



常州曼淇威压力控制技术有限公司

Changzhou Match-Well Pressure Control Technology Co., Ltd.



企业简介



常州曼淇威压力控制技术有限公司(即原常州常恒亚太电器有限公司),始建于1994年,位于常州高新技术开发区内,是开发生产压力控制器的专业化生产企业,产品主要用于家用空调、商用空调、制冰机等各类制冷设备和空压机、气动工具等工业设备中的高、低压力保护,现生产能力已超过600万只以上,产品已行销北美、欧洲、中东和亚洲,是目前中国最大的压力控制器生产企业,是中国著名品牌"常恒"商标唯一合法拥有者和使用者。

以质量包名牌,以技术包新求发展是企业发展战略。企业1996年在同行业中率先通过ISO9002质量保证体系认证,2010年又通过ISO9001:2008版质量保证体系认证,全部产品均通过了CQC、UL、C-UL、VDE、CE等国际国内认证;为响应欧盟于2006年7月1日实施的关于限制部份有害物质超标的"ROHS"指令,公司建立了相应的"ROHS"指令控制体系并购置了先进的专用检测设备,全部产品及所用材料和零部件均满足"ROHS"指令要求。

争创一流企业是我公司的奋斗目标,公司投资新建的占地10000平方米,建筑面积8000平方米的独立生产基地于2007年竣工并投入使用,同时进行的生产技术改造项目和引进的国际先进的生产设备和检测设备投入使用,使企业生产环境、规模、产品质量和技术水平达到了国际同类产品先进水平。

"质量第一、信誉第一、用户至上"是我们的服务宗旨,"成为您最有价值的供应商"是我们的承诺。热忱欢迎国内外广大用户选用"曼淇威"和"常恒"品牌压力控制器!万分诚挚地邀请广大用户到我公司来考察指导!您的意见和建议永远是我们最宝贵的财富!



本公司是常恒牌压力控制器唯一合法生产者和销售者。其它任何单位和个人生产和销售常恒商标的压力控制器均属假冒违法行为!

Our company is the sole legitimate Changheng pressure controller card producers and sellers. Any other units and individuals producing and selling pressure controller Changheng trademark counterfeiting are illegal!



BRIEF INTRODUCTION

Changzhou Match-Well Pressure Control Technology Co.,Ltd.was established in 1994. It is located in Changzhou High-tech Development Zone and specialized in developing and manufacturing pressure controls. The products are mainly used for the high-low pressure protection of residential and commercial air-conditioners, auto air-conditioners and some other industrial equipment. The annual production capacity is 6 million pieces, among which , the pressure controls for air-conditioners has 80% of the China market share of the same kind. With the expanding of the business and the improvement on the quality management and technology, the products have been accepted by North American, European and Asian customers. The quality and technology of the products have become the world class among the products of the same kind.

The enterprise's development strategy is to pursue technical innovation and create famous brand by quality. The enterprise took the lead in passing IS09002 Quality Assurance System in the same line of business in 1996. In 2002, the enterprise was also approved by IS09001:2000 Version Quality Assurance System. All of the products have been authenticated by CQC, UL, C-UL, VDE and CE, and the products have also passed the SGS inspection in answer to the RoHS standard starting on Jul. 1,2006 required by EU.

Our struggling target is to strive for the top class enterprise. To reach this target, we have invested RMB18,000,000 to build a new modern gardenesque factory in 2003 which occup ies the land of 78,000 square meters, and the building area of over 20,000 square meters. Besides, the enterprise invested another 10,000,000 RMB to introduce advanced pressure control production line and testing equipment based on the existing equipments.

The tenet of our service is: Quality first, Reputation first and Customer first. We promise to be your most valuable supplier. Customers from all over the world are warmly welcomed to choose Changheng and Match-Well brands pressure control. You are cordially invited to visit us and your valuable comments and suggestions will always be highly appreciated!



常州曼淇威压力控制技术有限公司

Changzhou Match-Well Pressure Control Technology Co.,Ltd.



















Quality Policy 质量方针 恪守诚信 追求卓越 Persist in honesty and faith to pursue excellence 持续改进 顾客满意 Satisfy customers with Continuous Improvement



Always Persist in Its Value Ideal

曼淇威一直坚持的价值理念

团结进取 1+1大于2是我们的团队价值观,不断进取是我们实现卓越的价值精神

创新发展 不断创新我们的技术和产品,满足客户不断增长的需要,是我们高速发展之动力

诚信满意 诚信是我们实现价值之根本,顾客满意是我们价值 之源泉

回馈社会 社会给予我们实现价值的机会,回馈社会是体现我们价值的良心

Unite to Make Progress our team has the value outlook that means one plus one being larger than two and continuous progress is our value spirit to realize excellence.

Innovative Development we'll continuously innovate our technique and products to meet customer's ever-growing demand and they are also the power motive for us to make speedy development.

Being Trustworthy to Satisfy Customer it is our root to be trustworthy to realize our value and it is our source of value to satisfy customers.

Feed Back to the Society The society gives us opportunity to realize our value and it is our conscience of the value to feed back to the society.

完善的质量保证体系





















YK型系列单刀单掷自动复位压力控制器



YK Series Single Cut Single Thrower Auto-Reset Pressure Control (YK-01H YK-02H YK-03H YK-01H YK-02H YK-03H)

产品特点 Product Specifications

采用英制管螺纹快速接头或铜管焊接式安装结构,使用方便,安装灵活,无须特殊的安装固定。

插片式或导线式连接方式可供用户任意选择。

单刀单掷型开关方式,常开式或常闭式开关接点结构可供任意选择。

熔焊密封式不锈钢压力感应器和全密封开关结构安全可靠。

在-14.5~750PSI(-0.1 Mpa~5.17 Mpa)压力范围内可根据用户要求任意选定压力值进行制造。

产品在出厂前其压力参数在工厂已按要求设定好,无需再设定,可直接使用。

Adopting Eng. thread quick connector (copper flare connection) or brass tube welding fitting structure, flexibly setting, easy to use and no special need for mounting and fixing .

Plugging or wiring connection designed to customers' choice.

SPST connection, normal open or normal close structure to customers' choice.

Security and reliability by adopting fusion welding stainless steel pressure inductor and full air-tight connection.

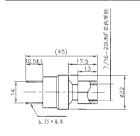
Any pressure value within -14.5~750 PSI (-0.1Mpa~5.17Mpa) can be made based on customers' requirement.

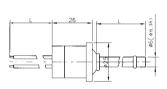
Pre-set pressure parameter before delivery allows direct use without resetting on the customers' site.

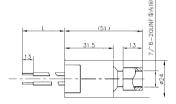


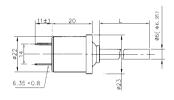


典型外形图 Typical Outline Drawing









工作原理 Operating Principle

该系列压力控制器主要利用内置的不锈钢可翻转动作膜片在感应到一定压力后可向反方向翻转的特性进行制造。当膜片动作时,会通过一个 导杆带动电气触点的吸合或打开。当感应压力降低至恢复值以下时,开关即可自动复位。

The series of pressure control are made based on the theory that an inside reversible stainless steel motion diaphragm turns over when inducing certain pressure. The electric contact opens or closes with the leader when the diaphragm moves. The switch resets automatically when induced pressure reduces below rated value.

用途 Application

该系列产品主要用于家用、商用、汽车空调、制冰机等制冷系统中的高、低压力保护控制,也可适用于各种空压机、设备工具、农用机械的液压和汽压的控制系统中。

The series of pressure control are used to the high, low pressure protection of some refrigeration system like residential, commercial, automobile air-conditioner and ice maker etc. It can also be used to hydraulic pressure and steam pressure control system of all kinds of air compressor, equipment or tool and agricultural machine.

设计参数 Designed Parameter

工作压力范围: -14.5~750PSI (-0.1Mpa~5.17Mpa)

爆破压力: 5000PSI

环境温度: -30℃~+80℃

系统介质温度: -50°C~+120°C

额定电流下的寿命次数: 30,000次,50,000次,100,000次可供选择

电气规格: 24Vac 时常规电气容量125VA

120/240Vac时常规电气容量375VA

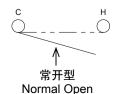
抗电强度. 断开触点间为AC700V/S, 端子对外壳为AC2000V/S

安全耐压:压力控制器可承受的不影响动作设定值的压力。

最高工作压力范围 The highest range of working pressure	安全耐压 Safety proof pressure
<145PSI(1MPa)	250PSI(1.7MPa)
145PSI(1MPa)~400PSI(2.75MPa)	600PSI(4.1MPa)
>145PSI(2.75MPa)	800PSI(5.5MPa)

电气原理图 Electric Theory Drawing



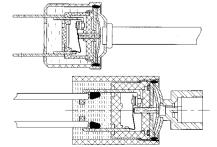


- ♦ Working pressure range: -14.5~750PSI (-0.1Mpa~5.17Mpa)
- ♦ Burst Pressure: 5000PSI
- ♦ Ambient temperature: -30°C ~+80°C
- ◆ System medium temperature: -50°C ~+120°C
- Life cycles under the rated electric current:
 30,000 times, 50,000 times and 100,000 times optional
- Electrical Rating: At 24Vac, normal electric capacity: 125VA At 120/240Vac, normal electric capacity: 375VA
- Dielectric Strength: Between disconnected contacts: AC700V/S

Terminal to outer shell: AC2000V/S

 Safety proof pressure: The pressure that the control can endure while not affects the rated motion value

典型结构图 Typical Structure Drawing





自动复位压力控制器

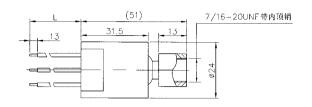
YK Series Single Cut Double Thrower Auto-reset Pressure Control (YK-01H YK-02H YK-03H YK-01H YK-02H YK-03H)

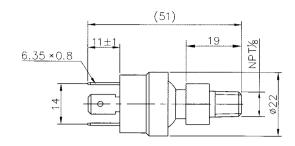
品特点 Product Specifications

- 单刀双掷型开关方式,双电路自动转接。
- 熔焊密封式不锈钢感应器,全封闭开关结构安全可靠。
- 英制管螺纹快速接头或铜管焊接式安装结构可供选用。
- 插片或导线连接方式可供任意选择。
- 在-14.5~750PSI(-0.1Mpa~5.17 MPa)压力范围内可根据用户要求的压力值进行制造。
- ◆ 产品在出厂前其工作压力参数已在工厂按要求设定好,使用时无需再设定。
- Single cut double thrower switch mode, double circuits commutate automatically
- Security and reliability by adopting fusion welding stainless steel pressure inductor and full air-tight connection.
- ♦ Adopting Eng. thread quick connector (copper flare connection) or brass tube welding fitting structure
- Plugging or wiring connection designed to customers' choice.
- Any pressure value within -14.5~750 PSI (-0.1Mpa~5.17Mpa) can be made based on customers' requirement.
- Pre-set pressure parameter before delivery allows direct use without resetting on the customers' site.



典型外形图 Typical Outline Drawing





工作原理 Operating Principle

- ◆ 该系列压力开关主要利用内置不锈钢膜片在感应到一定压力后可向相反方向翻转的特性制造。当膜片动作时,会通过一个导杆推动电气触点(H)断开,同时接通电气触点(L)。当系统压力降低时,膜片瞬时复位,电气触点在开关簧片的作用下自动从触点L断开并与触点H闭合。
- ♦ The series of pressure switches are made based on the theory that an inside reversible stainless steel motion diaphragm turns over when inducing a certain pressure. The electric contact (H) opens and electric contact (L) closes simultaneously when the diaphragm moves. When the system pressure reduces, the diaphragm resets instantly, with the function of which, the electric contact disconnects from contact (L) and connects with contact (H) automatically.

用途 Application

- ◆ 该系列产品主要用于空调制冷系统和精密压力控制系统中,也可用于各种设备工具的精确高低压力保护。
- ◆ The product is mainly used in refrigeration system of air-conditioner and precise pressure control system; It can also be used as the precise high-low pressure protection of variety of equipments and tools.

设计参数

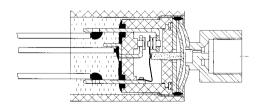
- ◆ 工作压力范围: -14.5~750PSI(-0.1Mpa~5.17Mpa)
- ◆ 爆破压力: 5000PSI
- ◆ 环境温度: -30°C~+80°C
- ◆ 系统介质温度: -50°C~+120°C
- ◆ 额定电流下的寿命次数: 30,000次, 50,000次, 100,000次可供选择
- ◆ 电气规格: 24Vac时常规电气容量125VA
 - 120/240Vac时常规电气容量375VA
- ◆ 安全耐压:断开触点间为AC700V/S,端子对外壳为AC2000V/S
- ◆ 安全耐压:压力控制器可承受的不影响动作设定值的压力。

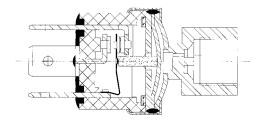
最高工作压力范围 The highest range of working pressure	安全耐压 Safety proof pressure
<145PSI(1MPa)	250PSI(1.7MPa)
145PSI(1MPa)~400PSI(2.75MPa)	600PSI(4.1MPa)
>145PSI(2.75MPa)	800PSI(5.5MPa)

Designed Parameter

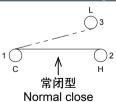
- ♦ Working pressure range: -14.5~750PSI (-0.1Mpa~5.17Mpa)
- ♦ Burst Pressure: 5000PSI
- ◆ Ambient temperature: -30°C ~+80°C
- ♦ System medium temperature: -50°C ~+120°C
- ◆ Life cycles under the rated electric current:
- 30,000 times, 50,000 times and 100,000 times optional
- ♦ Electrical Rating: At 24Vac, normal electric capacity: 125VA
- At 120/240Vac, normal electric capacity: 375VA
- ♦ Dielectric Strength: Between disconnected contacts: AC700V/S Terminal to outer shell: AC2000V/S
- ♦ Safety proof pressure: The pressure that the control can endure while not affects the rated motion value

典型结构图 Typical Structure Drawing





电气原理图 Electric Theory Drawing



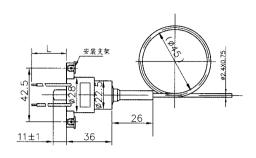


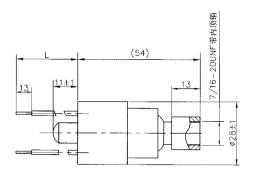
产品特点 Product Specifications

- ◆ 采用英制管螺纹快速接头或铜管(含毛细管)焊接式连接结构,安装方便,可满足不同的需要。
- ◆ 外壳采用板装式(自带安装耳)或线装式(无需另外固定)两种安装方式,可供用户任意选择。
- ◆ 密封式双保险碟片不锈钢感应器,确保在压力作用下自动快速断开开关接头,并切断开关接头与系统内压力的联系,确保系统不因意外接通开关启动机器而导致机器损坏,特别安全可靠。
- ◆ 独立的自动断开和手动复位双结构设计,极大地提高了压力保护的安全性和可靠性。
- ♦ Adopt Eng. thread quick connector (copper flare connection) or brass tube (incl. capillary) welding connecting structure, easy to mount for different needs.
- ♦ Board-assembly (with mounting ears) or wire-assembly (no need for separate fixing) can be chosen for outer shell assembly.
- ♦ The air-tight bi-security disc and stainless steel sensor ensure that the switch opens instantly automatically under the pressure and cuts off the connection between the switch contact and the pressure inside the system. The system will not be able to start up the machine by accidentally actuating the pressure switch, which is safe and reliable enough to prevent the machine from damaging.
- ♦ The independent structure design of auto switching off and manual resetting enhances the maximum security and stability for the pressure protection.



「型外形圏 Typical Outline Drawing





Operating Principle

- 当系统内压力高于额定的安全压力时,感应器内压力感应碟片瞬时发生动作,通过推杆推动保险碟片达到锁定位置,同时经保险碟片通过连 接导杆推动开关断开。当压力降低时,感应碟片自动复位,因保险碟片已处于锁定位置而不能自动复位,开关不能接通。只有当按动外部按钮, 强制推动保险碟片解除锁定达到开关接头接通状态时,系统才能恢复正常工作状态。
- When pressure inside the system is higher than rated safe pressure, the sense disc starts to function instantly, resulting in pushing the security disc to the lock position by the rod and cutting off the switch by security disc through connecting rod at the same time. When the pressure reduces, the sense disc resets automatically while the security disc can't reset because it is at the lock position, hence the switch can't cut in. The system will reset to normal status only when pressing the outside button to push the security disc forcibly to unlock in order to cut in the switch.

Application

- 该系列压力开关适用于对压力保护有特殊要求的各类空调制冷系统及各种设备、工具压力系统超压保护作用的广泛场合。该 压力开关可直接安装在管路上,或根据设备要求安装于设备面板上。
- The series of switches are used to all air conditioning and refrigeration systems that require special pressure protection and broad range of extra-high pressure protection for the pressure systems of variety of tools and equipments. They can be directly installed on the pipeline or on the control panel based on the equipments situation.

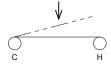
Designed Parameter

- 工作压力范围: 145PSI~750PSI (1.0Mpa~5.17Mpa)
- 爆破压力: 5000PSI
- 环境温度: -30℃~+80℃
- 系统介质温度: -50°C~+120°C
- 电气规格: 24Vac时常规电气容量125VA 120/240Vac时常规电气容量375VA
- 抗电强度: 断开触点间为AC700V/S, 端子对外壳为AC2000V/S
- 安全耐压:压力控制器可承受的不影响动作设定值的压力。
- Working pressure range: 145PSI~750PSI (1.0Mpa~5.17Mpa)
- Burst Pressure: 5000PSI
- Ambient temperature: -30°C ~+80°C
- System medium temperature: -50°C ~+120°C
- Electrical Rating: At 24Vac, normal electric capacity: 125VA At 120/240Vac, normal electric capacity: 375VA
- Dielectric Strength: Between disconnected contacts: AC700V/S Terminal to outer shell: AC2000V/S
- Safety proof pressure: The pressure that the control can endure while not affects the rated motion value

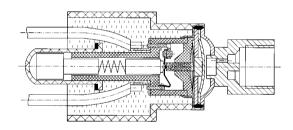
最高工作压力范围 The highest range of working pressure	安全耐压 Safety proof pressure
145PSI(1MPa)~400PSI(2.75MPa)	600PSI(4.1MPa)
>400PSI(2.75MPa)	800PSI(5.5MPa)

「理图 Electric Theory Drawing

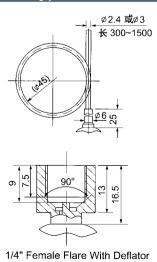




Typical Structure Drawing



Typical Connector Drawing





复位压力控制器

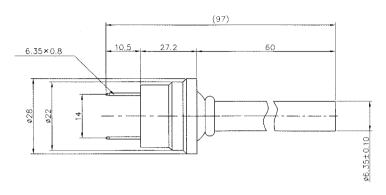
YKSeries Extra-High Pressure Auto-reset Pressure Control

品特点 Product Specifications

- 采用英制管螺纹快速接头或铜管焊接式结构,使用方便,安装灵活,无需特殊的安装固定,
- 插片式或导线式连接方式可供用户任意选择;
- 单刀单掷型开关方式,常开式开关接点结构; 熔焊密封式不锈钢压力感应器外加钢制防爆外壳,安全可靠;
- 在800PSI~2500PSI(5.5Mpa~17.2Mpa)压力范围内可根据用户要求任意选定压力值进行制造;
- 产品在出厂前其压力参数在工厂已按要求设定好,无需再设定,可直接使用;
- Adopt Eng. thread quick connector (copper flare connection) or brass tube welding structure, easy to use and no special installing requirement.
- Plugging or wiring connection designed to customers' choice.
- Single cut single thrower switch mode and normal open structure...
- Security and reliability by adopting fusion welding stainless steel pressure inductor covered by burstproof outer shell made of steel.
- ♦ Any pressure value within 800PSI~2500PSI (5.5Mpa~17.2Mpa) can be made based on customers' requirement.
- Pre-set pressure parameter before delivery allows direct use without resetting on the customers' site.



典型外形图 Typical Outline Drawing



工作原理 Operating Principle

- ◆ 该系列压力开关主要利用内置的不锈钢可翻转动作膜片在感应到一定压力后可向反方向翻转的特性进行制造。当膜片动作时,会通过一个导杆带动电气触点的打开。当在感应压力降低至恢复值以下时,压力开关即可自动复位。
- ♦ The series of pressure control are made based on the theory that an inside reversible stainless steel motion diaphragm turns over when inducing certain pressure. The electric contact opens with the leader when the diaphragm moves. The switch resets automatically when induced pressure reduces below rated value.

用途 Application

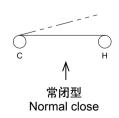
- ◆ 该系列产品是专门针对使用二氧化碳作为制冷剂的制冷设备,其制冷系统压力大大高于常规制冷剂压力的特殊要求而设计制造,用于系统的高压保护,同时也适用于各类系统高压保护压力大于800PSI(5.5MPa)的设备及工具。
- ♦ The series of products are specially designed and manufactured for the refrigeration equipment using CO₂ as refrigerant, the pressure of this kind of refrigeration system is much higher than that of the normal system. The product also applies to all equipments and toolings with the high protection pressure over 800PSI(5.5 Mpa).

设计参数 Designed Parameter

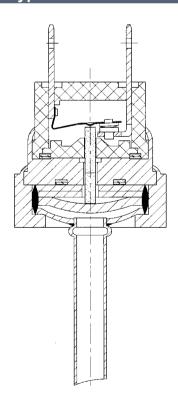
- ◆ 工作压力范围: 800~2500PSI(5.5Mpa~17.2Mpa)
- ◆ 爆破压力: 5000PSI(34.5MPa)
- ◆ 环境温度: -30°C~+80°C
- ◆ 系统介质温度: -50°C ~+120°C
- ◆ 电气规格: 24Vac时常规电气容量125VA 120/240Vac时常规电气容量375VA
- ◆ 抗电强度: 断开触点间为AC700V/S, 端子对外壳为AC2000V/S
- ♦ Working pressure range: 800--2500PSI(5.5Mpa~17.2Mpa)
- ♦ Burst Pressure: 5000PSI(34.5MPa)
- ♠ Ambient temperature: -30°C ~+80°C
- ♦ System medium temperature: -50°C ~+120°C
- Electrical Rating: At 24Vac, normal electric capacity: 125VA
 At 120/240Vac, normal electric capacity: 375VA
- ♦ Dielectric Strength: Between disconnected contacts: AC700V/S

 Terminal to outer shell: AC2000V/S

电气原理图 Electric Theory Drawing



典型结构图 Typical Structure Drawing





╱®常州曼淇威压力控制技术有限公司

Changzhou Match-Well Pressure Control Technology Co., Ltd.

YK型系列控制器使用注意事项

Operation Instruction of YK series Pressure Control

防止高压冲击

- ◆ 对于工作压力在145PSI(1MPa)至750PSI(5.17MPa)的压力控制器在检验和使用时应有限压装置,避免大于750PSI(5.17MPA)的高压冲击。
- ◆ 对于工作压力低于145PSI(1MPa)的压力控制器在检验和使用时,应有限压装置(减压器),避免大于250PSI (1.72MPA) 的高压冲击。

Prevention High Pressure Punch

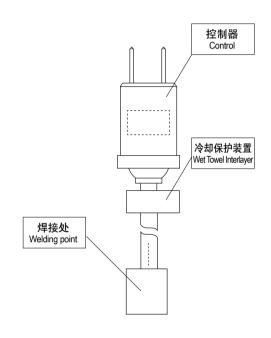
- ♦ A pressure reducer must be used when testing and operating the pressure control with working pressure ranging from 145PSI(1Mpa)to 750PSI(5.17Mpa) to avoid high pressure punch over 750PSI (5.17MPa).
- ♦ A pressure reducer (reductor)must be used when testing and operating the pressure control with working pressure below 145PSI (1Mpa) to avoid high pressure punch over 250PSI (1.72Mpa).

防止悍控时的真温损伤

◆ 对于铜管焊接式产品在装配时应采用水冷焊接工艺,避免高温损伤。

Preventing from High Temperature Injury When Welding

When assembling brass tube products, water-cool welding process must be used to avoid injury caused by over temperature.



压力控制器高低压比与最小公差对照表 Pressure Reference and Minimum Tolerance Table

动作压力值(PSI) Working pressure (PSI)	高低压比(%) Hi-Low pressure dif.ratio(%)	最小公差(±)(PSI) Minimum tolerance(±)(PSI)
3-29	50~70	3
30-80	45~60	5
81-160	50~70	7
161-240	60~75	10
241-350	60~70	10
351-450	65~80	10
451-500	65~80	15
501-750	70~80	25

高低压比=(设定低压值/设定高压值)×100%

Hi-low pressure dif.ratio=(rated low pressrue/rated high pressure) × 100%

压力单位换算:1Mpa = 145PSI = 10bar = 10.2Kg/cm²

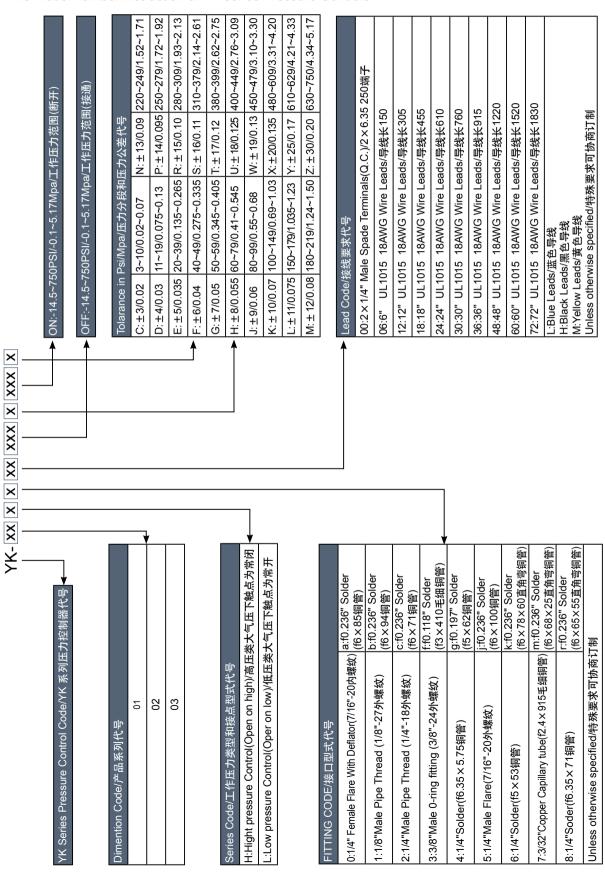
Pressure unit conversion:1Mpa = 145PSI = 10bar = 10.2Kg/cm²

如有特殊要求请与本公司工程部联系

Contact Engineering Department for any special requirements

YK型系列压力开关型号规格说明

The model number instruction of YK series Pressure Controls



MATCH-WELL

曼淇威压力控制器

PRESSURE SWITCH



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