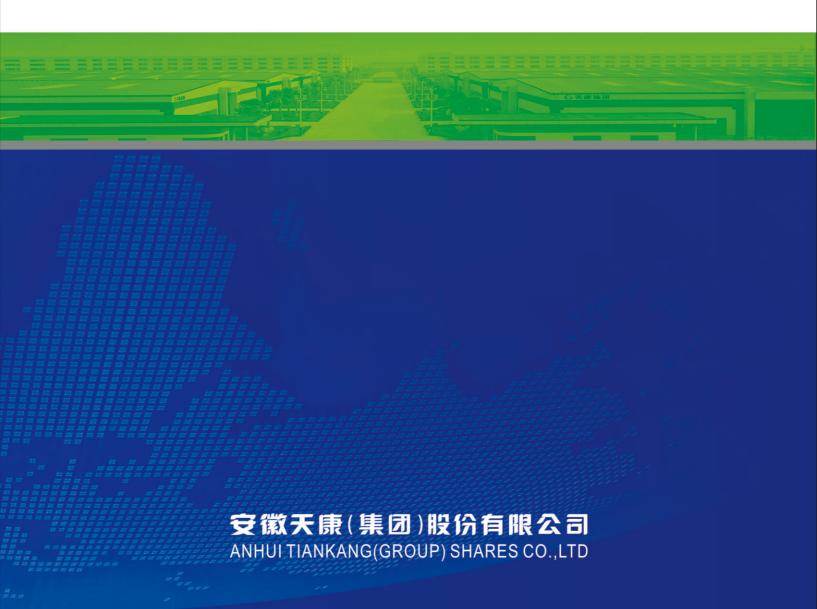


压力表选型样本

PRESSURE GAUGE
PRODUCT SELECTION CATALOGUE



INNOVATION MAKES EXCELLENT

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企业简介 Brief Introduction

长江宛如一条巨龙奔腾不息,在长江之滨的天长市有这样一颗璀璨的明珠—安徽天康(集团)股份有限公司,在经历了岁月的历练与洗礼后愈发闪耀夺目。

安徽天康(集团)股份有限公司创建于1974年,总部位于"长三角"经济圈核心区域—天长市,是中国民营企业制造业500强企业、中国电子信息百强企业、国家级守合同重信用企业、国家高新技术企业、安徽省依法纳税先进企业、银行资信AAA级企业、中国仪表行业十强企业、中国电线电缆十强企业、安徽省重点骨干企业、"全国五一劳动奖状"获得者等荣誉。

天康集团历经四十年的蓬勃发展,已形成集仪器仪表、光电缆、医疗卫生、 锂电池等跨行业、多元化的集团公司,下属子公司达二十余家。旗下产品凭借良 好的质量与服务,被广泛应用于石油、电力、化工、通讯、卫生、新能源汽车及 储能等行业和领域。

作为皖东经济最具活力与贡献的骨干企业之一,天康集团以"追求卓越,缔造满意"为目标,依托一流的产品、一流的管理、一流的服务,不仅在国内市场中赢得了广泛赞誉;在国际市场中,天康产品远销欧洲、非洲、亚洲等46个国家和地区。

天康集团在发展中逐步形成了独特的品牌文化及着眼全球的经营部局,全力塑造"高科技、高品质、国际化"的品牌形象。始终秉承"有跨越才有卓越"的天康精神,在创建和谐企业的基础上,引进国际先进的构架与模式,组织企业的生产经营管理体系。在积极参与国际化竞争的基础上,不断把握市场发展脉搏,寻求经济战略联盟,与全球伙伴共同发展与进步。如今天康人将全新的投入化为无私的奉献,与世界共同发展,与人类一起进步。



Yangtze River like a dragon Pentium, there is such a shining pearl - Anhui Tiankang (Group) Co., Ltd. in Tianchang City in the Yangtze River foreshore, in after years of experience and baptism increasingly shining brightly.

Anhui Tiankang (Group) Co., Ltd. created in 1974, the headquarters is located in the "Yangtze River Delta" economic circle core area - Tianchang City, is China's private enterprises in the manufacturing industry 500 strong enterprises, China's electronic information hundred enterprises, state-level keep contract re credit enterprise, national new and high technology enterprise, Anhui Province tax law advanced enterprises, bank credit AAA level enterprise, China instrument industry ten strong enterprises, top ten enterprises in the Chinese wire and cable, Anhui province key enterprises, "national labor certificate" get "and other honorary.

After forty years of vigorous development, the group has formed a set of instruments, optical cable, medical and health, lithium batteries, such as cross industry, diversified group companies, subsidiaries of more than twenty. Products with good quality and service, is widely used in oil, electricity, chemicals, communications, health, new energy vehicles and energy storage and other industries and areas.

As one of the backbone enterprises in Anhui east economy the most vitality and contribution, tecon group to "the pursuit of excellence, creating satisfaction" as the goal, relying on the first-class products, first-class management, first-class service, not only in the domestic market won wide acclaim; in the international market, the day Kang products are exported to 46 countries and regions, including Europe, Africa, and Asia.

Tecon group in the developing gradually formed a unique brand culture and focus on global business department bureau, spare no effort to shape the brand image of "high-tech, high-quality, internationalization". Always adhering to the "excellence," the spirit of Tiankang across only, to create the basis for a harmonious enterprise, the introduction of international advanced framework and patterns, organization of production management system. Actively participate in the international competition, and continue to grasp the pulse of the market development, to seek economic and strategic alliances, and global partners to develop and progress. Such as today, the people will be a new investment into the selfless dedication, and the common development of the world, together with the progress of mankind.



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Y系列一般压力表

General pressure gauge of Y series

压力表工作原理

弹簧管敏感元件是弯成圆形,积面积显椭圆形的 管道。测量介质的压力作用在弹簧管内侧,这样弹簧 管椭圆截面会趋于圆形截面。其变形的大小取决于测 量介质的压力大小。弹簧管变形通过机芯间接地由指 针显示测量介质的压力。 "C" 型弹簧管可用于测量 大约60bar的压力,对于更高的压力,弹簧管采用多 重线圈或同一水平面的螺旋状线圈。

一般压力表适用于测量无爆炸,不结晶、不凝固 及对铜合金不起腐蚀作用的液体或气体等介质的压力。 仪表的测量系统由接头、弹簧管和传动机构组成。通 过指针指示仪表读数。外径60、100、150一般压力 表有径向直接安装、径向后带边凸装、径向前带边嵌 装、轴向直接安装、轴向后带边凸装和轴向前边嵌装 六中安装型号可供选择。

Working principle of pressure gauge

The sensitive element of the spring tube is made of phosphor bronze alloy material "C" type. The pressure of the measured medium inside the tube in spring, so spring pipe section elliptical cross section tends to circular cross section. The size of the deformation depends on the pressure of the medium. The deformation of the spring tube is indirectly by the movement of the core by a pointer to display the pressure of the measuring medium. "C" type spring tube can be used to measure the pressure of about 60bar, for higher pressure, the spring tube using multiple coils or the same level of spiral coil.

The general pressure gauge is suitable for measuring the pressure of a liquid or gas and other material with no explosion, crystal, solidifying and no corrosion to the copper alloy. The measuring system of the instrument is composed of a joint, spring tube and a transmission mechanism and the value of the meter is displayed by the pointer. For the 60, 100, 150 general pressure gauge, there are 6 models optional which are respectively are bottom mounting, bottom mounting with back flange, bottom mounting with front flange, back mounting, bottom mounting with back flange and bottom panel mounting with front flange.



径向后带边安装 Bottom mounting with back flange



径向直接安装 **Bottom mounting**



轴向直接安装 Back mounting



轴向前带边安装 Back mounting with front flange



轴向直接安装 Back mounting



轴向前边嵌装 Back mounting with front flange

选型注意事项

用户必须依据现场的工作环境、刻度范围和性能 来选择合适的压力表。

根据各种表的应用范围来选择压力的类型。量程 应选择理想操作压力在阴影范围内。仪表的压力部分 一般使用至压力测量范围的3/4。

压力仪表的安装应注意如下情况:

- ▶远离热源、震动及安装便于观察;
- ▶压力接口连接需密封;
- ▶如果必要也可使用毛细管连接安装;
- ▶防护等级:IP54;
- ▶执行标准: GB/T 1226-2010。

主要技术指标

测量范围、测量精度

Selection attention

The users must select the appropriate pressure gauge according to the working environment, the scale range and the performance required.

Users may select the type of pressure according to the scope of application. Range should selected the ideal operating pressure which must be in the shadow range. The pressure scope used for the gauge is generally used within 3/4 of the total range of pressure.

The installation of pressure gauges should be noted as follows:

- ▶ It should be away from heat heat source, vibration and it must be easy for observation when installation;
- ▶ Pressure port connection should be sealed;
- ▶If necessary, the capillary can also be used for installation.
- ▶ Protection level: IP54
- ► Execution standard: GB/T1226-2010

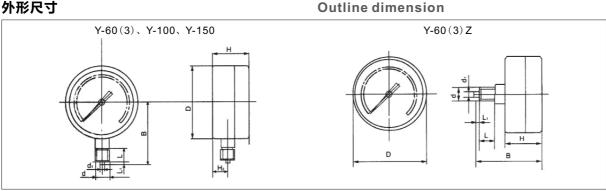
Main technical indexes

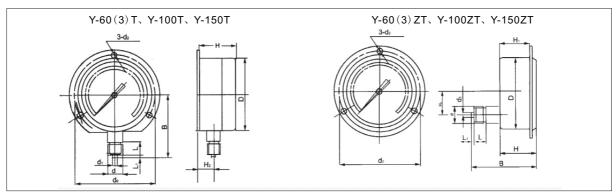
Measuring range and measuring precision

型 号 Model	Y-60 Y-60-Z Y-60T Y-60ZT	Y-100 Y-100T Y-100ZT	Y-150 Y-150T Y-150ZT		
精度等级 Grade of precision	2.5	1.0、1.6			
1	0~0.1, 0.16, 0.25, 0.4, 0.6, 1, 1.6, 2.5, 4, 6				
测量范围MPa Grade of precision	0~10, 16, 25, 40				
5.13.35 5.7 p. 5.15.15.1	-0.1~0.06,0.15,0.3,0.5,0.9,1.5,2.4				

The environmental conditions for usage: -40-70 $^{\circ}\text{C}$ and the relative humidity is not more than 85% $^{\circ}$ Temperature effect: when the temperature is within 20±5°C, it is not more than 0.4%/10°C

外形尺寸





Model	D	d		L	d0	В	Н	d2	H1	H2	L1									
Y-60						-	55	30	-	-	13									
Y-60Z	φ60	M14×1.5	φ5	14	-	52	30	-	-	0										
Y-60ZT	Ψου	W114^1.5	ΨΟ	14	68	55	30	φ4.5	-	13										
Y-60T									00	52	30	φ4.5	25	0						
Y-100					-	90	44	-	-	18	2.5									
Y-100T	φ100				118	90	44	φ5.5	-	18	2.5									
Y-100ZT		M20×1.5		φ6					20	20	20	20	20	110	90	44	φ5.5	36	32	
Y-150	φ150	- M2U×1.5 φο	WIZU×1.5 Ψ0		20	20	20	20			-	115	47	-	-	18				
Y-150T					405	115	47	φ5.5	-	18										
Y-150ZT								165	90	47	φ5.5	36	55							

Y系列一般压力表产品选型

Y series product selection of general pressure gauge

一般压力表 Y- General pressure gauge Y-						
表盘直径 Diameter of the gauge dis φ60 φ100 φ150	60 100 150					
安装方式 Installation method 径向直接安装 Bottom mounting 径向带后边凸装 Bottom mounting with back flange 径向带前边嵌装 Bottom mounting with front flange 轴向直接安装 Back mounting 轴向带后边凸装 Back mounting with back flange 轴向带前边嵌装 Back mounting with front flange	2	No coding T Q Z Z T CQ				
过程连接 Process connection M14×1.5 M20×1.5 G1/2 1/2'NPT 其他(注明) Others(note)		M20 G1 1/2 其他	×1.5)×1.5 l/2 'NPT (注明) s(note)			
接液材质 Liquid material 铜 Copper			(Cu		
精度等级 Precision grade 1.0 1.6 2.5 4.0				1	1.0 1.6 2.5 1.0	
附件可选 Optional accessories 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection device 冷凝管 Siphon tube 其他 Others					S C S 文字	IN SR DP SP 字注明 scription

注:1.安装方式中: ϕ 60常规的是轴向同心式, ϕ 100、 ϕ 150的为轴向偏心式,若要其他安装方式的,请咨询销售工程师并在订货时注明。 Note: 1. installation methods: for the ϕ 60, the conventional type is the axial concentric one, for the ϕ 100, ϕ 15, it is the axial eccentric type. If other installation is required, please consult the sales engineer and specify the demand when ordering.

YB系列全不锈钢压力表

YB Series Stainless Steel pressure gauge

工作原理

仪表由导压系统(包括接头、弹簧管等)、齿轮传动 机构、指示装置和外壳组成。全部零件均采用不锈钢 材料制成。当弹簧管在被测介质的压力作用下,其管 端产生相应的弹性变形,经齿轮传动机构放大,由指 示装置将被测压力值在度盘上指示出来。仪表外壳为 密封型结构,能有效地保护内部机件免受环境影响和 污秽的侵入。同时通过对表壳内充油,能够抗被测介 质压力的脉动和工作环境剧烈震动的影响,兼顾了耐 腐蚀及抗震性能。

全不锈钢压力表广泛应用于石油、化工、冶金、 轻工、化纤等工业部门。可测量腐蚀性较强介质的压 力,并能在有剧烈振动和工作环境较恶劣的场合使用。

仪表零件均采用不锈钢材料制成。整机结构设计 新颖,工艺精良。仪表具有较高的测量精确度和持久 的稳定性,使用适应性强。是国内用户对引进国外先 进技术装备中同类型仪表实现国产化的理想配套产品。

Working principle

The instrument consists of pressure guiding system (including joint, spring tube, etc.), gear drive system, indication device and shell. All the components are made of stainless steel. When the spring tube is under the pressure of the measured medium, corresponding elastic deformation will be produced on the pipe end, which is amplified by the gear drive mechanism and the measured pressure value is indicated by the indication device on the dial. The instrument shell is sealing structure which can protect effectively the internal parts from environmental influence and intrusion of filth. Meanwhile, filling oil into the shell is able to resist the pulsation of the measured medium pressure and influence of abrupt vibration of working environment, considering both the resistance to the corrosion and shock.

Full stainless steel pressure gauges are widely applied to industries like petroleum, chemistry, metallurgy, chemical fiber, etc. They are able to measure the pressure of medium which is strongly corrosive and they can be applied in areas with strong vibration and harsh working environment.

The instrument components are all made of stainless steel. The structure of the whole machine is novel in design and fine in process. The instrument has high measurement accuracy, lasting stability and strong operation adaptability. It is ideal supporting product to realize localization of similar type of instrument in imported foreign advanced technology equipment.

主要技术指标

标度范围、精确度等级

Main technical indexes

Scale range and accuracy class

型 덕 Model	标度范围MPa Scale Range Mpa	精确度等级 Accuracy Class
Y-60B Y-63B	0~0.6、1、1.6、2.5、4、6、 10、16、25、40、60 -0.1~0.5、0.9、1.5、2.4	2.5,4.0
Y-100B Y-150B	0~0.1, 0.16, 0.25, 0.4, 0.6, 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60 -0.1~0, 0.06, 0.15, 0.3, 0.5, 0.9, 1.5, 2.4	1.0、1.6、2.5

使用环境温度:-40-70℃;

温度影响:不大于0.4%10℃(使用温度偏离20 ±5℃);

抗工作环境振动:V·H·3;

外壳防护等级: IP64、IP65。

Ambient temperature for operation: -40-70°C

Temperature influence: no more than 0.4%10°C (the operation

temperature deviates by 20 ±5°C)

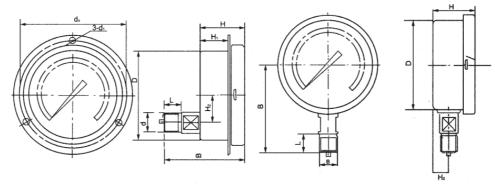
Anti-vibration in the working environment: V·H·3

Shell Protection Class: IP64、IP65

零件 Part	材料牌号 Material grade					
名称 Name	YB-60	YB-100 , YB-150				
接头 Joint	0Cr18Ni9 (304)	0Cr17Ni12Mo2 (316)				
弹簧管 Spring tube	12Cr18Ni9 (321)	0Cr17Ni12Mo2 (316)				
外壳 Shell	12Cr18Ni9 (321)					

外形尺寸

Outline dimension



型号 Model	D	В	d	L	Н	H2
YB-60	φ60	55	M14×1.5、1/4"(NPT)	14	35	13
YB-100	φ100	90	M20×1.5 G、1/2"		44	18
YB-150	φ150	120	1/2"NPT	20	44	18

YB系列全不锈压力表产品选型

The selection of stainless steel pressure gauge

全不锈钢压力表YB- Whole stainless steel pressure ga 表盘直径 Diameter of the gauge dis				
φ60	60			
φ100	100			
φ150	150			
安装方式 Installation method				
径向直接安装 Bottom mounting				
径向带后边凸装 Bottom mounting with back flange	无代码 No coding			
径向带前边嵌装 Bottom mounting with front flange	T			
轴向直接安装 Back mounting	Q Z			
轴向带后边凸装 Back mounting with back flange	ZT			
轴向带前边嵌装 Back mounting with front flange	ZQ			
过程连接 Process connection				
M14×1.5	M14×1.5			
M20×1.5	M20×1.5			
G1/2	G1/2			
1/2'NPT	1/2'NPT			
其他(注明)	其他(注明)			
Others(note)	Others(note)		
接液材质 Liquid material				
304SS		304		
316SS		316		_
精度等级 Precision grade				
1.0			1.0	
1.6			1.6	
2.5			2.5	
4.0			4.0	
附件可选 Optional accessories				ZN
阻尼器 Damper			-	SR
散热器 Radiator			(OP
过压保护器 Overvoltage protection device				SP
冷凝管 Siphon tube				字注明
其他 Others			Text de	scription

YN系列耐震压力表

Vibration proof pressure gauge of YN series





应用

耐震压力表主要用于冶金、电力、石油、化工、轻工、机械等工业部门的压力检测。压力表依靠内部充灌阻尼油和配套缓冲装置等措施,具有良好的耐震性能。适用于被测介质的压力有强烈脉冲变化或压力冲击和在生产工艺中经常突然卸荷的场合;以及环境震动较大的场所。仪表能测量气体、液体脉动压力的平均值,以克服介质强烈脉冲及环境震动对仪表带来的损害,确保读数的准确性。

不锈钢耐震压力表的外壳用不锈钢材料制成(简称半钢),可在有腐蚀性、振动较大的恶劣环境中使用。

本仪表的观察窗选用高强度的工程塑料或安全玻璃制成。 仪表指示清晰,使用安全可靠。

主要技术指标

型号、结构型式、标度范围及精确度等级

Application

The shock-proof pressure gauge is mainly used to check the pressure for industrial sectors like metallurgy, electric power, petroleum, chemical industry, light industry and machinery. The pressure gauge is provided with measures like filling damping oil inside and with damping device, so it has good shock-proof performance. It is applicable to fields where the pressure of the measured medium experiences strong pulse change or pressure impact and when there is often sudden unloading during the production process and sites where the environmental vibration is large. The gauge is able to measure the average value of the gas and liquid pulsation pressure to overcome the damage to the gauge due to strong medium pulse and environmental vibration so as to ensure the accuracy of the reading.

The shell of stainless shock-proof pressure gauge is made from stainless steel (simply called semi-steel) and it is able to be used in harsh environment with corrosivity and large vibration.

The observation window of this instrument is made from engineering plastic with high strength. The instrument has clear indication, safe and reliable operation.

Main technical index

Mode, structural type, scale range and accuracy level

型号 Mode	结构型式 Structure Type	标度范围MPa Scale Range Mpa	精确度等级 Accuracy Class		
YN-60	径向 Radial	0~0.1; 0~0.16;0~0.25;0~0.4;			
YN-60ZT	轴向带边 Axial with side	0~0.6;0~1;0~0.25;0~0.4; 0~0.6;0~1;0~1.6;0~2.5;0~4; 0~6:0~10:0~16:0~25	2.5,4.0		
YN-60	径向 Radial	0 0,0 10,0 10,0 20			
YN-100	径向 Radial	0.04.0.046.0.025.0.04.			
YN-100ZT	轴向带边 Axial with side	0~0.1; 0~0.16;0~0.25;0~0.4; 0~0.6;0~1;0~1.6;0~2.5;0~4; 0~6;0~10;0~16;0~25;0~40;0~60			
YN-100	径向 Radial	0 0,0 10,0 10,0 20,0 10,0 00	1.0,1.6,2.5		
YN-150	径向 Radial	0~0.1;0~0.16;0~0.25;0~0.4;	1.0, 1.0,2.0		
YN-150ZT	轴向带边 Axial with side	0~0.6;0~1;0~1.6;0~2.5;0~4; 0~6;0~10;0~16;0~25;0~40;			
YN-150	径向 Radial	0~60;0~100			

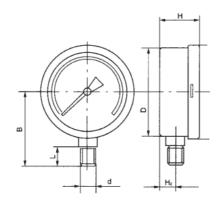
^{1、}使用环境温度:5~55℃(表壳内充甘油) -40-70℃(表壳内充硅油):

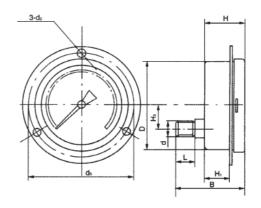
2、抗工作环境振动等级:V·H·4,V·H·5。

- 1. Ambient temperature for operation: $5 \sim 55^{\circ}$ C (glycerine filled in the shell), $-40-70^{\circ}$ C (silicon oil filled in the shell).
- 2. Anti-vibration class in the working environment: V·H·4.

标度范围、精确度等级

Scale range and accuracy class





型号 Model	D	Н	H2	В	d2	d0	d	L	H1
YN-60		32	13	55	-	-			-
YN-60ZT	φ60	32	0	65	4.5	76	M14×1.5	14	22
YBN-60		32	13	55	-	-			-
YN-100		44	18	90	-	-			-
YN-100ZT	φ100	44	30	90	5.5	118	M20×1.5	20	27
YBN-100		44	18	90	-	-			-
YN-150		44	18	120	-	-			-
YN-150ZT	φ150	44	55	95	5.5	165	M20×1.5	20	27
YBN-150		44	18	120	1	-			-

填充液指标

Filling index

填充液名称 Name of filling liquid	折射率 Refractive index	流动点 Pour point	闪点 Flashing point	比热 Specific heat
硅油(50cs) Silicone oil (50cs)	1.402	-50	300	0.36
硅油(100cs) Silicone oil (100cs)	1.403	-50	300	0.35
硅油(500cs) Silicone oil (500cs)	1.403	-50	300	0.35
甘油 Glycerol	1.473	-50	300	2.40

压力表Y- Pressure gauge Y-										
売体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper	oding									
压力表类别 Pressure gauge category 耐震 Vibration proof	ı	N								
连接符号 Connection symbol			-							
表盘直径 Diameter of the gauge disc]					
φ60 φ100 φ150 其他			1 1	60 00 50 her						
安装方式 Installation method 径向直接安装 Bottom mounting 径向带后边凸装 Bottom mounting with back flange 径向带前边嵌装 Bottom mounting with front flange 轴向直接安装 Back mounting 轴向带后边凸装 Back mounting with back flange 轴向带前边嵌装 Back mounting with front flange		7	- -代码	No c T Q Z ZT ZT ZQ	oding					
过程连接 Process connection M14×1.5 M20×1.5 G1/2G1/2 1/2'NPT 其他(注明)				M G 1	114× 120× 1/2G ./2′N ners(r	1.5 1/2 PT		1		
接液材质 Liquid material 铜 Copper 304SS 316SS 其他						3	u 04 16 her			
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他						Otl	1.0 1.6 2.5 ners(ı			
表壳填充液 Filling liquid for the gauge shell 硅油(低粘度) Silicone oil (low viscosity) 硅油(高粘度) Silicone oil (high viscosity) 甘油 Glycerol									- - I J	
附件可选Optional accessories阻尼器Damper散热器Radiator过压保护器Overvoltage protection device冷凝管Siphon tube其他Others							7	文 Fext d	ZN SR OP SP 字注问	

YM系列隔膜压力表

YM Series Diaphragm pressure gauge



工作原理

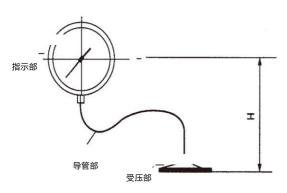
隔膜压力表由各种通用型压力仪表和不同结构的隔膜隔 离器组成一个封闭系统,内充密封液。当被测介质的压力作 用于隔膜时,则隔膜产生变形,压缩封闭系统中的密封液。 由于密封液的固有性质,使压力仪表中的弹性元件产生相应 的弹性变形--位移,经指示装置显示压力值。当隔膜的刚度 足够小时,则压力仪表指示的压力就近于被测介质的压力值。

为了扩大各种通用型压力仪表的使用范围,能适用于测 量强腐蚀、高温、高粘度、易结晶、易凝固和有固体浮游物 介质的压力,以及对某些测量介质不能直接进入通用型压力 仪表内和便于清洗防止沉淀物质积聚的场合的压力检测时, 必须采用由隔膜隔离器与通用型压力仪表组成一个系统的隔

隔膜表主要用于石油、化工、制药、食品、轻纺等工业 部门生产过程中的压力检测。

隔膜表的温度特性

尤其对于带软连接管的隔膜表,由于隔膜受压部与通用型 压力表安装位置不在同一水平面上,会产生液位差的影 响量△P。在精确测量时更应注意。



△P=d.h d-密封液的比重; H-液位差

△P=d.h d-specific wight of the sealing liquid;H-liquid level difference



Working principle

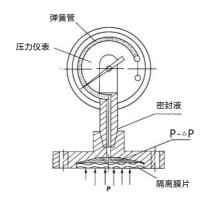
Diaphragm pressure gauge forms one closes system by different types of general pressure gauges and different structures of diaphragm isolators, filled with sealing liquid inside. When the pressure of the measured medium acts on the diaphragm, the diaphragm will produce deformation and compress the sealing liquid. Due to the inherent nature of the sealing liquid, the elastic element in the pressure gauge produces relevant elastic deformation--displacement, and the pressure value is displayed through indication device. When the rigidity of the diaphragm is small enough, the pressure indicated by the pressure gauge is close to the pressure value of the measured medium.

In order to expand the operation range of the general pressure gauges, making them suitable to measure the pressure of medium of strong corrosion, high temperature, high viscosity, easy to crystallize, solidify and with solid suspended matters, and when some measurement medium can not enter directly the general pressure gauge and it is easy to clean and prevent the sediment from gathering, one systematic diaphragm meter consisting of diaphragm isolator and general pressure gauge must be adopted.

The diaphragm meters are mainly applied to pressure check during production of industrial departments like petroleum, chemistry, pharmacy, food, light textile.

Temperature characteristics of diaphragm temperature gauge

Particularly for the diaphragm meter with soft connection pipe, since the installation position of the pressed part of the diaphragm and the general pressure gauge is not at the same horizontal plane, the influence amount $\triangle P$ of the liquid level difference will be produced, which shall be noticed during accurate measuring.



隔膜表的耐蚀性

隔膜表的耐蚀性可通过合适的选择与测量介质接触部分 的隔膜,法兰及密封垫圈的材料来保证。

隔膜材料: 0Cr17Ni12Mo2(316); 蒙乃尔合金 (Cu30 Ni70); 哈氏合金(H276C); 钽(Ta)及氟塑料F4)。

法兰材料:不锈钢0Cr17Ni12Mo2(316);不锈钢内衬 氟塑料(316+F4)。

密封垫圈材料:丁腈橡胶;氟橡胶;硅橡胶及氟塑料。

法兰的选择

现根据GB(国标)、HGJ(化工部)、DIN(德标)、JIS(日标)、ANSI(美标)等法兰标准以及国内实际使用情况编制成常用法兰系列标准,供用户选用。也可以接受用户其他规格的特殊订货。

密封液的选择

为保证隔膜表使用可靠性和安全性,应根据不同用途选择合适的密封液。

Corrosion resistance of diaphragm

The corrosion resistance of the diaphragm meter can be guaranteed by proper selection of the material of the diaphragm contacting the

Diaphragm material: 0Cr17Ni12Mo2(316); Monel alloy (Cu30Ni70); Hastelloy (H276C); tantalum (Ta) and fluorine plastic (F4).measurement medium, flange and sealing washer. Flange material: stainless steel 0Cr17Ni12Mo2(316); stainless steel inner lining fluorine plastic (316+F4).

Material of sealing washer: nitrile rubber; fluorine rubber; silicon rubber and fluorine plastic.

Selection of flange

Normal flange series standards are prepared according to the flange standards like GB (Chinese), HGJ (ministry of chemical industry), JIS (Japanese), ANSI (American) and actual operation situation in China. The customer can select the flange. Special order of other specifications from the customers are also accepted.

Selection of sealing liquid

In order to ensure the reliability and safety of the use of diaphragm meter, proper sealing liquid shall be selected depending on different use.

密封液 Sealing Liquid	受压部温度范围 Temperature Range of the Pressed Part	比重g/cm3 Specific Weight g/cm3	体膨胀系数1/℃ Expansion Coefficient of the Body 1/℃	用途 Use
高粘度硅油 High-viscosity silicon oil	-10~200℃	1.07	0.95x10-3	高温用 High temperature use
低粘度硅油 Low-viscosity silicon oil			1.08x10-3	一般用 General use
甘油水溶液 Glycerin water solution			0.61X10-3	食品用 For food
植物油 Vegetable oil −5~100℃ 0		0.93	1.03x10-3	食品用 For food
氟油 Fluorine oil	-30~150℃	1.93	0.75x10-3	氢、氧 Hydrogen, oxygen

隔离膜片材质

Isolated diaphragm material

类型 Type	材 质 Material
隔离膜片 Isolated diaphragm	316LSS、316LSS+PTFE,哈氏合金HC-276,钽Ta,钛Ti,蒙乃尔Monel400

关于隔离体膜片部分耐腐蚀材料的选择

Selection of corrosion resistant materials for diaphragm plate of the isolated body

可以使用 Usable X 不可以使用 Unusable

腐蚀介质	腐蚀材料 Medium of erosion							
Corroding Medium	316L SS	PTFE	Hastelloy.c-276	Та	Monel 400			
硫酸 Sulphuric acid	A			*				
硝酸 Nitricacid				*	X			
盐酸 Hydrochloric acid	×			*	×			
磷酸 Phosphoric acid				*				
醋酸 Acetic acid			*	*				
烧碱 Caustic soda	*		*	A	*			
纯碱 Medium of erosion	*			*	*			
小苏打 Sodium bicarbonate	*		*	*	*			
氯气 Chlorine gas	干:■ 湿:× Dried Wet			*	干:■ 湿:× Dried Wet			
溴 Bromine	干:×湿:▲ Dried Wet		*	*	干:×湿:▲ Dried Wet			
氨水 Ammonia hydroxide			*	×				
海水 Seawater			*	*	*			

YM Series Diaphragm pressure gauge

压力表YM Pressure gauge YM		
隔膜形式 Diaphragm type隔膜法兰 Diaphragm threadF隔膜螺纹 Diaphragm threadL		
压力表类别 Pressure gauge category 不耐震 Pressure gauge category 无(可省略)Null(omitte 耐震 Vibration proof N	ed)	
连接符号 Connection symbol	-	
表盘直径 Diameter of the gauge disc φ60 φ100 φ150	60 100 150	
与隔膜体安装方式 Installation mode with the diaphragm 径向直接安装 Bottom mounting 轴向直接安装 Back mounting	无代码 No coding Z	
过程连接 Process connection 法兰连接 Flange connection 螺纹连接 Thread connection	文字说明 Text description 文字说明 Text description	
膜片材质 Diaphragm material 316L SS H.C合金 H.C alloy Ta Ti 蒙乃尔 Monel 其他 Others	316 H.C Ta Ti 蒙乃尔 Monel 文字说明 Text description	
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他 Others	1.0 1.6 2.5 Others(5
表壳填充液 Filling liquid for the gauge shell 硅油(低粘度) Silicone oil (low viscosity) 硅油(高粘度) Silicone oil (high viscosity) 甘油 Glycerol		H I J
附件可选Optional accessories阻尼器Damper散热器Radiator过压保护器Overvoltage protection device冷凝管Siphon tube其他Others	文字注	ZN SR OP SP È明 Text description

卫生型系列隔膜压力表

Sanitary Diaphragm Pressure Gauges

产品简介

介质不与仪表测量系统相接触,隔膜密封不会产生死角 或无法排空的区域,适用于卫生级系统。

主要技术指标

■ YB-100/MC、YB-150/MC仪表外径

■外壳、内机全不锈钢材质

■精度:1%,1.6%



YB-100/MC

管线螺纹连接

可提供欧洲及各类加工标准 注:详细标准尺寸请在订货时进行确认

Made to Europe standard and vaious standards DIN:SMS,IDF:APV-RJT

Note: When ordering, please specify detailed standard and dimensions.



YTP-100HF7

Product introduction

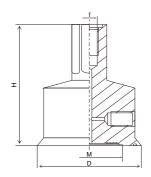
Media dose not direcly contact instrumant's measuring system, diaphragm seal does not raise a dead corner or area where residue may be left, universally used for sanitary applications.

Main technical index

■ YB-100/MC、YB-150/MC Outside diameter

■ Stainless steel case and internals

■ Accuracy: 1%; 1.6%



DN	D(mm)	H(mm)	f	M
1"	42	48	3/8-24UNF2B	19
1.5"	50.5	48	3/8-24UNF2B	30
2"	64	48	3/8-24UNF2B	36
2.5"	77.5	48	3/8-24UNF2B	47

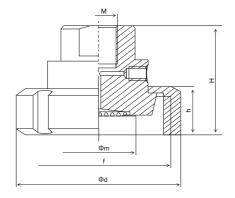
Threaded process connection

DIN 11851

	DN	GAMPO SCALA RANGE	Н	h	d	m	f (DIN405)
	25	0/6-40BAR	44	21	63	20.5	Rd52×1/6
	32	0/4-40BAR	46	21	70	29	Rd58×1/6
ſ	40	0/2.5-40BAR	46	21	78	36	Rd65×1/6
Γ	50	0/1.6-40BAR	47	22	82	50	Rd78×1/6

SMS 681

DN	GAMPO SCALA RANGE	Н	h	d	m	f (DIN405)
1"1/2	0/4-40BAR	49.5	25	74	29	Rd60×1/6
2"	0/2.5-40BAR	50.5	26	84	36	Rd70×1/6



YE系列膜盒压力表

Diaphragm capsule pressure gauge of YE series





工作原理

膜盒压力表采用膜盒作为测量微小压力的敏感元件。 测 量对铜合金不起腐蚀作用、 无爆炸危险气体的微压和负压, 广泛应用于钴炉通风、气体管道、燃烧装置等及其它类似 设备上。

Working principle

Diaphragm capsule pressure gauge uses the diaphragm capsule as the sensitive element for measuring micro pressure. It is used to measure the micro pressure and negative pressure which can not exert effectiveness on the corrosion, non explosive dangerous gas. It is widely used in the ventilation, gas pipeline, combustion device and other similar equipment.

主要技术指标

型号、结构型式、标度范围及精确度等级

Main technical index

Mode, structural type, scale range and accuracy

型号 Mode		精确度等级			
	正压		Accuracy Class		
	0~1.6	-1.6~0	-0.8~+0.8		
YE-60	0~2.5 2.5~0 -1.2~+1.2				
YE-60 YE-100	0~4	-4~0	-2~+2	l	
YE-150	0~6	-6~0	-3~+3	2.5	
YEB-60	0~10 -10~0 -5~+5		-5~+5	2.5	
YEB-100 YEB-150	0~16	-16~0	-8~+8		
1 EB-150	0~25	5 -25~0 -12~+12			
	0~40	-40~0	-20~+20		

YE系列隔膜压力表选型

压力表YE Pressure gauge YE		
壳体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper	ing	
连接符号 Connection symbol	-	
表盘直径 Diameter of the gauge disc		
φ60 φ100	60	
φ150 (160)	100 150 (160)	
安装方式 Installation method	,	
径向直接安装 Bottom mounting		
径向带后边凸装 Bottom mounting with back flange	无代码 No coding T	
径向带前边嵌装 Bottom mounting with front flange	Q	
轴向直接安装 Back mounting 轴向带后边凸装 Back mounting with back flange	Z	
轴向带前边嵌装 Back mounting with front flange	ZT ZQ	
过程连接 Process connection		
过程连接 Process connection M14×1.5	M14×1.5	
M20×1.5	M20×1.5	
G1/2	G1/2	
1/2'NPT	1/2'NPT	
其他 Others	文字说明 Text desc	ription
接液材质 Liquid material		
铜 Copper		Cu
304SS		304
316SS		316
其他		Other
精度等级 Precision grade		
1.0 Grade		1.0
1.6 Grade 2.5 Grade		1.6 2.5
z.b Grade 其他 Others		Others(note)
大回 Others		Others(note)
附件可选 Optional accessories		
阻尼器 Damper		ZN
散热器 Radiator		SR
过压保护器 Overvoltage protection device 冷凝管 Siphon tube		OP SP
冷凝管 Siphon tube 其他 Others		文字注明 Text description
大ip Others		人于江州 TOXEGESUTIPE

YP系列膜片压力表

Diaphragm pressure gauge of YP series





结构原理

仪表由测量系统(包括接头、法兰、膜片)、传动机构、 指示装置和外壳组成。仪表为密封型防溅结构,能有效地保 护内部机件免受环境影响和污秽侵入。

在被测介质的压力作用下,仪表的弹性元件(膜片)产生 与压力大小成正比的弹性变形——位移,借助连杆经传动机 构放大,由指示装置指示出被测压力值。

膜片压力表适用于测量有一定腐蚀性、粘稠介质和非结 晶或非凝固的各种流体介质的压力或负压。

可根据测量介质对耐腐蚀性能的不同要求而选用不同材 料的膜片。

外壳使用不锈钢材料的仪表,可在工作环境较恶劣的情 况下使用。

Structure principle

The instrument consists of measuring system (including joint, flange and diaphragm), drive system, indication device and shell. The instrument is the sealing type with splash-proof structure which is able to protect effectively the internal parts from environmental influence and filth intrusion.

With the pressure action of the measured medium the elastic element of the instrument (diaphragm) produces the elastic deformation directly proportionate to the pressure size-displacement, which is magnified by drive mechanism with the help of connection rod and then the

Diaphragm pressure gauge is applicable to measure the pressure or negative pressure of various kinds of fluid medium with certain corrosivity, viscous medium and amorphous or noncoagulated medium.

Diaphragm of different materials can be selected depending on the different requirements of the measurement medium for corrosion resistance performance.

The instrument whose shell is made from stainless steel can be used in harsh working environment.

主要技术指标

Main technical index

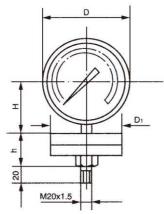
エダスパリロか	wani technical maex
仪表类型	普通型、耐震型(充油)
Instrument type	General type,Vibration-proof type(oil)
指示直径 Indicator diameter	φ100、φ150
精度	1.6级、2.5级
Accuracy	1.6、2.5
测量范围	正压0~4KPa至0~100KPa
Measuring range	Positive pressure 0~4KPa to 0~100KPa
膜片材质	负压-4~0KPa至-100~0KPa及任何相关正负压量程
Diaphragm material	Negative pressure -4~0KPa to -100~0KPa and any relevant
接头材质	304、316、喷涂PTFE
Joint material	304, 316, spraying PTFE
外壳材质 Shell material	304、316
防护等级 Protection temperature	304
环境温度	普通型:IP54 耐震型:IP65
Ambient temperature	General type: IP54 vibration proof: IP65
连接尺寸 Connection dimension	螺纹连接M20×1.5,法兰连接按标准,特殊连接需质询后在订货前注明 Common type: -40~70 vibration proof type: -20~60 c cM20 * 1.5 threaded connection, flange connection according to the standard, special connection to be questioned before ordering

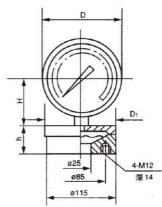
外形尺寸

YPF-¹⁰⁰ A/B 单位:mm



YPF-¹⁰⁰₁₅₀ B/F 单位:mm





	YPF-100A	YPF-100B	YPF-100B-F	YPF-150A	YPF-150B	YPF-150B-F
D	φ100	φ110	φ110	φ150	φ160	φ160
Н	66	66	66	91	91	91
h	32	32	36	32	32	36

YP系列膜片压力表选型

Type selection of diaphragm pressure gauge of YP series

	YP serie	es					
膜片压力表YP Pressure gauge YP							
耐震功能 Shock resistance function 不耐震 Pressure gauge category 耐震 Vibration proof	无(可省略)Null(omitted) N						
连接符号 Connection symbol		-					
表盘直径 Diameter of the gauge dis							
φ100 φ150		60 150					
过程连接 Process connection		100					
M20×1.5		M20×1.5					
法兰连接 Flange connection		兑明 Text desc					
其他 Others		兑明 Text desc	ription				
膜片材质 Diaphragm material 316L SS							
H.C合金 H.C alloy			16				
Ta			∖.С Га				
Ti			Ti				
蒙乃尔 Monel			Monel				
316喷四氟 316 Spraying PTFE 其他 Others		316+ 文字说明 Te	·PTFE xt descrin	otion			
表壳填充液 Filling liquid for the gau		2, 30,3, 10,					
硅油(低粘度) Silicone oil (low visco							
硅油(高粘度) Silicone oil (high visc	• ,			H			
甘油 Glycerol				j			
精度等级 Precision grade							
1.6 Grade					1.6		
2.5 Grade 其他 Others					2.5 thers(
					/11015((11016)	
附件可选 Optional accessories 阻尼器 Damper							
散热器 Radiator					ZN		
过压保护器 Overvoltage protection d	evice				SR OP		
冷凝管 Siphon tube					SP		
其他 Others			Z	文字注印	仴 Text	descri	ption

YTQ安全系列压力表

YTQ Safety Pattern Pressure Gauges

不锈钢坚固型安全压力表 (YTQ-160H,YTQ-100H,YTQ-63H)

All stainless steel solid frint safety pattern gauges

■精度:1%,1.6%

■ 隔板后释放装置,不锈钢安全构造外壳

■ 接液部分材质: SUS316 ■量程:-0.1~160MPa

■ 安全双层玻璃

■安装形式可选:径向,下轴向,轴向嵌装

■ Accuracy: 1%, 1.6%

■ Blow out back, stainless steel safety case design

■ Wetted part : SUS316 ■ Range: -0.1~160MPa ■ Laminates safety glass

■ Mounting options : Bottom connection; back connection flush mounting.



聚丙烯外壳安全型压力表 (YTQ-4½"S)

Polyropylene cass safety pattern gauges

■精度:1%,1.6% ■量程:-0.1~160MPa

■ 内机铜合金普通型或内机不锈钢防腐型可选

■ 具有安全隔板及卸压后盖坚固的仪表外壳

- Accuracy: 1%, 1.6% ■ Range: -0.1~160MPa
- Copper alloy internal standard, optional stanless steel internals corrosion-proof
- Rugged built case with solid baffle and blow out back



YTQ(F)-4½"ZS普通(防腐)轴向 Back connection standard(corosion-proof)



YTQ(F)-4%"普通(防腐)径向 Bottom connection standard(corosion-proof)

专用压力表

Special pressure gauge



氧气压力表 Oxygen pressure gauge



氢气压力表 Hydrogen pressure gauge



氨压力表 Ammonia pressure gauge

主要技术指标

Main technical index

名称 Name		氧气压力表 n pressure			氢气压力表 en pressur		氨压力表 Ammonia pressure gauge				
公称直径 Nominal direct	φ60	φ100	φ150	φ60	φ100	φ150	φ60	φ100	φ150		
精确度等级 Precision class	±2.5%	±1.0%	±1.6%	±2.5%	±1.6%	±1.6%	±2.5%	±1.6%	±1.6%		
连接螺纹 Connection thread	M14×1.5	M20×1.5	M20×1.5M	M14×1.5	M20×1.5M	M20×1.5M	M14×1.5	M20×1.5	M20×1.5		
类型 Category		径向后边 Bottom back mounting 径向前边 Bottom front mounting 轴向直接安装 Back mounting 轴向前带边安装 Back mounting with front flange 轴向前边嵌装 Back mounting with front flang									
测量范围 Measuring range	-(0~0.06, 0~0.1, 0~0.16, 0~0.25, 0~0.4, 0~0.6, 0~1, 0~1.6, 0~2.5, -0.1~0, -0.1~0.06, -0.1~0.15, -0.1~0.3, -0.1~0.5, -0.1~0.9, -0.1~1.5, -0.1~2.4, 0~4, 0~6, 0~10, 0~16, 0~25, 0~40, 0~60									

Selection of special pressure gauge

专用压力表选型

专用压力表Y Pressure gauge Y								
类型 Category 氨用 Used for ammonia 氧用 Used for oxygen 氢气 Used for hydrogen	A O H							
耐震功能 Shock resistance function 不耐震 Pressure gauge category 耐震 Vibration proof		ì略)Null(omitted) N						
连接符号 Connection symbol			-					
表盘直径 Diameter of the gauge dis φ60 φ100 φ150	sc .		60 100 150					
安装方式 Installation method 径向直接安装 Bottom mounting 径向带后边凸装 Bottom mounting wir 径向带前边嵌装 Bottom mounting wir 轴向直接安装 Back mounting 轴向带后边凸装 Back mounting with 轴向带前边嵌装 Back mounting with	th front fla back flang	inge ge	无代	码 No co T Q Z ZT ZQ	oding			
过程连接 Process connection M14×1.5 M20×1.5 G1/2 1/2'NPT 其他 Others			文字说明	M14×1.5 M20×1.5 G1/2 1/2'NPT Text de	5	า		
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他 Others					,	1 2	.0 .6 .5 s(note)	
附件可选 Optional accessories 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection of 冷凝管 Siphon tube 其他 Others	evice				文字注	Z S O S :明 Te	R P	ption

注:专用压力表壳需特殊材质时,订货时请在型号后面注明。

Note: when the special pressure shell needs special materials, please specify behind the model when ordering.

Φ40(50)表盘压力表

Diameter pressure gauge of small outer







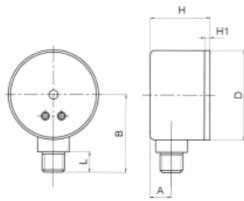
产品特性

径向或轴向直接安装结构 有机玻璃压紧式罩壳设计 铁喷塑外壳,铜内机 M10×1螺纹连接 2.5%精度等级 测量范围0-0.1MPa至0-40MPa 仪表型号标示 40径向 Y-40C

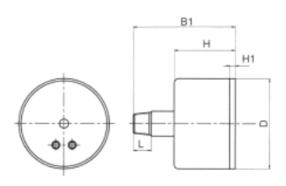
Product characteristics

Axial direct mounting structure Design of compact enclosure for organic glass Iron spray shell, copper machine M10 * 1 thread connection 2.5% accuracy level Measurement range 0-0.1MPa to 0-40MPa Instrument type designation 40 radial Y-40C

具体尺寸



Specific dimension



小外径压力表选型

Type selection of pressure gauge of small diameter

压力表Y Pressure gauge Y	
壳体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper	g
压力表类别 Pressure gauge type 耐震 Shock-resistance	N
连接符号 Connection symbol	-
表盘直径 Diameter of the gauge disc	,
φ40	40
φ50	50
其他 Others	其他 Others
安装方式 Installation method	
径向直接安装 Bottom mounting	
径向带后边凸装 Bottom mounting with back flange	无代码 No coding
径向带前边嵌装 Bottom mounting with front flange	T
轴向直接安装 Back mounting	Q Z
轴向带后边凸装 Back mounting with back flange	ZT
轴向带前边嵌装 Back mounting with front flange	ZQ
过程连接 Process connection	
M14×1.5	M14×1.5
其他 Others	文字说明 Text description
精度等级 Precision grade	
2.5 Grade	2.5
其他 Others	Others(note)
附件可选 Optional accessories	
関内 Damper Uptional accessories	
関心器 Ballipel 散热器 Radiator	ZN
过压保护器 Overvoltage protection device	SR OP
EIENI DE OVERVOITAGE PROTECTION DE VICE	OP SP
冷凝管 Siphon tube	

Φ200,250表盘压力表

Pressure gauge with large outer diameter





产品简介

外径200、250mm一般压力表适合于在高大体积的设备 上对无爆炸、不结晶及对铜合金不起腐蚀作用的液体或气体 压力进行测量。或选用券不锈钢材质。

技术参数

执行标准: GB/T 1226-2001

精度等级: 1.6%

测量范围: 0-0.4MPa~0-10MPa

波登管 / 接头:磷青铜波登管与黄铜接头锡焊接

(可选全不锈钢材质) 仪表外壳:不锈钢/碳钢

仪表安装: 径向结构, M20×1.5 螺纹直接安装(其

他特殊标准可选)

表盘:白色铝制,黑色刻线

指针:铝制,黑色

表玻璃:普通玻璃,钢化玻璃(可选) 正常工作环境温度: -40℃~+70℃

Product introduction

He general pressure gauge with 200, 250mm outer diameter is suitable for measuring the pressure of the liquid or gas of non-explosion and non-crystal and non-erosive to copper on the high dimensional devices.

Technical parameter

Executive Standard: GB/T 1226-2001

Precision grade: 1.6%

Measurement range: 0-0.4MPa~0-10MPa

Bourdon tube / socket: phosphor bronze Bourdon tube and brass solder joints (whole stainless steel material is also optional)

Instrument shell: Stainless steel/carbon steel

Instrument installation: radial structure, M20 * 1.5 screw thread

direct mounting (other special standard optional)
Gauge disc: white aluminum, black line

Pointer: Aluminum, black

Gauge glass: Common glass,Tempered glass (optional) Normal working environment temperature: -40 $~\sim$ +70 $^{\circ}\mathrm{C}$

几何尺寸





Geometry dimension





大外径压力表选型

Type selection of pressure gauge of large outer diameter

N - 200 250 无代码 No co 字说明 Text de			
- 200 250 无代码 No co			
250 无代码 No co		7	
250 无代码 No co		٦	
		_	
	M20×1.5] Text description	1	
	1. Others	-	
		H I J	
		ZN SR OP SP	
_		 -	Others(note) H I J ZN SR OP

一般电接点压力表

Pressure gauge of general electric contacting point





产品简介

电接点压力表适用于测量对铜合金无腐蚀、无爆炸危险、 非结晶的各种液体、气体等介质的压力。

产品分类

电接点压力表品种可分为直接作用式和磁助直接作用式, 具体电气参数如下表:

Product introduction

The electric contacting point pressure gauge is suitable for measuring the pressure of the medium such as the liquid and gas with no corrosion to copper alloy, no explosion risk and non-

Product classification

The electric contact pressure gauge can be divided into direct action type and direct action type and the specific electric parameters are as follows:

接点形式 Contacting pint type	额定功率 Rated power	最高工作电压 Maximum operating voltage	最大允许电流 Maximum allowable current
直接作用式 Direct acting type	10	380	0.7
磁助直接作用式 Direct acting type with magnetic field	30	380	1.0、3

执行标准:JB/T9273-1999 Executive standard: JB/T9273-1999

一般电接点压力表

Pressure gauge of general electric contacting point

压力表Y Pressure gauge Y	
电接点形式 Type of electric contacting point 直接作用式 Direct acting type 磁助直接作用式 Direct acting type with magnetic field	X XC
压力表类别 Pressure gauge type 耐震 Shock-resistance	N
连接符号 Connection symbol	-
表盘直径 Diameter of the gauge disc φ60 φ100 φ150 其他 Others	φ60 φ100 φ150 其他 Others
安装方式 Installation method 径向直接安装 Bottom mounting 其他 Others	无代码 No coding 文字说明 Text description
过程连接 Process connection M14×1.5 M20×1.5 NPT 1/2 其他 Others	M14×1.5 M20×1.5 NPT 1/2 文字说明 Text description
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他 Others	1.0 1.6 2.5 Others(note)
附件可选 Optional accessories 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection device 冷凝管 Siphon tube 其他 Others	ZN SR OP SP 文字注明 Text description

不锈钢耐震电接点压力表

Stainless steel vibration-proof pressure gauge with electric contacting point





应用

主要测压元件及仪表外壳均采用不锈钢材料设计,适于 测量腐蚀性较强的气体及液体的压力。通过对表体内充油, 利用液体阻尼确保无振动显示,适用于测量介质强烈脉动及 环境震动较大的场所。

与隔离体的配接

以上各类型的仪表均可与本公司生产的使用不同材料膜 片的隔离体配接,组成隔膜式电接点压力表,适用于测量多 种腐蚀性较强及粘度大易结晶介质的压力。

Application

The main pressure measuring element and the instrument shell are all designed with stainless steel material, which is suitable for measuring the pressure of gas and liquid with strong corrosion. The body is filled with oil and liquid damping is used to ensure no vibration.It is suitable for measuring the medium with strong pulsation and medium in vibrations place.

Matching with isolated body

The above various types of instruments can all be connected to isolated bodies using the different materials and diaphragms to form a electric contacting point pressure gauge of diaphragm type. It is suitable for measuring the medium of a variety kinds with strong corrosive and adhesive properties.

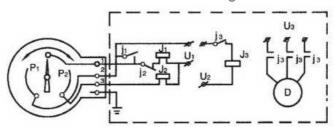
主要技术参数

Main technical parameters

测量范围	最小:0~0.1MPa 最大:0~100 Mpa Minimum: 0~0.1MPa, Maximum: 0~100 Mpa
Measuring range	负压范围:-0.1 ~2.4MPa Negative pressure range: -0.1 ~2.4MPa
指示精度	φ60 : 2.5% φ100/φ150:1.6% (1.0%可选)
Indication precision	φ60 : 2.5% φ100/φ150:1.6% (1.0% optional)
最高工作电压 Maximum operating voltage	AC380V或DC220V
最大工作电流 Maximum operating current	3A
防护等级	标准不充油型:IP54;充油型:IP65
Protection level	Standard non-oil filling type: IP54; oil filling type: IP65
仪表玻璃	普通玻璃、安全玻璃
Instrument glass	Ordinary glass, safety glass

电气线路连接示意图

The connection diagram of the electric wiring



不锈钢耐震压力表选型

The selection of stainless steel vibration proof pressure gauge

		01001	p. 0.		90	9						
压力表Y Pressure gauge Y												
电接点形式 Type of electric contacting point 直接作用式 Direct acting type 磁助直接作用式 Direct acting type with magnetic field	X XC				'							
壳体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper 无代 不锈钢+不锈钢 Stainless steel + stainless steel	码 No (B	coding										
压力表类别 Pressure gauge type 耐震 Shock-resistance 不耐震 Non-shock resistance		,	N									
配隔膜体 With diaphragm body 不配隔膜体 Without diaphragm body 隔膜螺纹 Diaphragm thread 隔膜法兰 Diaphragm flange		弋码 No 弋码 No M M	o cod L									
连接符号 Connection symbol					-							
表盘直径 Diameter of the gauge disc φ60 φ100 φ150 其他 Others				φ	060 100 150 Other	rs						
安装方式 Installation method 径向直接安装 Bottom mounting 其他 Others				马 No Text			tion					
过程连接 Process connection 法兰连接 Flange connection 螺纹连接 Thread connection				字说明 字说明								
膜片材质 Diaphragm material 316L SS H.C合金 H.C alloy Ta Ti 蒙乃尔 Monel 316喷四氟 316 Spraying PTFE 其他 Others				Ż	字说	影乃忽 316	316 H.C Ta Ti 汀 Mo +PTF ext de	E	otion			
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他 Others								Othe	1.0 1.6 2.5 ers(n	ote)		
表壳填充液 Filling liquid for the gauge shell 硅油(低粘度) Silicone oil (low viscosity) 硅油(高粘度) Silicone oil (high viscosity) 甘油 Glycerol										H I J		
附件可选Optional accessories阻尼器Damper散热器Radiator过压保护器Overvoltage protection device冷凝管Siphon tube其他Others							Ź	(字注	(ZN SR OP SP ext de	escrip	otion

注:配隔膜体型时,壳体和元件材质必须为不锈钢。

Note: when equipping the diaphragm model, the shell and components must be made of stainless steel.

氨专用电接点压力表

Specialized electric contacting point pressure gauge for Ammonia



产品简介

氨专用电接点压力表采用弹簧管作为测压敏感元件, 主 要用于氨气压力的测量。 并通过仪表指针的触点与设定指针 的触点相接通(断开)控制系统中电路的开关,以达到自动 控制和发报警信号的目的。本仪表可与各类膜片隔离器相连 接,制成隔膜电接点压力表,用于测量腐蚀性强、粘度大、 易结晶介质的压力。

主要技术参数

执行标准:JB/T9272-1999

测量范围:最小:0~0.1MPa 最大:0~100 MPa

负压范围:-0.1~2.4MPa

指示精度: ±1.6% 防护等级:IP54

最高工作电压: AC380V或DC220V

最大电流:3A

环境温度:-40~+70℃

环境影响:使用温度偏离 + 25℃时,其设定点误差变化不大

于0.6%/10℃

Product introduction

The specialized pressure gauge with electric contacting point for ammonia uses the spring as the pressure measuring element, which is mainly used in the measurement of ammonia pressure. The switch of the circuit in the control system is switched on by the contact point of the instrument pointer and by setting up the pointer so as to achieve the goal of automatic control and alarm signal. This instrument can be connected with all kinds of diaphragms separator to make the diaphragm electric contact pressure gauge for measuring the pressure of material with corrosion resistance, high viscosity and crystal.

Main technical parameters

Execution standard: JB/T9272-1999

Measurement range: minimum: 0~0.1MPa maximum: 0~100

MPa negative pressure range: -0.1 ~2.4MPa

Indication accuracy: + 1.6% Protection level: Ip54

Maximum operating voltage: AC380V or DC220V

Maximum current: 3A

Dimension

M20×1.5

Ambient temperature: -40~+70 °C

Environmental impact: the usage temperature is deviated to +

 25°C , the fixed point error is not greater than $0.6\%/10^{\circ}\text{C}$

外形尺寸

170

氨专用电接点压力表选型

Type selection of electric contacting points pressure gauge for ammonia

压力表Y Pressure gauge Y								
电接点形式 Type of electric contacting point 直接作用式 Direct acting type 磁助直接作用式 Direct acting type with magnetic field	X							
压力表类别 Pressure gauge type 耐震 Shock-resistance 不耐震 Non-shock resistance		N						
连接符号 Connection symbol			-					
表盘直径 Diameter of the gauge disc φ60 φ100 φ150 其他 Others			φ1 φ1	50 00 50 Others				
安装方式 Installation method 径向直接安装 Bottom mounting 其他 Others				coding t descri			1	
过程连接 Process connection M14×1.5 M20×1.5 其他 Others			文字		4×1.5 0×1.5 xt desc	ription		
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他 Others						1.0 1.6 2.5 Others(i	
附件可选 Optional accessories 无附件 No accessory 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection device 冷凝管 Siphon tube 其他 Others						(ZN SR OP SP	

注:对壳体有特殊要求的,订货前请注明。

Note: If you have special requirements for the shell, please specify it before placing an odor.

微压膜片电接点压力表

Electric contacting point pressure gauge of micro

pressure diagram



产品简介

膜片电接点压力表采用膜片作为测压敏感元件,并可根据不同的测量介质选用不同材料的膜片。本仪表主要用于工业过程中对气体、液体压力微小压力的测量,尤其适用于腐蚀性粘稠介质(非凝固、非结晶)的微小压力测量,并通过仪表指针的触点与设定指针的触点相接通(断开)控制系统中电路的开关,以达到自动控制和自动报警功能。

产品特性

1.测量压力最低可达4KPa;

主要技术参数

- 2.可根据不同测量介质的防腐要求可选择多种不同的膜片;
- 3.仪表可制作成充油耐震型应用于工作环境有震动的场所。

Product introduction

Diaphragm electric contacting point pressure gauge uses the diaphragm as a pressure sensitive components and different materials of the diaphragm can be used according to different measurement media. This instrument is mainly used for measuring pressure of gas or liquid with micro pressure in industrial processes, especially for corrosive viscous medium (non solidification, non crystalline) micro pressure measurement. The circuit in the system is controlled through the contacting pint and setting the pointer connection(disconnection) so as to achieve automatic control and automatic alarm function

Product characteristics

- 1.Minimum pressure of measurement is as low as 4KPa
- 2.A variety of different diaphragm can be used according to the requirements of erosion-resistance of different media
- 3.The gauge can be made into oil-filling type used in work environment with vibration.

Main technical parameters

エメルバックス	man to other parameters
仪表类型	普通型、耐震型(充油)
Instrument type	General type, vibration proof type (oil)
指示直径 Indicator diameter	φ100、φ160
精度 Precision	1.6 Grade
接点材质 Material of contacting point	≥110V银镍合金,≤36V黄金 ≥110V Silver nickel alloy, ≤36V gold
测量范围 Measuring range	正压0~4KPa至0~100KPa Positive pressure 0~4KPa to 0~100KPa 负压-4~0KPa至-100~0KPa及任何相关正负压量程 Negative pressure -4~0KPa to -100~0KPa and any relevant positive and negative pressure range
膜片材质 Diaphragm material	304、316、喷涂PTFE 304, 316, spraying PTFE
接头材质 Joint material	304、316
外壳材质 Shell material	304
防护等级 Protection level	普通型:IP54 耐震型:IP65 Common type: IP54 vibration proof: Ip65
最高工作电压 Maximum operating voltage	380VAC或220VDC 380VAC or 220VDC
最大电流 Maximum current	1A
环境温度 Ambient temperature	普通型:-40~ + 70℃ 耐震型:-20~ + 60℃ Common type: -40~70℃ vibration proof type: -20~60 ℃
连接尺寸 Connection dimension	螺纹连接M20×1.5,法兰连接按标准,特殊连接需质询后在订货前注明 Threaded connection M20 * 1.5, flange connection according to the standard, for the special connection, it must be specified before ordering

微压膜片压力表 YPXC Electric contacting point pressure gauge of micro pressure diagram YPXC								
压力表类别 Pressure gauge type 耐震 Shock-resistance 无代 不耐震 Non-shock resistance	码 No Coding N							
连接符号 Connection symbol		-						
表盘直径 Diameter of the gauge disc φ100 φ160			φ100 φ160					
过程连接 Process connection M20×1.5 法兰连接 Flange connection 其他 Others	-	字说明	120×1.5 Text des Text des					
膜片材质 Diaphragm material 316L SS H.C合金 H.C alloy Ta Ti 蒙乃尔 Monel			蒙乃:	316 H.C Ta Ti 尔 Mone	I			
316喷四氟 316 Spraying PTFE 其他 Others		文:	316 字说明 Te	+PTFE ext desc	ription			
精度等级 Precision grade 1.6 Grade 其他 Others					1. Others	-		
表壳填充液 Filling liquid for the gauge shell 硅油(低粘度) Silicone oil (low viscosity) 硅油(高粘度) Silicone oil (high viscosity) 甘油 Glycerol							H I J	
附件可选 Optional accessories 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection device 冷凝管 Siphon tube							ZN SR OP SP	
其他 Others					文:	字注明1	Text des	cription

YT系列防爆电接点压力表

Explosion-proof electric contacting point pressure gauge of **YT** series





用途

本仪表用在环境有爆炸性混合物的危险场所,用来测量 对铜及铜合金,普通碳钢等无腐蚀性的非结晶,非凝固介质 的压力(负压)。

通过接点装置与具有相应防爆性能的电气件配套使用。 对被测介质压力,有自动控制、报警、信号远传等多种功能。

本仪表系我公司按国家标准:GB/T1226-2001《一般 压力表》国家标准;GB3836.1-2000《爆炸性气体环境用电 气设备第一部分:通用要求》;GB3836.2-2000《爆炸气体 环境用电设备第9部分:隔爆型 "d" 》,产品标准:Q/CYJ 02.03-2011《防爆电接点压力表》规定设计、制造。

本仪表的防爆类别为隔爆型,其防爆标志ExdIIBT6Gb。

Usage

The instrument is used in the environment of dangerous places with explosive mixture and it is used to measure the pressure of copper and copper alloy, ordinary carbon steel and other material of non-corrosive, non-crystalline and non-solidification medium (negative pressure).

It is used along with the electric components with corresponding explosion-proof performance through the contact device. For the measured media pressure, it has the functions of automatic control, alarming and remote signal etc.

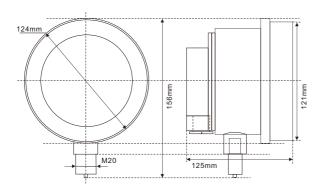
The gauges are designed and produced by our company according to the national standard: GB/T1226-2001 "general pressure gauge" national standard; GB3836. 1-2000 "electrical apparatus for explosive gas atmospheres Part 1: General Requirements"; GB3836. 2-2000 "electrical apparatus of explosive gas environment Part 9: Flameproof Enclosures " d "," product standard: Q/CYJ02.03-2011 "pressure gauge of explosion-proof electric contacting point" regulations.

Explosion proof class of this instrument is an explosion-proof type and its explosion-proof mark is: Ex d $\rm II\,BT6\,Gb.$

仪表名称 Name of instrument	测量范围 Measuring range	精度等级 Precision grade	接点参数 Contact points parameters	仪表重量 Instrume	
防爆电接点压力表 Explosion proof electric connection point pressure gauge	0 ~ 60 Mpa	1.6%	요ㅎ기 가능 것;	¢100	¢150
防爆电接点真空表 Explosion proof electric connection point vacuum gauge	-0.1~ 0 Mpa	1.6%	触头功率 Power of the contacting point 10伏安	¢100	¢150
防爆电接点压力真空表 Explosion proof electricconnection Point pressure vacuum gauge	-0.1~ 2.4Mpa	1.6%	10 Kva	¢100	¢150
磁助式防爆电接点压力表 Magnetic flux control electric contact points pressure gauge	0 ~ 60 Mpa -0.1~ 0 Mpa -0.1~ 2.4Mpa	1.6%	触头功率 Contacting point power 30伏安 30 Kva	¢100	¢150

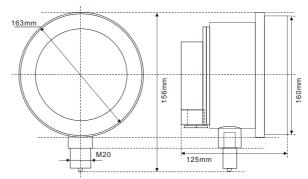
标度范围、精确度等级

Scale range and accuracy class



YTXB-150外型尺寸

YTXB-150 dimension

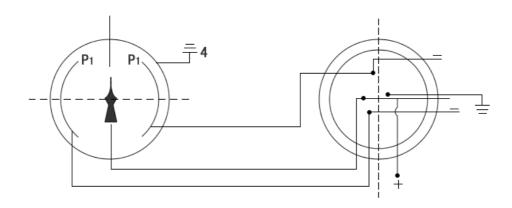


结构与工作原理

- 1、仪表外壳采用防爆结构,当其外壳内部的爆炸性混合物 因受到火花或电弧影响,发生爆炸时,不至引起外部爆炸性 混合物爆炸,从而达到防爆的目地。
- 2、仪表由弹簧管压力表和一个电接装置组成。仪表工作原 理: 当被测介质进入弹簧管, 使其产生的位移, 经过传动机 构放大后,指针将被测压力值,在刻度盘上指示出来,同时 指针带动电接装置的活动触头, 当压力达到预定值时, 活动 触头与设定针的触头接触,接通电路。
- 3、进线橡胶密封圈内径φ10mm,邵尔氏硬度45-55配用电 缆外径φ9.8mm, 500VBX型肆芯橡皮线(4XI)。
- 4、接线方式:

Structure and working principle

- 1. The instrument shell adopts flameproof structure, when the explosive mixture inside the casing face the explosion due to arc or spark effect, it will not cause external explosive of the mixture material, thus achieving the explosion-proof purpose.
- 2. The instrument is composed of a spring tube pressure gauge and an electric connection device. The meter work principle: when the measured medium enters into the spring, the displacement will be generated, transmitted after amplification, the pointer will be measured for the pressure value and indicated on the dial. At the same time, the pointer drives the movable contact point of electric contact device. When the pressure reaches a predetermined value, the movable contacting pointer will contact with the preset one.
- 3. The diameter of the rubber sealing ring is o10mm, shore hardness 45-55 with cable diameter: 9.8mm, 500VBX core shirr
- 4. Wiring method:



防爆电接点压力表选型

Type selection of explosion proof electric contacting point pressure gauge

	contacting point pressure gauge
防爆电接点压力表 YT Explosion proof electric contacting point pressure gauge YT	
电接点形式 Type of electric contacting point 直接作用式 Direct acting type 磁助直接作用式 Direct acting type with magnetic field	X X
売体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper 无价 不锈钢+不锈钢 Stainless steel + stainless steel	弋码 No coding B
压力表类别 Pressure gauge type 耐震 Shock-resistance	Coding
配隔膜体 With diaphragm body 不配隔膜体 Without diaphragm body 隔膜螺纹 Diaphragm thread 隔膜法兰 Diaphragm flange	无代码 No coding 无代码 No coding ML MF
连接符号 Connection symbol	-
表盘直径 Diameter of the gauge disc φ100 φ150 其他 Others	φ100 φ150 其他 Others
安装方式 Installation method 径向直接安装 Bottom mounting 其他 Others	无代码 No coding 文字说明 Text description
过程连接 Process connection 法兰连接 Flange connection 螺纹连接 Thread connection	文字说明 Text description 文字说明 Text description
膜片材质 Diaphragm material 316L SS H.C合金 H.C alloy Ta Ti 蒙乃尔 Monel 316喷四氟 316 Spraying PTFE 其他 Others	316 H.C Ta Ti 蒙乃尔 Monel 316+PTFE 文字说明 Text description
精度等级 Precision grade 1.0 Grade 1.6 Grade 2.5 Grade 其他 Others	1.0 1.6 2.5 文字说明 Text description
表壳填充液 Filling liquid for the gauge shell 硅油(低粘度) Silicone oil (low viscosity) 硅油(高粘度) Silicone oil (high viscosity) 甘油 Glycerol	H I J
附件可选 Optional accessories 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection device 冷凝管 Siphon tube 其他 Others	ZN SR OP SP 文字注明 Text description

精密压力表

Precision pressure gauge



产品简介

精密压力表由测压系统、传动机构、指示装置和外壳组 成。精密压力表的测压弹性元件经特殊工艺处理,使精密压 力表性能稳定可靠,与高精度的传动机构配套调试后,能确 保精确的指示精度。精密压力表主要用来校验工业用普通压 力表,精密压力表也可在工艺现场精确的测量对铜合金和合 金结构钢等材质无腐蚀性、非结晶、非凝固介质的压力。

精密压力表量程与精度的对比表

Product introduction

The precision pressure gauge is composed of a pressure measuring system, a transmission mechanism, an indicating device and a casing. The the elastic element of the precision pressure gauge is processed by special material so that the precision pressure gauge performance is stable and reliable. It can ensure the accuracy of the instructions after working along with the transmission mechanism. Precision pressure meter is mainly used to check the industrial normal pressure meter, precision pressure gauge can be used to precisely measure the medium pressure with no corrosion, no crystal and no solidification as copper alloy and alloy steel materials.

Table of comparison between the measuring range and precision of precision pressure gauge

	0.4	0.4级精度 precision			0.25级精度 precision(-		D.16级精度 precision (
测量范围 (Mpa) Measuring range	标尺分格数 Number of scales	最小分格值 (Mpa) The minimum scale number	允差值 (±) (Mpa) Permissible difference	标尺分格数 Number of scales	最小分格值 (Mpa) The minimum scale number	允差值 (±) (Mpa) Permissible difference	标尺分格数 Number of scales	最小分格值 (Mpa) The minimum scale number	允差值 (±) (Mpa) Permissible difference	工作介质 Working medium
-0.1~0	200	0.0005	0.0004	200	0.0005	0.00025	400	0.00025	0.00016	
0~0.04	200	0.0002	0.00016	200	0.0002	0.00010	-	-	-	
0~0.06	120	0.0005	0.00024	300	0.0002	0.00015	-	-	-	气体
0~0.1	200	0.0005	0.0004	300	0.0005	0.00025	400	0.00025	0.00016	Gas
0~0.16	160	0.001	0.00064	320	0.0005	0.0004	320	0.0005	0.000256	
0~0.25	125	0.002	0.001	250	0.001	0.000625	250	0.001	0.00040	
0~0.4	200	0.002	0.0016	200	0.002	0.001	400	0.001	0.00064	
0~0.6	120	0.005	0.0024	300	0.002	0.0015	300	0.002	0.00096	
0~1	200	0.005	0.004	200	0.005	0.0025	400	0.0025	0.0016	
0~1.6	160	0.01	0.0064	320	0.005	0.004	320	0.005	0.00256	
0~2.5	125	0.02	0.01	250	0.01	0.00625	250	0.01	0.004	
0~4	200	0.02	0.016	200	0.02	0.01	400	0.01	0.0064	液体、气体
0~6	120	0.05	0.024	300	0.02	0.015	300	0.02	0.0096	Liquid
0~10	200	0.05	0.04	200	0.05	0.025	400	0.025	0.016	and
0~16	160	0.1	0.064	320	0.05	0.04	320	0.05	0.0256	gas
0~25	125	0.2	0.1	250	0.1	0.0625	250	0.1	0.04	
0~40	20	0.2	0.16	200	0.2	0.1	400	0.1	0.064	
0~60	200	200	0.24	300	0.2	0.15	300	0.2	0.096	
0~80	160	160	0.32	160	0.5	0.2	-	1	-	
0~100	200	200	0.4	200	0.5	0.25	-	-	-	

		0.4级精度 precision	~~		D.25级精度 precision (0.16级精度 precision(
测量范围 (Mpa) Measuring range	标尺分格数 Number of scales	最小分格值 (Mpa) The minimum scale number		标尺分格数 Number of scales	最小分格值 (Mpa) The minimum scale number	允差值 (±) (Mpa) Permissible difference	标尺分格数 Number of scales	最小分格值 (Mpa) The minimum scale number	允差值 (±) (Mpa) Permissible difference	工作介质 Working medium
-0.1~0.06	160	0.001	0.00064	160	0.001	0.0004	-	-	-	气体
-0.1~0.15	125	0.002	0.001	125	0.002	0.000625	-	-	-	Gas
-0.1~0.3	200	0.002	0.0016	200	0.002	0.001	-	-	-	
-0.1~0.5	120	0.005	0.0024	120	0.005	0.0015	-	-	-	
-0.1~0.9	200	0.005	0.004	200	0.005	0.0025	-	-	-	
-0.1~1.5	160	0.01	0.0064	160	0.01	0.004	-	-	-	
-0.1~2.4	125	0.02	0.01	125	0.02	0.00625	-	-	-	
-0.04~0	200	0.0002	0.00016	200	0.0002	0.00010	-	-	-	
-0.06~0	120	0.0005	0.00024	120	0.0005	0.00015	-	-	-	液体、气体
-0.04~0.02	120	0.0005	0.00024	120	0.0005	0.00015	-	-	-	Liquid and
-0.04~0.06	200	0.0005	0.0004	200	0.0005	0.00025	-	-	-	gas
-0.04~0.12	160	0.001	0.00064	160	0.001	0.0004	-	-	-	
-0.04~0.21	125	0.002	0.001	125	0.002	0.000625	-	-	-	
-0.04~0.36	200	0.002	0.0016	200	0.002	0.001	-	-	-	
-0.06~0.1	160	0.001	0.00064	160	0.001	0.0004	-	-	-	
-0.06~0.19	125	0.002	0.001	125	0.002	0.000625	-	-	-	
-0.06~0.34	200	0.002	0.0016	200	0.002		0.0	001		

注:精密压力表选型注意事项

1.先确定精密压力表的测量范围参数;

2.再通过同一行中分列的各分辨率参数进行比对来选择精密压力表的 精度等级;

3.使用环境条件:-40~70℃,相对湿度不大于85%;

4.温度影响:使用温度偏离20±5℃时,不大于0.4%/10℃。

Note: matters to be concerned for the selection of precision pressure gauge

- 1 Determine the measurement range of precision pressure gauge;
- 2 Through the different parameters of resolution in the same row, the accuracy of precision pressure gauge is selected accordingly.
- 3 The usage environmental conditions: -40`70 °C, the relative humidity is not more than 85%.
- 4 Temperature effect: when the temperature is deviated from 20 ± 5 °C, it is not more than 0.4%/10°C.

主要技术指标

Main technical index

型 号	Y-150					
Model	YB-150					
精度等级 Precision grade	0.4、0.25	0.4、0.25				
测量范围MPa	0~0.1 , 0.16 , 0.25 , 0.4 , 0.6 , 1 , 1.	.6 , 2.5 , 4 , 6 ; 0~10 , 16 , 25 , 40				
Measuring range	0~10 , 16 , 25 , 40 , 60 , 100	; -0.1~0.06,0.15,0.3,0.5,0.9,1.5,2.4				

精密压力表选型

Type selection for precision pressure gauge

压力表Y Pressure gauge Y							
壳体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper 不锈钢+不锈钢 Stainless steel + stainless steel	无代码 No B	coding					
连接符号 Connection symbol			-				
表盘直径 Diameter of the gauge disc φ150				φ150			
过程连接 Process connection							
M14×1.5				M14×1.5			
M20×1.5				M20×1.5	5		
G1/2				G1/2			
1/2'NPT			<u> </u>	1/2'NPT			
其他 Others			又字识明] lext de:	scription		
精度等级 Precision grade							
0.4 Grade					0.4		
0.25 Grade					0.25		
其他 Others				文字说明	Text de	scription	
附件可选 Optional accessories							
阻尼器 Damper						ZN	
散热器 Radiator						ZN SR	
过压保护器 Overvoltage protection device						OP	
冷凝管 Siphon tube						SP	
其他 Others					文字注明	月 Text des	scription

YTZ电阻远传压力表

YTZ resistance transmission pressure gauge



结构原理

本仪表由一个普通弹簧管压力表和一组滑线电阻式发送 器等组成。

当被测介质的压力变化时,弹簧管管端产生位移,该位移通过传动机构使指针在度盘上指示相应的压力值。由于滑线电阻式发送器设置在传动机构的扇形齿轮上,当传动机构产生偏转时,即带动滑臂电刷作相应的滑行,使被测压力值的变化转换成电阻的变化而传输到二次仪表上进行显示。

电阻远传压力表适用于测量对铜及铜合金不起腐蚀作用的液体、蒸气和气体等介质的压力。同时能把被测压力以电量值传输到远距离的二次仪表,以实现集中检测和远距离控制。并能在现场就地指示,便于工艺检查。

Structure principle

This instrument consists of one common spring tube pressure gauge and one group of slide resistance type of transmitters. When the pressure of the medium being measured is changed, the spring tube end produces displacement and corresponding pressure value is indicated on the dial by the pointer for this displacement through drive mechanism. Since the slide resistance transmitter is set on the segment gear of the drive mechanism, when the drive mechanism deflects, i.e. drives the slide arm brush to make sliding, the change of pressure value being measured is converted to change of resistance and then

transmitted to secondary meter and displayed.

Resistance remote transmission pressure gauge is applicable to measure the medium pressure of liquid, steam and gas which is not corrosive to copper and copper alloy. It is also able to transmit the electric value to the remote secondary meter so as to realize centralized detection and remote control. It is also able to make local indication on site, making the process check convenient.

主要技术指标

精确度等级:1.6、2.5; 发送器起始电阻值:3~20Ω;

发送器满度电阻值:340~400Ω发送器接线端①②外加电

压不大于6V;

滑线电阻式发送器接线图

Main technical index

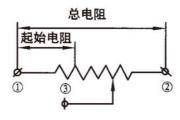
Accuracy class: 1.5

Start resistance value of the transmitter: $3~20\Omega$

Full-scale resistance value of transmitter: 340~400 Ω , the external voltage of wiring terminals ① ② of the transmitter shall

be no more than 6V.

Wiring diagram of slide resistance transmitter



测量范围

使用环境条件:-40~70℃,相对湿度不大于85%,且震动和被测(控)介质的急剧脉动应对仪表正常工作无明显影响。 温度影响:使用温度偏离20±5℃时,其温度附加误差

不大于0.4%/10℃。 重量:1.2kg

Measurement scope

Environmental conditions for operation: -40~70°C, relative humidity no more than 85% and the abrupt pulsation of the vibration and the measured (controlled) medium shall have no obvious influence on the normal operation of the instrument.

Temperature influence: when the operation temperature deviates by $20\pm5^{\circ}$ C, the additional error of the temperature shall be no more than $0.4\%/10^{\circ}$ C.

Weight: 1.2kg

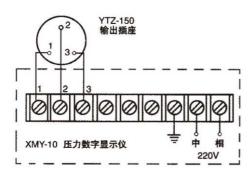
测量范围 Measurement scope

 $0 \sim 0.1; 0 \sim 0.16; 0 \sim 0.25; 0 \sim 0.4; 0 \sim 0.6; 0 \sim 1; 0 \sim 1.6; \quad 0 \sim 2.5; 0 \sim 4; 0 \sim 6; 0 \sim 10; 0 \sim 16; 0 \sim 25; 0 \sim 40; 0 \sim 60$

 $-0.1 \sim 0$; $-0.1 \sim 0.06$; $-0.1 \sim 0.15$; $-0.1 \sim 0.3$; $-0.1 \sim 0.5$; -0.1 - 0.9; $-0.1 \sim 1.5$; $-0.1 \sim 2.4$

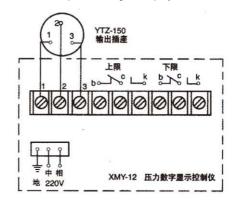
配套接线图

与XMY-10压力数字显示仪配套 与XMY-12压力数字显示控制仪配套



Supporting wiring diagram

Used with XMY-1 0 pressure digital display instrument Used with XMY-12 pressure digital display control meter



电阻远传压力表选型

Type selection of transmission pressure gauge

电阻远传压力表 Resistance transmission pressure gauge YTZ							
壳体+元件材质 Shell + element material 碳钢+铜 Carbon steel + copper 无代 不锈钢+不锈钢 Stainless steel + stainless steel	说码 No cod B	ling					
连接符号 Connection symbol		-					
表盘直径 Diameter of the gauge disc φ150	φ150						
过程连接 Process connection M20×1.5 G1/2 1/2'NPT 其他 Others				M20×1.5 G1/2 1/2'NPT Text des			
精度等级 Precision grade 1.6 Grade 2.5 Grade 其他 Others			文字说明	1.6 2.5 月 Text de	escription	l	
附件可选 Optional accessories 阻尼器 Damper 散热器 Radiator 过压保护器 Overvoltage protection device 冷凝管 Siphon tube 其他 Others					文字注明	ZN SR OP SP Text de	scription

YCA系列双膜片高静压差压力表

YCA Series Double-diaphragm High Static Pressure **Differential Pressure Gauge**



产品简介

双膜片式高静压差压力表主要用于过滤器的正负压力端, 液体罐液位、泵出入口、输气管线和加压站等场合的压力差 测量。本差压表具有较高的耐压性能,并能适用于有腐蚀性 的环境中使用。

主要技术指标

仪表直径:100、150(mm); 精度等级:2.5%(可选1.6%);

测量范围:最低0-25KPa;

防护等级: IP65;

工作环境温度:-20℃~70℃;

过程连接: M20×1.5、G1/2/、NPT1/2或其他定制螺纹;

膜片材质: 负压316L、正压316Ti;

接头材质:316; 表壳材质:304; 机芯材质:304;

仪表玻璃:防爆双层安全玻璃;

表针:调零表针黑色铝; 表盘:铝白底黑刻度字。

工作压力及使用范围

静压:表面满量程; 动压: 0.7倍满量程;

过压保护:双边耐压10MPa;

如有其它特殊要求,须我公司技术确认后可定制。

Product introduction

The double-diaphragm high static pressure differential pressure gauge is mainly applied for measuring the pressure difference in the positive and negative pressure sides of filter, liquid level of liquid pot, accesses of pump, gas transmission pipeline and pressure station. This differential pressure gauge has high pressure-resistant property, and can be adaptable in corrosive environment.

Main Specifications

Diameter of instrument: 100, 150 (mm)

Accuracy class: 2.5% (alternative class as 1.6%)

Measurement range: Minimum 0-25KPa maximum 0-2.5MPa Protection grade: Ip65

Operating environment temperature: -20°C~70°C

Procedure linkage: M20×1.5, G1/2/, NPT1/2 or other customized

threads

Materials of diaphragm: 316L of negative pressure, 316Ti of

positive pressure Joint material: 316 Watch case material: 304 Movement material: 304

Instrument glass: explosion-proof double-deck non-shatterable

Watch needle: zero setting watch needle, colored in black, and

materialized as Aluminum.

Dial: materialized as Aluminum, black graduated characters on

white background.

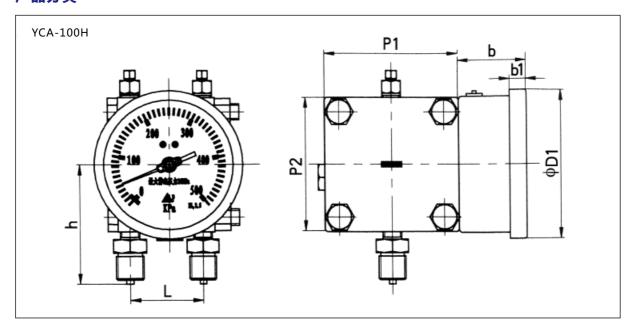
Working pressure and application range

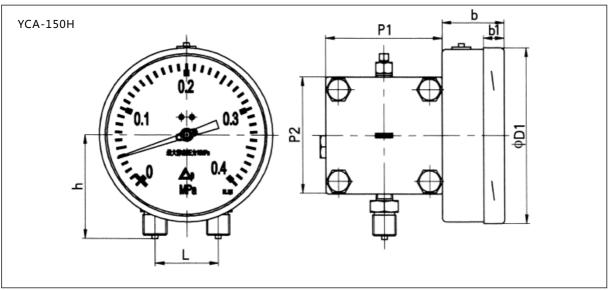
Static pressure: full scale on surface Dynamic pressure: 0.7 time of full scale

Over-voltage protection: withstand voltage on each side, 10MPa If other special requirements occur, the instrument can be

customized after confirmed technically by our company.

Product classification



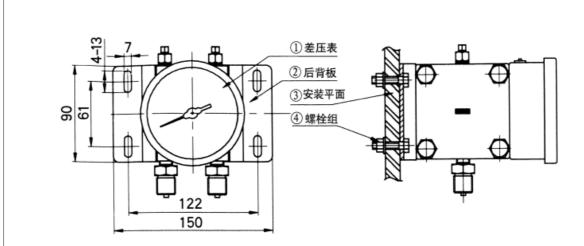


型 号 Madal		几何尺寸 Geometry size							
Model	fI D1	b1	b	P1P2	L	h			
YCA-100H	110	110	51.5	100	54	100			
YCA-150H	149	149	53.5	100	34	100			

Products overall dimensions

(1)后背板安装

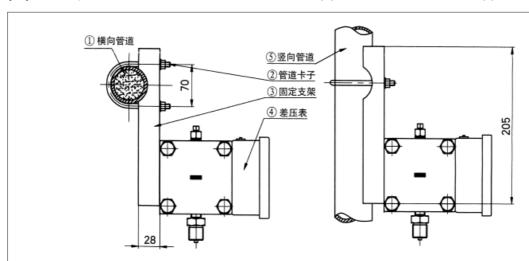
(1)Installation of rear panel



- 注:1、后背板只适合平面安装(如仪表板、机器外表平面等);
- 2、注意平面要坚固,使差压表安装后牢固,不会发生掉落;
- 3、特殊后背板可按客户要求出图加工或照来样加工。
- Note: 1.The rear panel is merely adoptable to be installed on the surface. (instrument board and external surface of
- $2. \\ The surface is required to be solid as to stabilize the$ differential pressure gauge after installation and to prevent the dropping of gauge.
- 3. The special rear panel can be illustrated and processed in accordance with customer's requirement or with customer's materials.

(2)固定支架安装

(2) Installation for fixed support

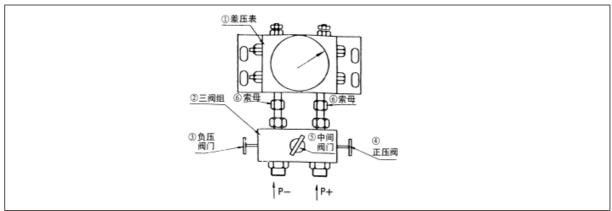


- 注:1、固定支架安装只适用于管道安装(横向或竖向);
- 2、注意管道的外径不能大于60mm;
- 3、仪表可以装到支架上方或下方,方便用户自由选择。
- Note:1.The fixed support is merely adoptable to be installed in pipeline (crosswise or vertical).
- 2.Please note that the outer diameter of pipeline shall be no more than 60mm.
- 3. The gauge can be installed either on or beneath the support, and this shall be determined by customers.

三阀组的安装、拆卸及使用方法

Installation, disassemble and application method of three-valve manifold

安装

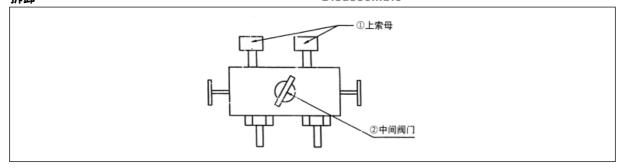


Installation

- 1、正常使用差压表必须配三阀组或五阀组以保护差压表正常工作。
- 2、差压表和三阀组用两个索母紧固。索母和差压表接头密封面应加 四氟垫片。
- 3、装有三阀组的差压表在使用前必须把中间阀门打开,并把正压阀 门和负压阀门打开。(当P+和P•任意的压力先进入时,中间阀门能 起到平衡差压表两腔体内的压力的作用,以免打坏差ffi表。
- 4、当P+、P•的压力正常进入三阀组后,再关闭中间阀门使差压表正 常工作。如差压表表针有轻微离零属正常,只需把表针调到零位即可 (注意必须用肥皂水检验所有密封口是否泄露,如有泄露必须紧固。)
- 5、差压表有后背板式安装(如图)和立管固定方法。(管卡子卡到 管子上)

- 1. To guarantee the normal application of differential pressure gauge, the three valves manifold or five valves manifolds shall be equipped.
- 2. The differential pressure gauge and three valves manifolds are fastened by two lock nets. PTFE spacer shall be embedded between lock net and differential pressure gauge.
- 3. The middle valve of differential pressure gauge equipped with three valves manifold shall be opened before using this gauge, and in the meantime the positive pressure valve and negative pressure valve shall be opened. (While any pressure amount of P+ and P• is entered, the middle valve shall exert the function of balancing the pressure inside two cavities of differential pressure gauge as to protect the ffi gauge from being broken.)
- 4. Once the pressure of P+and P•is normally entered in the three valves manifolds, the middle valve shall be closed as to quarantee the regular functioning of the differential pressure gauge. If the watch needle of differential pressure gauge is fluctuated around the zero setting, set the watch needle back to the zero. (Note that all the seals shall be checked for leakage. If the leakage occurs, the seal must be fastened.)
- 5. The rear-panel installation instruction (as shown below) and the stand pipe fixation method are presented on the back of differential pressure gauge. (pipe clamp is clamped on the pipe)

拆卸 Disassemble



- 1.首先打开三阀组的中间阀门。并打开正压和负压阀门(正压负压 阀门原始为打开)
- 2.关闭总进气的两个阀门(在设备的主管道上)
- 3.拆下更换仪表(卸两个索母)注意用扳子卡住差压表的接头,只拆三 阀组上的上 索母。先松开一点放空压力,再把卡到管子上的卡子螺 母松掉,并把卡子拿下。
- 4.再把三阀组上的两个索母慢慢松开把差压表取下。(注意一定要两 个索母同时松)
- 1. The middle valve of the three valves manifold shall be firstly opened, and the positive pressure and negative pressure valves shall be opened. (the positive pressure and negative pressure valves are originally opened)
- 2. Two valves of inlet valve shall be closed. (on the main pipe of the instrument)
- 3. The gauge is disassembled and replaced (two lock nets are disassembled). Clamp the joint of differential pressure gauge, and merely disassemble the up lock net of three valves manifold. Slightly unscrew the lock net as to release the pressure, and then screw off the clamp nut clamped on the pipe. Afterwards disassemble the clamp.

5.把新表装上的方法同上面安装方法最好换上两个新的四氟垫(确保 不漏)

6.把卡子卡好

7.先开总开关(两个再关上差压表三阀组中间的阀门(新接口用肥宴

8.两分钟后把差压表表针调到零位。(如没有轻微离零不用调整)

注:在装表或卸表时,必须保证中间阀门和P+、P-两个阀门全部开 启,以确保仪表能正常使用。

- 4. Two lock nets on the three valves manifold are slowly screwed off gradually. (the disassembling of two lock nets shall be initiated simultaneously)
- 5. The installing method of new gauge is similar to the installation method mentioned above. It is advised to renew two PTFE spacers. (as to guarantee the non-leakage condition)
- 6. Clamp the pipe clamp tightly.
- 7. The main switch shall be firstly opened. The middle valve of the three valves manifold shall be shut. (the new joint shall be check-
- 8. The watch needle of differential pressure gauge shall be set to zero in two min. (if the watch needle is slightly fluctuated on the zero setting, the resetting is not of necessity)

Note: While installing the gauge or disassembling the gauge, the middle valve, P+ and P- valves shall be completely opened as to guarantee the normal application of the instrument.

YCA系列选型双膜片高静压差压表选型

YCA series selection for double-diaphragm high static pressure differential pressure gauge

					10101111			5
双膜片高静压差压表YCA Double-diaphragm high static pressure differential pressure gauge YCA	e							
压力表类型 Types of pressure gauge 普通型 Ordinary type 隔膜螺纹 Diaphragm thread	无代码 No (Coding						
连接符号 Connection symbol			-					
表盘直径 Diameter of the gauge disc φ100 φ150				φ100 φ150				
规格 Specification 防腐性 Corrosion-proof 标准型 Normalized			₹.	H 代码 No	Coding			
安装方式 Installation method 后背板安装 Installation of rear panel 管卡安装 Installation of pipe clamp						TH GH		
精度等级 Precision grade 1.6 Grade 2.5 Grade							1.6 2.5	
连接螺纹 Connecting thread M20×1.5 G1/2 NPT1/2 其他 Others							M20: G1/2 NPT 其他	

化学密封

Chemical seal

产品简介

隔膜系列压力表是由一个不同类型的标准压力表与一个 隔膜隔离体配接而成的。隔膜隔离体中配有隔膜,可以将被 测介质与填充液分开,增加了标准型压力表对特殊腐蚀要求、 温度高、粘度大或含有固态浮游物、易结晶介质的测量性能。 主要应用在石油化工、制碱、化纤、制药、钢铁、食品等行 业。隔膜隔离体分为螺纹连接和法兰连接。

结构原理

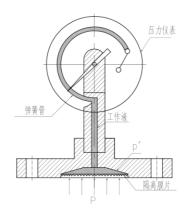
隔离膜片在被测介质压力P的作用下产生变形,使内部 填充液形成一个相当于P的压力p'经工作液的传导,使压力 仪表中的弹簧管发生变形,并在与之相配接的压力仪表上显 示出被测的压力值。

Product introduction

The diaphragm pressure gauge is made of a different type of standard gauge and a diaphragm spacer. The diaphragm body is equipped with diaphragm which can isolate the the measured medium and the filling liquid so as to increase the performance of corrosion of the standard type pressure gauge, the material with high temperature, the high viscosity or containing solid floating matters, material which is easy to form crystal. It is mainly used in petrochemical, alkali, chemical fiber, pharmaceutical, iron and steel, food and other industries. Diaphragm separator is divided into screw connection and flange connection.

Structure principle

Diaphragm deformation is generated under the action of P which is actually the measured media so that the internal filling solution form a pressure p'equivalent to the P. Through the conduction of the working liquid, the spring in the pressure gauge will form deformation and the measured pressure value is displayed in the pressure gauge matched.

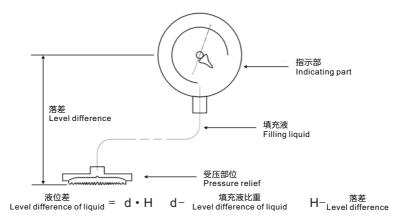


隔膜压力表密封液的液位差

隔离膜片在被测介质压力P的作用下产生变形,使内部 填充液形成一个相当于P的压力p'经工作液的传导,使压力 仪表中的弹簧管发生变形,并在与之相配接的压力仪表上显 示出被测的压力值。

Liquid level difference of sealing liquid of diaphragm pressure gauge

Diaphragm deformation is generated under the action of P which is actually the measured media so that the internal filling solution form a pressure p'equivalent to the P. Through the conduction of the working liquid, the spring in the pressure gauge will form deformation and the measured pressure value is displayed in the pressure gauge matched.



标度范围、精确度等级

Scale range and accuracy class

型 号 Model	名 称 Name	图 样 Photo sample	应 用 Application
F01	平嵌膜片 Flush diaphragm	205	有高温要求的过程和石化行业 The process and petrochemical industry the with high temperature requirements
F02	夹心型 Sandwich-type		有高温要求的过程和石化行业 The process and petrochemical industry the with high temperature requirements
F03	带可插入扩展膜片 的法兰隔膜密封 Flange diaphragm seal with insert expansion diaphragm		带可插入扩展膜片的法兰隔膜密封 Flange diaphragm seal with insert expansion diaphragm
F04	内嵌膜片 Embedded diaphragm		有高温要求的过程和石化行业 The process and petrochemical industry the with high temperature requirements
F05	带可插入扩展膜片的夹心型 Sandwich type with insert expansion membrane		过程和石化行业,尤其适用于厚壁 或隔离的容器和管道 The process and petrochemical industries, especially suitable for thick walled vessels and piping or quarantine
F06	整体焊接式或鞍型法兰 Integral welding type or saddle flange		用于在化学工程和石化行业中连接整体 焊接式法兰或鞍型法兰 Used in chemical engineering and petrochemical industry to connect the whole welding type flange or saddle flange
F07	纸浆和造纸工业 Pulp and paper industry		适用于纸浆和造纸工业 Suitable for pulp and paper industry
F08	圆筒型隔膜密封,夹心型 Sealed cylindrical sandwich diaphragm		可直接、永久性安装到管线;适用于流动 介质;或用于无死区测量点 It can be installed directly into the pipeline; applicable to the mobile media; or for non-dead area measurement points
F09	圆筒型隔膜密封,夹心型 Sealed cylindrical sandwich diaphragm		可直接、永久性安装到管线;适用于流动 介质;或用于无死区测量点 It can be installed directly into the pipeline; applicable to the mobile media; or for non-dead area measurement points

螺纹式隔离密封

Isolation seal of screw type

型 号 Model	名 称 Name	图 样 Photo sample	应 用 Application
F01	小型隔离密封,带平嵌隔离 Small isolated seal with flat block		过程和石化行业,尤其适用于厚壁或 隔离的容器和管道 The process and petrochemical industries, especially suitable for thick walled vessels and piping or quarantine
F02	焊接结构 Welded structure		用于在化学工程和石化行业中连接整体 焊接式法兰或鞍型法兰 Used in chemical engineering and petrochemical industry to connect the whoe welding type flange or saddle flange
F03	焊接结构,经济型 Welded structure, economical type		适用于纸浆和造纸工业 Suitable for pulp and paper industry
F04	大盘膜片,螺纹连接设计 Large diaphragm, threaded connection design		可直接、永久性安装到管线;适用于 流动介质;或用于无死区测量点 It can be installed directly into the pipeline; applicable to the mobile media; or for non-dead area measurement points
F05	舌型隔膜密封 Tongue diaphragm seal		可直接、永久性安装到管线;适用于 流动介质;或用于无死区测量点 It can be installed directly into the pipeline; applicable to the mobile media; or for non-dead area measurement points

卫生连接型隔膜密封

Diaphragm seal of the sanitary connection type

型 号 Model	名 称 Name	图 样 Photo sample
WF01	DRD连接 DRD connection	
Wf02	外螺纹接头 External thread join	
Wf03	卡箍型 Clamp type	
Wf04	圆筒型隔膜密封 Cylindrical diaphragm seal	
Wf05	圆筒型隔膜密封,无菌连接 Cylindrical diaphragm seal, sterile connection	

附件

Accessory

阻尼器 Damper

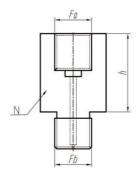
用来御防强烈的流体脉冲,以保护压力表不受损坏的 装置。适用于被测介质有强烈脉冲的压力系统中。

It is used to resist a strong flow of fluid to protect the pressure gauge from damage. The pressure system is suitable for the pressure system of the medium with strong impulse.

The structural diagram of the damper is shown in the following content:

F	h	N
M20×1. 5a-M20×1. 5b	20	24
1/2"NPT a-1/2"NPT b	20	24
G1/2" a-G1/2"b	20	24





散热器 Radiator

主要用于冷却被测高温气体液体等压力介质,能有效降 低压力介质的温度,并可减少压力介质的压力脉动对压力表 的冲击,使压力表能长期、准确的测量高压力介质,常用 于不饱和蒸汽等高温介质的测量。

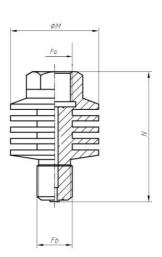
It is mainly used for cooling the high temperature gas and liquid whose pressure is measured. It can effectively reduce the pressure of the medium temperature and the impact the pressure impulse of the pressure medium on the pressure gauge to make the pressure gauge be able to measure high pressure medium for a long time, accurately. It is commonly used in the measurement of unsaturated steam and other high temperature medium.



结构

The structural diagram of the damper is shown in the following content:

F	h	N
M20×1. 5a-M20×1. 5b	50	75
1/2"NPT a-1/2"NPT b	50	75
G1/2" a-G1/2"b	50	75



过压保护器 Overvoltage protection device

用来御防强烈的流体脉冲,以保护压力表不受损坏的装 置。适用于被测介质有强烈脉冲的压力系统中。

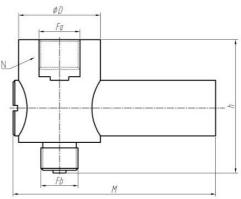
It is used to resist a strong flow of fluid to protect the pressure gauge from damage. The pressure system is suitable for the pressure system of the medium with strong impulse.

外形尺寸

Dimension

F	D	h	М	N
M20×1. 5a-M20×1. 5b	44	80	110	37
1/2"NPT a-1/2"NPT b	44	80	110	37





冷凝管 Condenser tube

冷凝管主要应用在具渗透或饱和的蒸气高温环境之下, 避免压力表内部直接与高温流体接触。

The condenser tube is mainly used in the high temperature environment with infiltration or saturation to avoid direct contact with high temperature fluid in the pressure gauge.

外形尺寸

Dimension

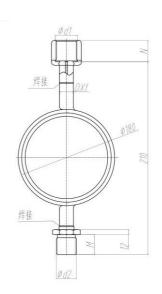
d1	d2	М	N	D×f
M20×1.5	M20×1.5	20	20	-
G1/2	G1/2	20	20	φ14×2
NPT1/2	NPT1/2	20	20	-

最大允许工作压力:20Mpa 最大允许耐压:30Mpa

Maximum allowable working pressure: 20Mpa

Maximum allowable voltage: 30Mpa





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