波动范围 Permissible Voltage Variation		额定电压的±10% ±10% of Rated Voltage	
关闭时最小的电压 Off Min. Residual Voltage		AC≤20% DC≤10%	
功率消耗 Power Consumption		持续电流AC:5.5VA(60HZ)/DC:2.5W Holding-AC:5.5VA(60HZ)/DC:2.5W	

阀体: 压铸铝

密封: NBR

盖帽: 压铸铝

电枢: 不锈钢

Body: Die-Cast Aluminium

Seals: NBR

Cap: Zinc Pressure Die-Cast

Armature: Stainless Steel

阀芯: 铝

弹簧: 钢

先导部件: 玻璃尼龙

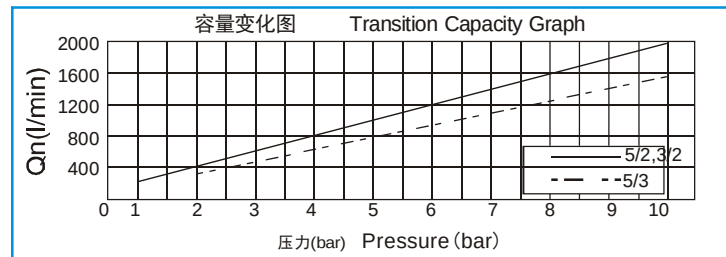
电枢密封: VITON

Spool: Aluminium

Spring: Stainless

Pilot Parts: Glass Filled Nylon

Armature Seals: Viton



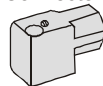
可选部件 Option Parts

金属连接器 (材质: 压铸铝)

Metal Connector (Material: ZnDC)

端口间隔环 (材质: 铝)

3 Port Blanking Ring (Material: al)



CNM2



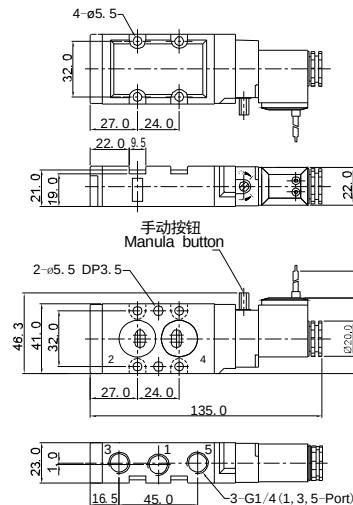
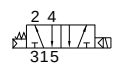
SN3000-BLK

选型表 Ordering No.

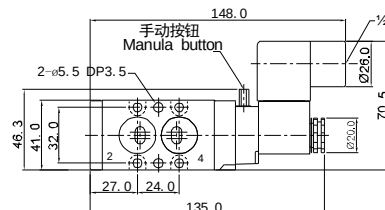
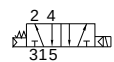
SN3	1	0	1 - I	P	SC2	CN2	A2
系列 Series SN3: 电磁阀 Solenoid Valve SNP3: 气动阀 Pneumatic Valve	复位方式 Return Method 0 无 None 1 气体+弹簧 Air+Spring 2 气体 Air 3 弹簧 Spring	线圈类型 Coil Type 0 无 None SC2 3线插座 3 Pin Connector Coil SG2 直线出线式 Grommet/Flying Leads SD2 带指示灯出线式 Grommet/Flying Leads With LED	内/外先导 Int/Ext.Pilot I 内部先导 Internal Pilot	操作方式 Manual Operator 0 无 None P 推、按、无锁 Push None-Locking L 锁阀杆 Lever Locking	电压 Voltage 0 无 None A2 AC220V A1 AC110V A4 AC24V D4 DC24V D2 DC12V	连接器类型 Connector Type 0 无 None CN2 正常连接器 Normal Connector CD2 带指示灯 Connector With LED CZ2 带指示灯和电流控制器的连接器 Connector With LED&Surge Suppressor CNM2 金属连接器 Metal connector CDM2 带指示灯金属连接器 Metal connector With LED CXM2 带指示灯和电流控制金属连接器 Metal connector With LED&Surge Suppressor	
功能 Function 1 5/2单电控 5/2 Single 2 5/2双电控 5/2 Double 3 5/3中位封闭式 5/3 Close Center 4 5/3中位排气式 5/3 Open center 5 5/3中位加压式 5/3 Pressure Center	连接规格 Port Size 0:G1/4 1:NPT1/4						

二位五通单电控 5 Port 2 Position Solenoid Valve

SN3101-IL-SD2

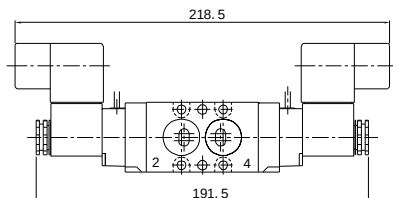
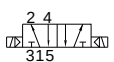


SN3101-IL-SC2-CNM2-**



双电控 Double Solenoid

SN3200-IL-SC2-CNM2-*

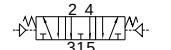


三位五通双电控 5 Port 3 Position Solenoid Valve

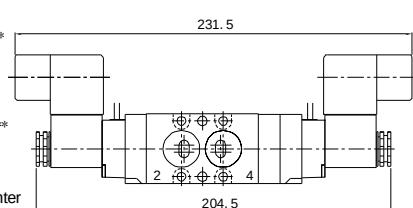
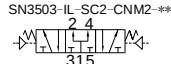
中央封闭 Close Center
SN3303-IL-SC2-CNM2-**



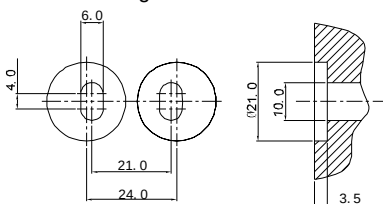
中央排气 Exhaust Center
SN3403-IL-SC2-CNM2-※



315
中央加壓 Pressure Center

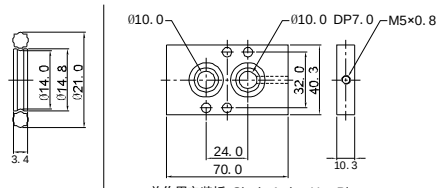


密封部分尺寸
Sealing Part Dimension



密封区 Sealing Area

端口间隔环
3 Port Blanking Part(Material:Al)

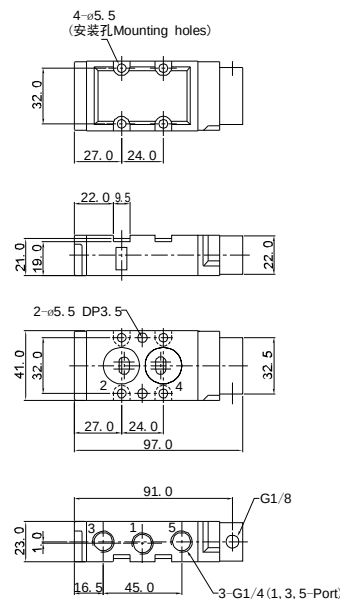
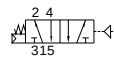


SN3000-BLK

SN3000-Plate

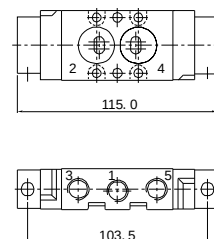
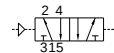
二位五通气控阀 5 Port 2 Position Pneumatic Valve

SNP4101



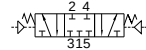
双气控 Double Pneumatic

SNP3200

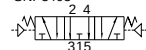


三位五通气控阀 5 Port 3 Position Pneumatic Valve

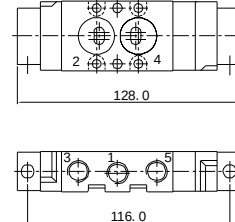
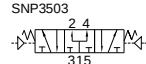
中央封闭 Close Center
SNP3303



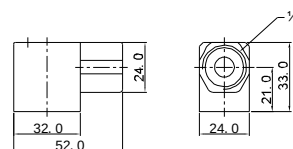
中央排气 Exhaust Center
SNP3403



中央加压 Pressur Center



金属连接器
Metal Connector (Material:ZnDc)

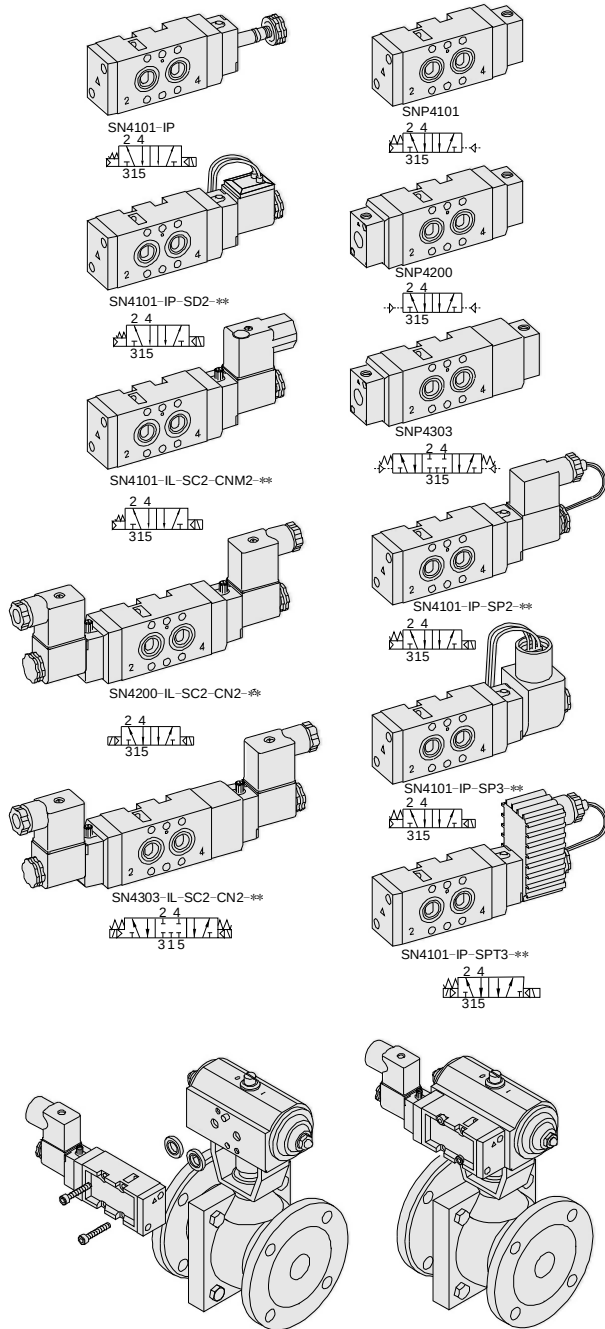


CNM2

SN系列电磁阀

SN series solenoid valve

ADESUN

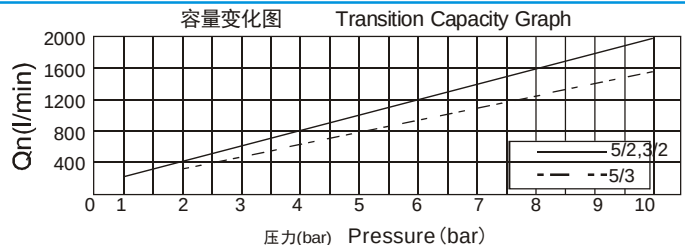


选型表 Ordering No.

SN4 系列 Series SN4: 电磁阀 Solenoid Valve SNP4: 气动阀 Pneumatic Valve		1 功能 Function 1 5/2单电控 5/2 Single 2 5/2双电控 5/2 Double 3 5/3中位封闭式 5/3 Close Center 4 5/3中位排气式 5/3 Open center 5 5/3中位加压式 5/3 Pressure Center		0 复位方式 Return Method 0 无 None 1 气体+弹簧 Air+Spring 2 气体 Air 3 弹簧 Spring		1 - I 内/外先导 Int/Ext.Pilot I 内部先导 Internal Pilot		P 线圈类型 Coil Type 0 无 None SC2 3线插座 3 Pin Connector Coil SG2 直线出线式 Grommet/Flying Leads SD2 带指示灯出线式 Grommet/Flying Leads With LED		SC2 操作方式 Manual Operator 0 无 None P 推、按、无锁 Push None-Locking L 锁阀杆 Lever Locking		CM2 连接器类型 Connector Type 0 无 None CN2 正常连接器 Normal Connector CD2 带指示灯连接器 Connector With LED CZ2 带指示灯和电流控制器的连接器 Connector With LED&Surge Suppressor CNM2 金属连接器 Metal connector CDM2 带指示灯金属连接器 Metal connector With LED CXM2 带指示灯和电流控制金属连接器 Metal connector With LED&Surge Suppressor		A2 电压 Voltage 0 无 None A2 AC220V A1 AC110V A4 AC24V D4 DC24V D2 DC12V	
---	--	--	--	---	--	--	--	--	--	---	--	--	--	--	--

系列 Series	功能 Function	电磁阀、气动阀 Solenoid、Pneumatic	
		2位5通 5 Port 2 Position	3位5通 5 Port 3 Position
流体 Fluids	流体 Fluids	压缩气体和惰性气体 Compressed Air and Inert Gass	
压力 (bar) Pressure(bar)		1.5-10.0	2.0-10.0
有效截面积 Eff.Sectional Area		18mm ²	12mm ²
环境与流体温度 Ambient and Fluid Temp.		5-60°C (41-140°F)	
响应时间 Response Time		≤30ms	≤40ms
最大工作频率 Max.Working Frequency		5C/sec	3C/sec
润滑 Lubrication		无要求 (用ISO Vg32#) Not Required(Use ISO VG32#)	
手动装置 Manual Override		手动按钮 (标准), 锁定钮 (可选) Push Button(Standard), Lever Lock(Optional)	
线圈绝缘等级 Coil Insulation Class		F级或同等等级 F-Class or Equivalent	
允许电压波动范围 Permissible Voltage Variation		额定电压的±10% ±10% of Rated Voltage	
关闭时最小的电压 Off Min. Residual Voltage		AC≤20% DC≤10%	
功率消耗 Power Consumption		持续电流AC:5.5VA(60HZ)/DC:2.5W Holding-AC:5.5VA(60HZ)/DC:2.5W	

阀体: 压铸铝 Body: Die-Cast Aluminium
 密封: NBR Seals: NBR
 盖帽: 压铸铝 Cap: Zinc Pressure Die-Cast
 电枢: 不锈钢 Armature: Stainless Steel
 阀芯: 铝 Spool: Aluminium
 弹簧: 钢 Spring: Stainless
 先导部件: 玻璃尼龙 Pilot Parts: Glass Filled Nylon
 电枢密封: VITON Armature Seals: Viton

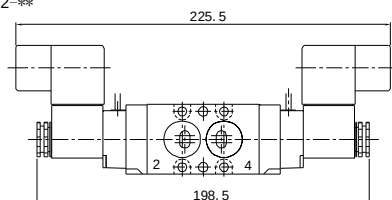
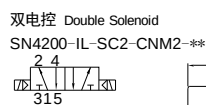
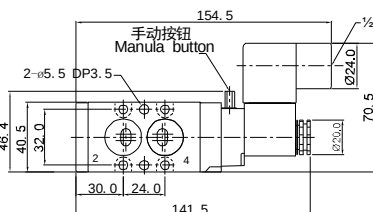
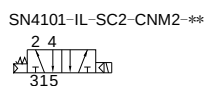
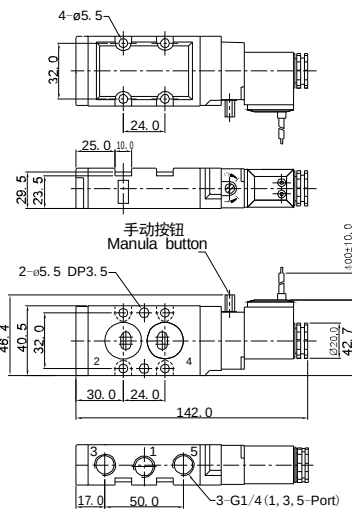
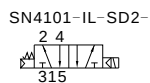


可选部件 Option Parts

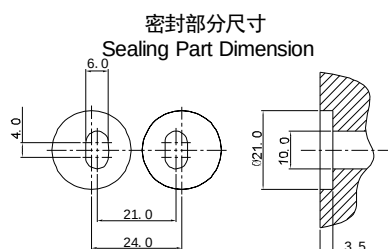
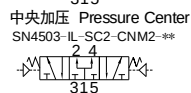
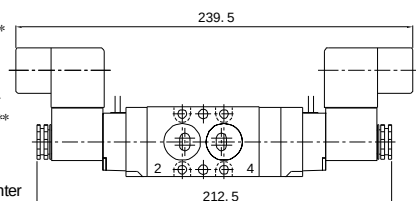
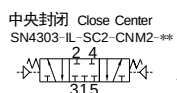
金属连接器 (材质: 压铸铝) Metal Connector (Material: ZnDC)
 端口间隔环 (材质: 铝) 3 Port Blanking Ring (Material: al)

CNM2
 SN3000-BLK

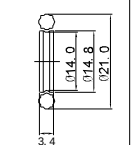
二位五通单电控 5 Port 2 Position Solenoid Valve



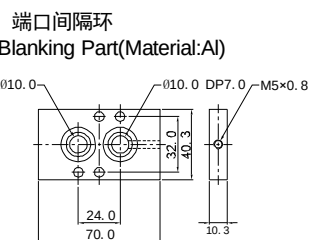
三位五通双电控 5 Port 3 Position Solenoid Valve



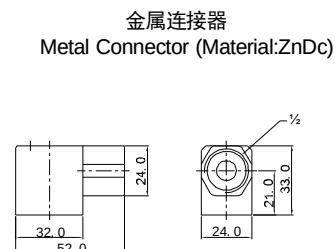
密封区 Sealing Area



SN3000-BLK

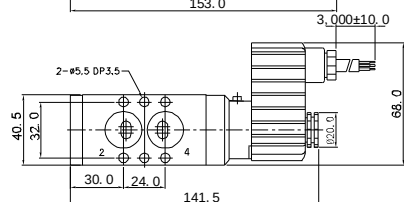
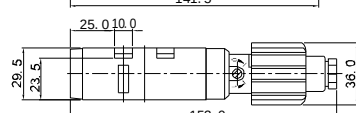
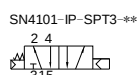
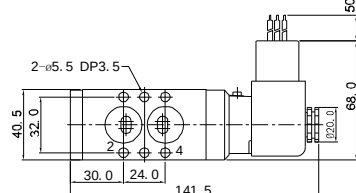
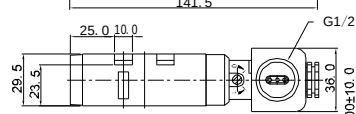
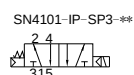
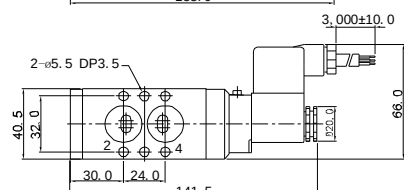
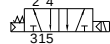
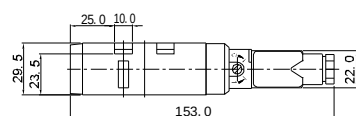
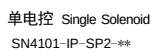
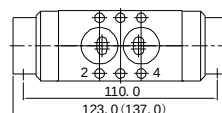
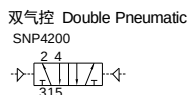
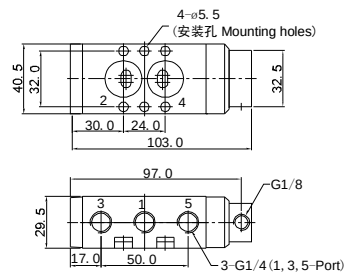
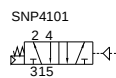


单作用安装板 Single Acting Use Plate
SN3000-Plate



CNM2

二位五通气控阀 5 Port 2 Position Pneumatic Valve



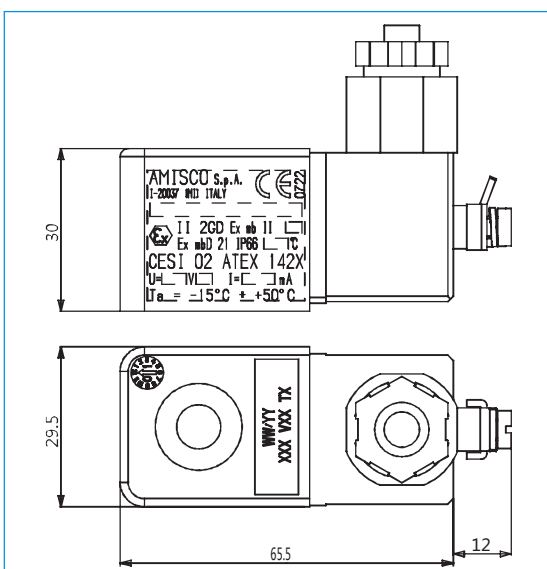


3009M Ex m

94/9/CE ATEX

该线圈可以在有潜在爆炸性可能的环境（II级）中使用，主要应用于气动方面的特殊线圈使EVI7 S9电磁阀线圈系统更加完善、它完全满足EN60079-0、EN60079-18、EN61241-0、EN61241-18的要求，属于“浇封型”保护模式。

AMISCO has completed the EVI7 S9 solenoid system with a special coil for pneumatic applications in potentially explosive ambient (group II), that fullfills the requirements of EN 60079-0, EN 60079-18, EN 61241-0, EN 61241-18, for protection mode "m"



EVI 30/9 Eexm线圈提供1.2米的连接线，根据需要可以提供其它长度的连接线（从1.5米到10米）线圈有CESI颁发的T4温度（线圈表面温度最大135°C）和T5温度级（线圈表面温度最大100°C）证明书；防爆认证为最新的ATEX 142X认证，可以确保在安全的温度下熔断器起到保护作用，使线圈的电路断开。

The type **3009M Ex m** coil is supplied with 1.2m cable connection, other lengths (from 1.5m to 10m) are available on request.

The coil is certified by CESI in thermal class T5 (with coil surface temperature max 100°C) or T4 (with coil surface temperature max 135°C).

Ec-Type Examination Certificate number: CESI 02 ATEX 142 X and extension N° 02/07. Notification number: CESI 03 ATEX 075 Q.

The protection is assured by a thermal fuse that, in case of damage, disconnects the coil from power

The product Is developed to be used in ambients with temperature range from -15°C to +50°C, and it has a power consumption of 3.8W for type T4 and 3W for type T5.

The coil Fits all Amisco standard operators 3/2 or 2/2 way NC or NO, threaded or flange types.

All main voltages Are available.

For other technical specifications See below and backwards.

产品被应用于-15°C到+50°C的环境温度，并且它有一个T4型3.8W和一个T5型3W的电消耗线圈符合所有Amisco的两位两通，两位三通；常开或常闭型螺纹与法兰连接形式先导头标准防爆证书或其它特殊要求请向Amisco咨询其它的技术参数请参阅以下：

DC solenoids

Coil Code	Vn [V]	f [Hz]	I [A]	P [W]	Temperature Class
3009MD006W3	6	-	0.510	3	T5
3009MD012W3	12	-	0.250	3	T5
3009MD024W3	24	-	0.125	3	T5
3009MD048W3	48	-	0.063	3	T5
3009MD006W4	6	-	0.640	3.8	T4
3009MD012W4	12	-	0.320	3.8	T4
3009MD024W4	24	-	0.160	3.8	T4
3009MD048W4	48	-	0.080	3.8	T4

AC solenoids

Coil Code	Vn [V]	f [Hz]	I [A]	P [VA]	Temperature Class
3009MA012W2	12	50/60	0.2700	3.2	T5
3009MA024W2	24	50/60	0.1330	3.2	T5
3009MA048W2	48	50/60	0.0670	3.2	T5
3009MA100W2	100	50/60	0.0320	3.2	T5
3009MA110W2	110	50/60	0.0290	3.2	T5
3009MA115W2	115	50/60	0.0280	3.2	T5
3009MA120W2	120	50/60	0.0270	3.2	T5
3009MA220W2	220	50/60	0.0146	3.2	T5
3009MA230W2	230	50/60	0.0140	3.2	T5
3009MA240W2	240	50/60	0.0134	3.2	T5



Avvolgimenti elettrici

SOLENOID SYSTEMS Ex m

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

2/2, 3/2常开或常闭型阀

Characteristics (特点)

			DC		AC 50 Hz	AC 60 Hz
	3009 M...W.	Rated power DC (标称功率 直流) W	3			
		Inrush power AC (标称功率 交流) VA			4.8	4
		Rated power AC (标称功率 交流) VA			3.2	2.7
		Coil temperature rise (线圈升温) °C	35		15	10
		Copper temperature rise (铜线升温) °C	40		30	25
	3009M...W.	Rated power DC (标称功率 直流) W		3.8		
		Inrush power AC (标称功率 交流) VA				
		Rated power AC (标称功率 交流) VA				
		Coil temperature rise (线圈升温) °C		50		
		Copper temperature rise (铜线升温) °C		55		
	3/2 way NC	Inlet orifice Ø (入口通径) mm	1.3	1.5	1.5	1.5
		Exhaust orifice Ø (排气口通径) mm	1.4	1.4	1.4	1.4
		Working pressure (工作压力) bar	0-10	0-10	0-10	0-10
	2/2 way NC	Inlet orifice Ø (入口通径) mm	1.3	1.5	1.5	1.5
		Working pressure (工作压力) bar	0-10	0-10	0-10	0-10
	3/2 way NO	Inlet orifice Ø (入口通径) mm	1.4	1.4	1.4	1.4
		Working pressure (工作压力) bar	0-7	0-10	0-10	0-10

Notes(注意) :

Temperature range(环境温度) : -15°C ~ +50°C

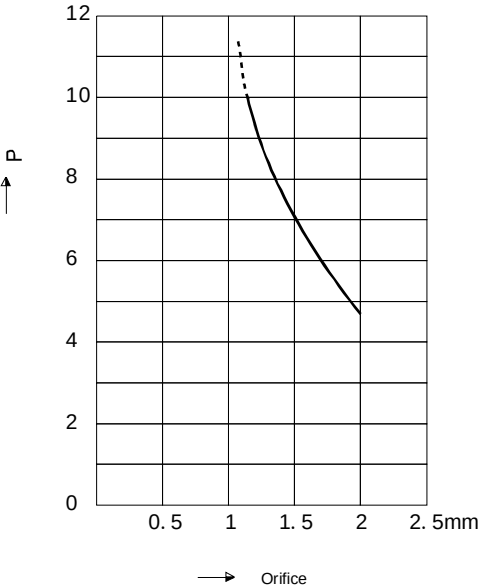
Standard voltages(标称电压) : 12 to 240 VAC - 50/60 Hz 6 to 48 VDC

Duty cycle(工作时间) :100%

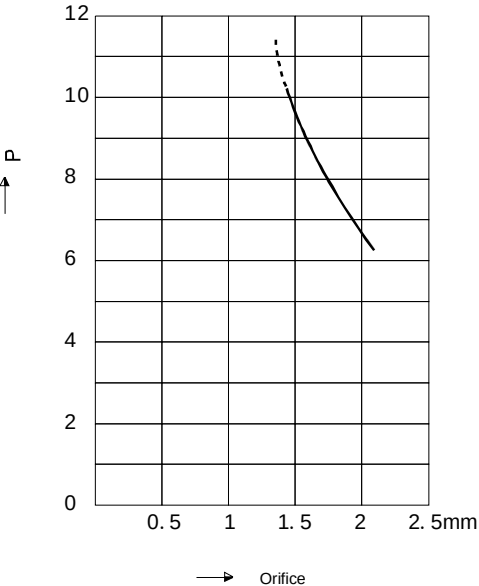
Voltage tolerance(电压范围) : ±10%

PERFORMANCES(性能)

3 W Coil-DC
bar



3,2 VA Coil-AC
3,8 W Coil-DC
bar



About -mentioned characteristics have to be intended only as indicative.They may change according to the tube design solutions.
(以上线圈特点, 仅供参考, 具体要根据导磁管的设计。)



3009M Ex dm
94/9/CE ATEX

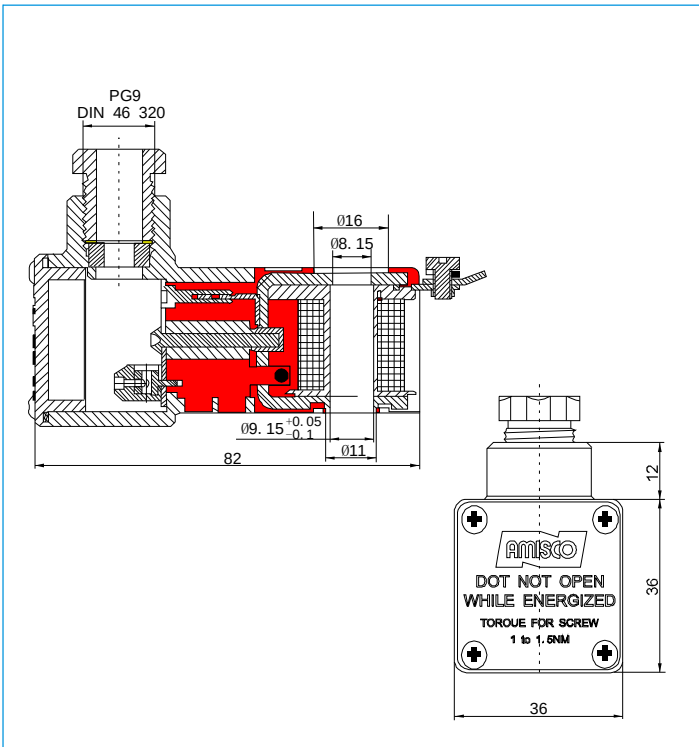
该线圈可以在有潜在爆炸性可能的环境（II级）中使用，主要应用于气动方面的特殊线圈使EVI7 S9电磁阀线圈系统更加完善、它完全满足EN60079-0、EN60079-1、EN60079-18、EN60079-31的要求。

Amisco has completed the EVI7 S9 Solenoid System with a special coil for pneumatic applications in potentially explosive ambient (group II), that fulfills the requirements of EN60079-0, EN60079-1, EN60079-18 and EN60079-31.



The coil is certified by TÜV in thermal class T5 (with coil surface temperature max 100°C) or T4 (with coil surface temperature max 135°C).
Ec-Type Examination Certificate number: TÜV 13 ATEX XXX.
The protection is assured by a thermal fuse that, in case of damage, disconnects the coil from power.
The product is developed to be used in ambients with temperature range from -15°C to +50°C, and it has a power consumption of 3.8W for type T4 and 3W for type T5.
The coil fits all Amisco standard operators 3/2 or 2/2 way NC or NO, threaded or flange types.
All main voltages are available.
For other technical specifications see below and next page. Please contact Amisco S.p.A for use with other media.
All given information are subjected to changes without notice.

线圈有TÜV T5温度级(线圈表面温度最大100°C)和T4温度级(线圈表面温度最大135°C)证明书。证书编号：TÜV 13 ATEX XXX。
可以确保在安全的温度下熔断器起到保护作用，使线圈的电路断开。
产品被应用于-15°C到+50°C的环境温度，并且它有一个T4型3.8W和一个T5型3W的电能消耗线圈符合所有Amisco的两位两通，两位三通、螺纹与法兰连接类型的。
其他技术规范见下页。
使用说明请联系Amisco及其它媒介。
所有给定的信息接受更改，恕不另行通知。



	防爆公用标志 Specific marking of explosion protection.
II	II区：具有潜在爆炸性气体环境的电气设备，除了对火花敏感的矿井。 Group II – Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to fire dump.
2	类别2-请参阅下面。 Category 2 – see the board below.
G	爆炸性气体环境。 Explosive gas atmospheres.
D	可燃性粉尘爆炸环境 Explosive atmosphere in the presence of combustible dust.
Ex	Ex符号表明电气设备符合EN 60079-0 防护等级。 The symbol Ex which indicates that the electrical apparatus corresponds to one of the protection type (EN 60079-0).
d	气体防护型式-外壳“d” Type of protection for gas – enclosure “d”.
Mb	气体防护型式-浇封“m”，“mb” 保护级别 Type of protection for gas – encapsulation “m”, level “mb”.
Tb	爆炸性粉尘防护型式-防护外壳 Type of protection for explosive dust atmospheres – protection by enclosure.
IIC	电气设备II区是依据爆炸性气体的性质细分-IIC，典型的气体是氢气。 Electrical equipment of Group II is subdivided according to the nature of the explosive gas atmospheres – IIC, a typical gas is hydrogen.
IIIC	电气设备III区是依照爆炸性粉尘环境的性质细分-IIIC，导电性粉尘。 Electrical equipment of Group III is subdivided according to the nature of the explosive dust atmospheres – IIIC, conductive dust.
T5 or T4	温度等级T5或T4 Temperature Class. T5 or T4.
Gb	爆炸性气体环境设备防护级别 (EPL) Equipment protection level [EPL] for explosive gas atmospheres.
Db	爆炸性粉尘环境设备防护级别 (EPL) Equipment protection level [EPL] for explosive dust atmospheres.
IP66	外壳的防尘、防水的防护等级 The degrees of protection provided by an enclosure against ingress of solid foreign objects, dust (first number) and water (second number).

类别	Category	类型	Description
	2G		此类别中的设备用于在空气/气体混合物可能引起爆炸性环境发生的区域中。 Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/gas mixtures are likely to occur.
	2D		此类别中的设备用于在空气/灰尘混合物可能引起的爆炸性环境发生的区域中。 Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/dust mixtures are likely to occur.



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

2/2, 3/2常开或常闭型阀

Coil 3009 DM	Code	Characteristics (特点)	DC		AC 50 Hz
II2G Ex dmb IIC T5 GB II2D Ex tb IIIC T5 Db	30 XDM...	Rated power DC (标称功率 直流) W	3		
		Inrush power AC (标称功率 交流) VA			4.8
		Rated power AC (标称功率 交流) VA			3.2
		Coil temperature rise (线圈升温) °C	35		15
		Copper temperature rise (铜线升温) °C	40		30
II2G Ex dmb IIC T4 GB II2D Ex tb IIIC T4Db	30 XDM...	Rated power DC (标称功率 直流) W		3.8	
		Inrush power AC (标称功率 交流) VA			
		Rated power AC (标称功率 交流) VA			
		Coil temperature rise (线圈升温) °C		50	
		Copper temperature rise (铜线升温) °C		55	
3/2 way NC	09 L...	Inlet orifice Ø (入口通径) mm	1.3	1.5	1.5
	09 F...	Exhaust orifice Ø (排气口通径) mm	1.4	1.4	1.4
		Working pressure (工作压力) bar	0-10	0-10	0-10
2/2 way NC	09 L...	Inlet orifice Ø (入口通径) mm	1.3	1.5	1.5
	09 F...	Working pressure (工作压力) bar	0-10	0-10	0-10
3/2 way NO	09 L...	Inlet orifice Ø (入口通径) mm	1.4	1.4	1.4
	09 F...	Working pressure (工作压力) bar	0-7	0-10	0-10

Notes(注意) :

Temperature range(环境温度) : -15°C~ +50°C

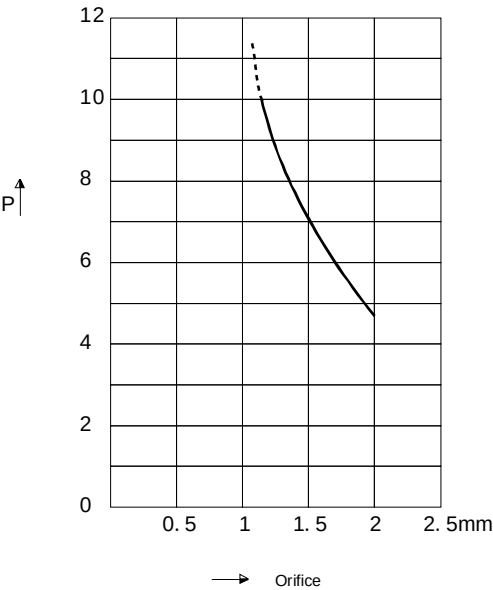
Standard voltages(标称电压) : 12 to 240 VAC - 50/60 Hz 6 to 48 VDC

Duty cycle(工作时间) :100%

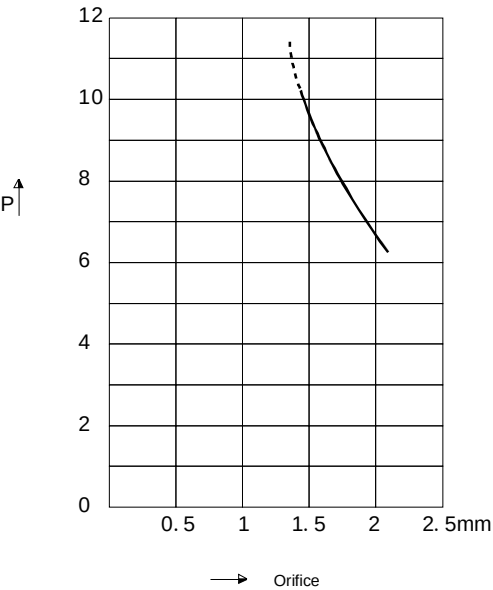
Voltage tolerance(电压范围) : ±10%

PERFORMANCES(性能)

3 W Coil-DC
bar



3,2 VA Coil-AC
3,8 W Coil-DC
bar



About -mentioned characteristics have to be intended only as indicative.They may change according to the tube design solutions.
(以上线圈特点, 仅供参考, 具体要根据导磁管的设计。)



EVI线圈 S9先导阀



The coil is available in different sizes and 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 (thermoset material on demand for 22 mm coil).

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, we suggest the sealed or thermoset version; at any case, please, take contact with Amisco.

- 高耐热PBT骨架
- H级漆包线
- 低碳钢导磁金属骨架
- 特殊尼龙及填充玻璃纤维封装
- 所有线圈符合F级耐热及IP65保护等级（带接线盒）
- 线圈符合CE标准
- 可提供引线，DIN43650, AMP三种电气接头。

Electrical terminations 电气端子	Code 型号	Characteristics (参数)						
			DC		AC 50Hz		AC 60Hz	
 Terminals AMP 6.3x0.8 width 11 mm (端子 AMP 6.3x0.8) Terminals DIN 43650 B (端子 DIN 43650 B) Flying leads (引线)	0709S...	Rated power DC (标称功率 直流)	W	3	6.5			
	0709D...	Inrush power AC (标称功率 交流)	VA			7.5	12.5	6.5
	0709C...	Rated power AC (标称功率 交流)	VA			5	8.5	4.2
		Coil temperature rise (线圈升温)	°C					
		Copper temperature rise (铜线升温)	°C					

Notes (注意) :

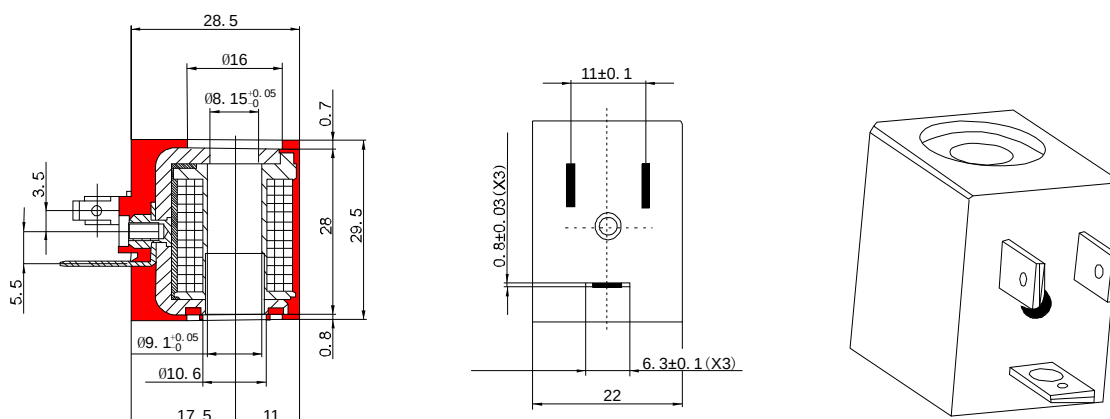
Temperature range (环境温度) : -15°C ÷ +50°C

Standard voltages (标称电压) : 12 to 240 VAC - 50/60 Hz 6 to 48 VDC

Duty cycle(工作时间):100%

Voltage tolerance(电压范围) : $\pm 10\%$

For different orifice sizes and pressures contact AMISCO



AMISCO接线盒

AMISCO Connector System

Connector System

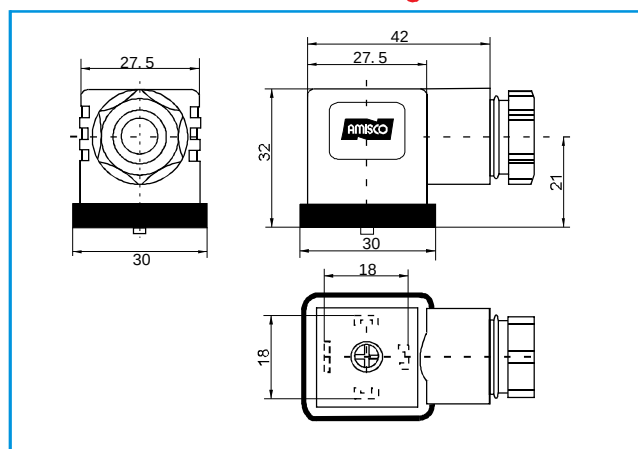
接线盒系列

ADESUN

AMISCO
Avvolgimenti elettrici



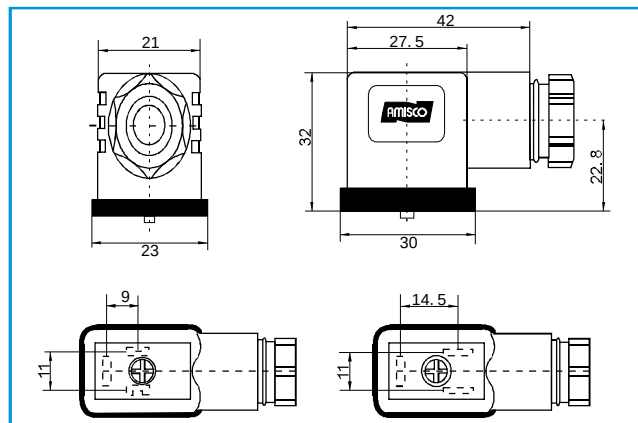
DIN43650A
For 30mm coil types
(EVI30, EVI5, EVI3)
Protection Class: IP65. IEC60529



DIN43650 A型接线盒
用于30mm线圈
(EVI30, EVI5, EVI3)
保护等级: IP65. IEC60529



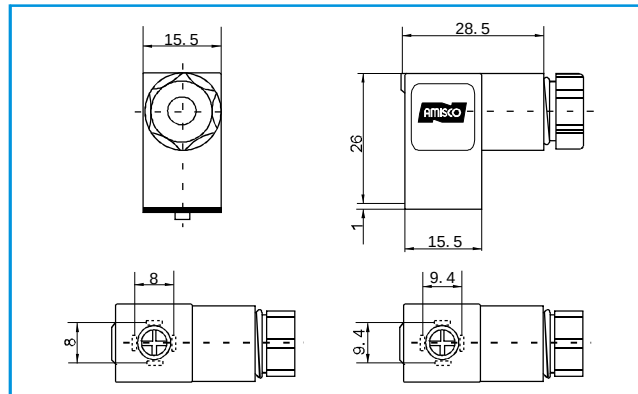
DIN43650B/INDUSTRIAL
For 22mm coil types
(EVI7/9, EVI7/8, EVI710)
Protection Class: IP65. IEC60529



DIN43650 B型接线盒
用于22mm线圈
(EVI7/9, EVI7/8, EVI710)
保护等级: IP65. IEC60529



DIN43650B/INDUSTRIAL
For 15mm and 17mm coil types
(EVI9, 15mm pilot valve)
Protection Class: IP65. IEC60529



DIN43650 C型接线盒
用于15mm和17mm线圈
(EVI9, 15mm先导阀)
保护等级: IP65. IEC60529

电磁阀及线圈价格表

price list solenoid valve and coil



4M系列电磁阀
4M series solenoid valve



型号	4M310-08B-220VAC	4M310-08B-24VDC	4M310-08-220VAC	4M310-08-24VDC	4M310-08B-A2-EX	4M310-08B-D4-EX	4M310-08-A2-EX	4M310-08-D4-EX
¥	150	150	150	150	450	450	450	450

SN系列电磁阀
SN series solenoid valve



型号	SN3101-IP-220VAC	SN3101-IP-24VDC	SN4101-IP-220VAC	SN4101-IP-24VDC	SN3101-IP-A2-EX	SN3101-IP-D4-EX	SN4101-IP-A2-EX	SN4101-IP-D4-EX
¥	300	300	320	320	600	600	620	620

AMISCO线圈
AMISCO coil



型号	3009MA110W203-110VAC	3009MA220W203-220VAC	3009MD024W303-24VDC	EVI-7/9-110VAC	EVI-7/9-220VAC	EVI-7/9-24VDC
¥	350	350	350	50	50	50

XLHJ手轮操作机构

Hand-wheel Gear Box - XLHJ Series Gear Operator



主要特点:

- 1、设计简单，结构紧凑，重量轻。
- 2、铸铁，铝合金箱体，坚固耐用。
- 3、采用ISO5211连接标准，直接安装无需支架。
- 4、自动手动转换方便。
- 5、采用90°双键槽轴孔，便于多相位阀门安装。
- 6、气候防护等级达到IP65。

Main characteristics:

- 1、simple design,compact structure
- 2、ductile cast iron shell,durable
- 3、connectors with ISO5211 international standards,and instal directly without bracket.
- 4、convenient for automatic and manual conversion
- 5、Easy connection: There are two keyway apart 90° the inner hole of worm gear so as to be convenient for customer to choose relative position between gear operator and valve.
- 6、climate protection garde reach Ip65

主要用途

本减速器与气动装置联合使用，用于开启90°的蝶阀、球阀等，实现手动或气动驱动。

Main usage

These kinds of products were specially designed used for butterfly valve, ball valve and plug valve together with pneumatic actuator.

操作说明

- 1、减速器底面与阀门连接，上支架面与气缸连接，阀轴配合穿过蜗轮内孔，阀轴端四方与气缸方孔配合；(工作过程：气动时，气缸带动阀轴、蜗轮同转。手动时，蜗杆与蜗轮啮合，带动阀轴转动，气缸活塞亦随动)。
- 2、手柄位于上方位置，手动操作，不能气动。拉出限位销，顺时针转动手柄至下方位置。蜗轮、蜗杆脱开，实现气动。
- 3、手柄位于下方位置时，气动操作，无法手动。拉出限位销，逆时针转动手柄至上方位置。蜗轮、蜗杆啮合，实现手动。气动切换手动过程中会出现顶齿现象，需转动手轮一个角度，确保蜗轮与蜗杆正确啮合，才能手动。
- 4、气动与手动不能同时驱动。

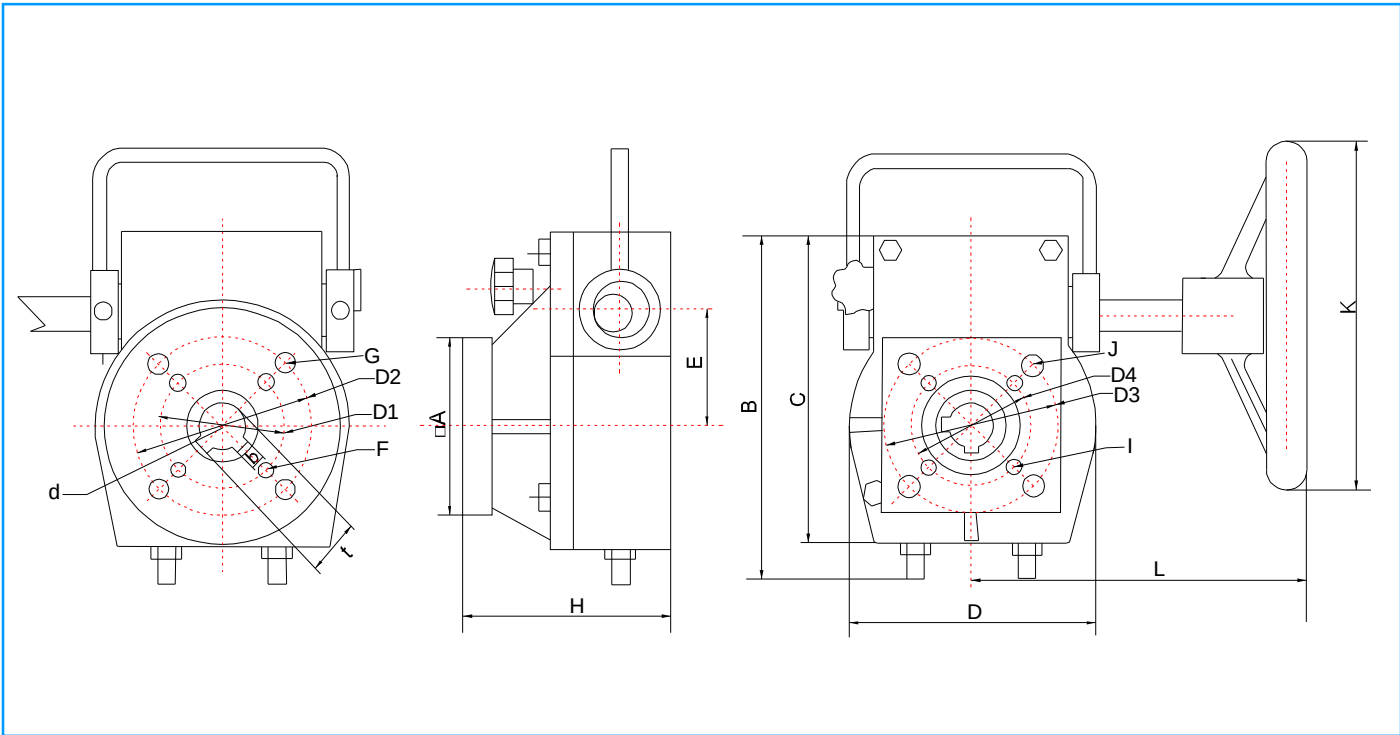
Instructions for use

- 1、 reducer and the bottom surface of the valve is connected, on the support surface is connected with the cylinder, valve shaft through a worm hole, the valve shaft end square matched with the cylinder hole; (process: pneumatic cylinder to drive the valve shaft, With the transfer gear. Manual, engaged with the worm wheel, driven by the rotation of the valve shaft, cylinder piston also follow-up).
- 2、 the handle is located above the position, manual operation, not pneumatic. Pull out the limit pin, rotate the handle clockwise to the lower position. The worm, worm disengage, pneumatic.
- 3、 handle at the lower position, pneumatic operation, no manual. Pull out the limit pin, counterclockwise rotation of the handle to the top position. The worm, worm gear, manual. Pneumatic switch manual process
Top teeth phenomenon, a rotation handwheel, ensure that the worm wheel and the worm gear mesh correctly, you can manually.
- 4、 pneumatic drive and manual cannot.

XLHJ系列手轮机构技术参数 XLHJ Series Gear Operator of Technical parameters

序号 No	型号 Model	齿轮齿数比 Gear Ratio	输入力矩 Input Torque(Nm)	输出力矩 Output Torque(Nm)	重量 Weight(Kg)
1	XLHJ26	26:01:00	70	300	7.3
2	XLHJ38	38:01:00	60	550	11.8
3	XLHJ54	54:01:00	120	1200	17.3
4	XLHJ80	80:01:00	140	2000	35
5	XLHJ78A	78:01:00	200	3600	48.2
6	XLHJ98	98:01:00	300	9000	156
7	XLHJ100	100:01:00	400	13000	190
8	XLHJ118	118:01:00	900	22100	540

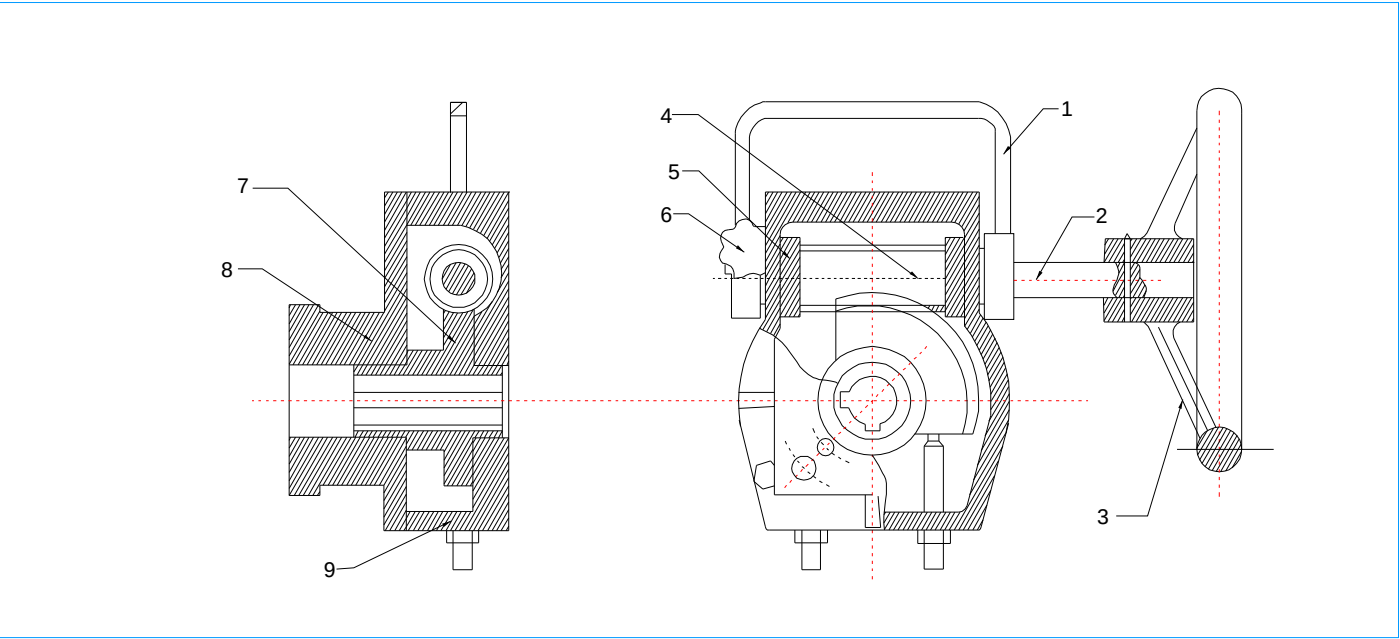
XLHJ系列手轮机构连接尺寸表 XLHJ Series Gear Operator Size



Model	d	b	t	D1	F	D2	G	A	H	E	D3	I	D4	J	K	L	B	C	D
XLHJ26:1	22	6	24.8			70	M8	70	99	50.5			70	ø9	ø200	155	160	145	110
XLHJ38:1	26	8	29.3	70	M8			100	117	65	70	ø9			ø200	195	195	175	140
	38	10	41.3			102	M10	110					102	ø12					
XLHJ54:1	38	10	41.3	125	M12			130	118	85	125	ø14			ø300	205	235	215	180
	48	14	51.8			140	M16						140	ø18					
XLHJ80:1	48	14	51.8	140	M16			156	148	124	140	ø18			ø400	245	320	298	250
	60	18	64.4			165	M20						165	ø22					
XLHJ78:1	60	18	64.4	165	M20			220	150	142	165	ø22							
	80	22	85.6												ø600	265	360	340	285
XLHJ98:1	80	22	85.6	165	M20			230	195	229	165	ø22			ø800	410	550	530	460
XLHJ100:1	100	28	107	254	M16			300	195	258	254	ø18			ø800	430	605	585	520
XLHJ118:1	120	32	129	356	M30			ø445	250	391	356	ø32			ø1000	550	900	870	800
	180	45	196	483	M36			ø600	275	390	483	ø39			ø600	600	1050	900	850

XLHJ手轮操作机构

Hand-wheel Gear Box - XLHJ Series Gear Operator



NO	部件 Part	数量 Qty	材质 Material	Optional material
1	手柄 Handle	1	Carbon steel	
2	涡轮杆 Worm shaft	1	45 GB699-88	
3	手轮 Hand wheel	1	HT200 GB 9439-88	WCB GB12229-88
4	蜗杆 Worm	1	45 GB699-88	
5	偏心套组件 Off-center sleeve sub-assembly	1	Carbon steel	
6	限位螺杆 positioning screw	1	Carbon steel	
7	涡轮 Worm gear	1	QT500-7 GB1348-88	
8	支架盖 Bracket cap	1	HT200 GB 9439-88	WCB GB12229-88
9	壳体 Body	1	HT200 GB 9439-88	WCB GB12229-88

齿轮齿数比 Gear Ratio	输入力矩 Input Torque(Nm)	输出力矩 Output Torque(Nm)	重量 Weight(Kg)	¥
26:01:00	70	300	7.3	520
38:01:00	60	550	11.8	740
54:01:00	120	1200	17.3	920
80:01:00	140	2000	35	1170
78:01:00	200	3600	48.2	1840
98:01:00	300	9000	156	2520
100:01:00	400	13000	190	4760
118:01:00	900	22100	540	4760

蝶阀可选材料/Optional material for butterfly valve

主要零部件 Main components	材质 Material	适用规格 Applicable size	主要零部件 Main components	材质 Material	适用规格 Applicable size
阀体 Body	球墨铸铁 Ductile iron	50mm-1200mm	阀杆 Stem	不锈钢 416/316/304 Stainless steel 416/316/304	25mm-1200mm
	灰铸铁 Cast iron	50mm-1000mm			
	铝合金 Aluminum alloy	25mm-300mm		碳钢电镀 Carbon steel electroplate	
	铸钢 Cast stell	50mm-600mm			
	不锈钢 Stainless steel	25mm-600mm			
阀板 Disc	不锈钢 304/316 Stainless steel 304/316	25mm-1200mm	阀座 Seat	丁晴橡胶 NBR	50mm-500mm
	球墨铸铁镀镍磷 Ductile iron nicr phosphorus coated	50mm-1200mm		乙丙橡胶 EPDM	
				氟橡胶 VITON	
				硅橡胶 SEP	
	球墨铸铁覆尼龙 Ductile iron nylon coated			耐磨 EPDM Wear resistant EPDM	
	双相钢 Dual phase steel	聚四氟乙烯 PTFE			
	铝青铜 Aluminum bronze			50mm-600mm	

密封副适用介质，温度推荐表
Seal pair applicable medium and temperature recommended list

密封副材质 Seal pair material		适用温度 Applicable temperature	介质类型及适用程度 Mediums type and applicable degree													突出特性 Outstanding characteristic
			1	2	3	4	5	6	7	8	9	10	11	12	13	
阀座 Seat	丁晴 NBR	-12℃～+82℃	A	A	A	B	A	D	B	A	C	A	D	A	B	耐油 ① Oil resistance ①
	三元乙丙 EPDM	-35℃～+135℃	A	A	A	A	A	C	A	B	B	A	A	C	A	耐老化 ② Resistance to aging ②
	耐腐蚀三元乙丙 Corrosion resisting EPDM	-35℃～+160℃	A	A	A	A	A	A	A	B	B	A	A	C	A	耐腐蚀 ③、耐老化 ② Abrasion resistant ③ Resistance to aging②
	氟橡胶 FPM	-23℃～+135℃	A	A	A	C	A	C	A	A	C	A	A	A	A	耐高温④、耐腐蚀③ High temperature resistant④ Abrasion resistant ③
	聚四氟乙烯 PTFE	-10℃～+150℃	A	A	A	A	A	A	A	A	A	A	A	A	A	耐腐蚀③、耐高温 ④ Abrasion resistant ③ Temperature resistant ④
阀板 Disc	球铁电镀 Plated ductileiron	-30℃～+350℃	B	D	C	D	C	D	C	B	A	B	A	A	C	耐热 ⑤ Heat resistant ⑤
	球铁尼龙覆层 Ductile iron nylon coating	-30℃～+100℃	A	A	A	A	A	D	A	A	C	A	D	A	A	耐腐蚀③、耐磨 ⑥ Abrasion resistant ③ Wear-resisting ⑥
	铝青铜 Aluminum bronze	-273℃～+232℃	A	B	C	D	C	D	B	A	A	A	A	A	C	耐热 ⑤、耐腐蚀 ③ Heat resistant ⑤ Abrasion resistant ③
	不锈钢 Stainless steel	-268℃～+316℃	A	B	C	C	B	C	A	A	A	A	A	A	A	耐高温④、耐腐蚀 ③ Temperature resistant ④ Abrasion resistant ③

A-非常适用Very Suit B-适用Suitable C-有限适用Limted suit D-不适用Not Suit

1. 淡水Fresh Water 2. 海水Sea Water 3. 盐类Salt 4. 强碱Strong Alkali 5. 弱碱Thin Alkali 6. 强酸Strong Acid 7. 弱酸Thin Acid
8. 天然气Natural Gas 9. 醇类Alcoholic 10. 空气Air 11. 蒸汽Stem 12. 油类Oil 13. 食品Food

耐油Oil resistant 耐老化Age resistant 耐腐蚀Corrosion resistant 耐高温High temperature resistant 耐热Heat resistance
耐磨Wear resistant 减摩Anti-friction

蝶阀Cv值和计算方法

Cv(C)Value of Wafer Butterfly Valve

对夹式蝶阀Cv(C)值

Cv值定义 Definition of Cv Value

当阀门全开时, 阀两端压差为1磅/英寸², 流体用60° F 的清水时, 通过阀门的美加仑/分的流量数。

The value Cv is the flow rate (in US gal/min) of pure water at 60°F passing through the valve when the valve disc is fully opened and the pressure differential between the two ends of the valve is 1Lbf / in²

$$Cv = \frac{V}{\sqrt{\frac{G}{P_1 - P_2}}}$$

V:最大流量 (美加仑/分)

G:比重 (水=1)

P1:流入侧压力(磅/英寸²)

P2:流出侧压力(磅/英寸²)

Cv=1.17C

V:Max. flow (in US gal/min)

G:Specific gravity (1 for water)

P1:Inlet side pressure (Lbf/in²)

P2:Outlet side pressure (Lbf/in²)

Cv=1.17C

C值定义 Difinition of C Value

水流经阀门的两端压差为100kPa时, 某给定行程所流过以m³/h计, 介质密度取kg/m³的流量。

The value C, is the flow rate (m³/h) of pure water at normal temperature passing through the valve when the valve disc is fully opened and the pressure differential between the two ends of the valve is (kg/m³) 100kPa

$$C = \frac{Q}{\sqrt{\frac{P}{\Delta P}}}$$

Q:最大流量 (米³/小时)

P:介质密度 公斤/米³ (取P=1)

△P:阀门压损失, 100kPa.

(公斤/厘米²)

Q:Max. fiow (m³/h)

P:Medium density

(kg/m³)

△P:Pressure loss in valve 100kPa

(kg/cm³)

流阻系数与Cv值得换算关系

Conversion of flow resistance coefficient and Cv value

$$Cv = 29.9 \frac{d}{\sqrt{\zeta}}$$

d: 阀门内径或阀座口径in (英寸)

ζ:流阻系数 (无量纲)

d: Valve bore size or valve seat bore size (in)

ζ:Flow resistance coefficient(no unit)

规格 Size	阀门开启角度流量CV值 Flow in Gpm@ 1PSI P @Various Disc Angles									90° 开启时 Cv值 Full 90 ° Open
(mm)	(inch)	10 °	20 °	30 °	40 °	50 °	60 °	70 °	80 °	
50	2"	0.1	5	12	24	45	64	90	125	135
65	2.5"	0.2	8	20	37	65	98	144	204	220
80	3"	0.3	12	22	39	70	116	183	275	302
100	4"	0.5	17	36	78	139	230	364	546	600
125	5"	0.8	29	61	133	237	392	620	930	1022
150	6"	2	45	95	205	366	605	958	1437	1579
200	8"	3	89	188	408	727	1202	1903	2854	3136
250	10"	4	151	320	694	1237	2047	3240	4859	5340
300	12"	5	234	495	1072	1911	3162	5005	7507	8250
350	14"	6	338	715	1549	2761	4568	7230	10844	11917
400	16"	8	464	983	2130	3797	6282	9942	14913	16388
450	18"	11	615	1302	2822	5028	8320	13168	19752	21705
500	20"	14	791	1647	3628	6465	10698	16931	25396	27908
600	24"	22	1222	2587	5605	9989	16528	26157	39236	43116
700	28"	36	1813	3639	6636	10000	14949	22769	34898	46500
800	32"	45	2387	4791	8736	13788	20613	31395	48117	68250
900	36"	60	3021	6063	11055	17449	26086	39731	60895	86375
1000	40"	84	1483	8395	15307	24159	36166	55084	84425	119750

(美制及英制单位换算成SI单位)

长度单位

1 in = 25.4 mm
1 ft = 0.3048 m
1 micron = 10^{-3} mm

面积单位

1 in² = 6.45 cm²
1 ft² = 0.093 m²

体积单位

1 litre = 0.001 m³
1 cu.ft. = 0.0283 m³
1 cu.in. = 16.39 m³
1 fluid oz. (imp) = 28.41 mL
1 fluid oz. (us) = 29.57 mL
1 gal (imp) = 4.546 L
1 gal (us) = 3.79 L

温度单位

(°F-32) × 5/9 = °C
K-273.15 = °C

功及能量单位

1 Nm = 1 J
1 kgm = 9.807 J
1 kW/hr = 3.6 MJ
1 lbft = 1.356 J

质量单位

1 lb = 453.6 g
1 tonne = 1000 kg
1 ton (imp) = 1016 kg
1 ton (us) = 907.2 kg

力矩单位

1 kgm = 9.807 Nm
1 ftpoundal = 0.0421 Nm
1 in lb = 0.113 Nm
1 ftlb = 1.356 Nm

压力单位

1 psi = 6.89 kPa
1 kgf / cm² = 98.07 kPa
1 bar = 100 kPa
1 bar = 14.5 psi
1 mm mercury = 133.3 Pa
1 in mercury = 3.39 kPa
1 Torr = 133.3 Pa
1 ft water = 0.0298 bar
1 bar = 33.33 ft water
1 atmosphere = 101.3 kPa
1 cmwater = 97.89 Pa
1 in water = 248.64 Pa

功率单位 (功/时间)

1 Nm/sec = 1 W
1 lbft/sec = 1.356 W
1 kgm/sec = 9.807 W
1 joule/sec = 1 W
1 H.P. (imp) = 745.7 W

力单位

1 kgf = 9.81 N
1 lbf = 4.45 N
1 kp (kilopound) = 9.81 N
1 poundal = 138.3 Mn
1 ton force = 9.964 kM

流量

Cv值 = 水流量 (US gal/min) 於60°F下, 流经差压为1psi 之阀门而所得出之流量定值。
Kv值 = 水流量 (L/min) 於20°C下, 流经差压为1kgf/cm² 之阀门而所得出之流量定值。
So = 有效截面积 (mm²)
Q = 流量 (N /min)
S.T.P. = 标准温度及压力 (0°C及101.3KPa绝对压力)
N.T.P. = 正常温度及压力 (20°C及101.3KPa绝对压力)
M.S.C. = 公制标准情况 (15°C及101.3KPa绝对压力)
AMR = 温度 : 20°C及相对湿度 : 65%

流量计算公式

Q = Cv 值 × 984
= Kv 值 × 1100
Cv = So ÷ 18

换算表

1 psi = 6.895 kPa = 0.07 kg/cm² = 0.06895 bar = 0.0703 atm
1 standard atmosphere = 14.7 psi = 101.3kPa = 101325 bar
1 kg/cm² = 98.07 kPa = 14.22 psi = 28.96 ins mercury
1 m³ = 106 cm³
1 cu f t / min = 28.3 l / min
1 Pa = 1 N/m²
1 ft lb = 0.13826 kgm = 1.356 Nm
1 L = 1000 cm³ = 1.7598 pint = 106 mm³
1 tonne = 1000 kg = 0.984 ton = 2204.6 lb