

YE-100、150 系列膜盒压力表

YE-100,150 series capsule pressure gauge

用途说明 Application Description

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，广泛应用于锅炉通风、气体管道、燃烧装置等及其它类似设备上。

This gauge adopt capsule as the sensitivity part, can measure the micro-pressure or negative pressure of the gases which have no corrosion function to the copper alloys and have no explosion. And it is widely used in boiler ventilation, gas tube and fuel setting and so on.

结构原理 Structure

仪表由测量系统(包括接头、膜盒等)、传动机构、指示装置和外壳组成。

当被测介质的压力作用于膜盒时，其自由端产生相应弹性变形一位移，经拨杆带动传动机构放大，由指示装置将被测压力在仪表盘上指示出来。

This gauge is made up of the measuring system (involve connector,capsule), gear setting, point setting,and outer case.

When the pressure of the medium act on the capsule, and make it moving, with the help of the stick and magnified, the pointor point out on the dial.

主要技术指标 Main Technical Data

◇ 标度范围、精确度等级及重量 Scale range ,accuracy class and weight

型号 Model	标度范围(KPa) Scale range			精确度等级 Accuracy class	重量kg Weight
	正压 Positive pressure	负压 Negative pressure	正负压 Positive and negative pressure		
YE-100 YE-150	0~1.6	-1.6~0	-0.8~+0.8	2.5	0.5
	0~2.5	-2.5~0	-1.2~+1.2		
	0~4	-4~0	-2~+2		
	0~6	-6~0	-3~+3		
	0~10	-10~0	-5~+5		
	0~16	-16~0	-8~+8		
	0~25	-25~0	-12~+12		
	0~40	-40~0	-20~+20		

外形尺寸 Dimension

◇ 工作位置、环境：仪表垂直安装，工作环境温度-25~55℃，相对湿度不大于80%，并且周围空气中不含有腐蚀仪表的有害气体。

◇ 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℃。

◇ Working positon, environment: the gauge should be installed vertically, working temprature is -25℃~55℃, relative humidity is no more than 80%. and corrosive gases mustn't exist in the ambient environment.

◇ Temperature effect: when environmental temperature deviates from 20±5℃,additional error is no more than 0.4%/10℃.



YE-100



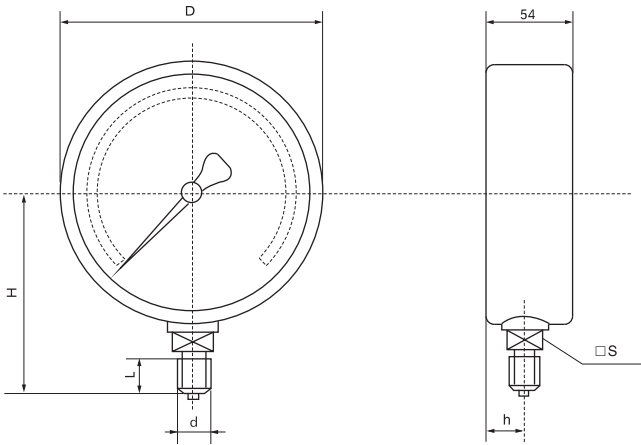
YE-150

◇ 导(测)压系统及外壳等主要零件的材质

Material of measuring system and main accessories

零件名称 Name of spare part	材料牌号 Material code
接头 Connection	黄铜 Brass HPb59-1
膜盒 Capsule	锡青铜 Tin bronze QSn6.5-0.1
齿轮传动机构 Tooth gear	铜 Copper HPb59-1
表壳、罩壳 Case and ring	冷轧钢板 20 Cold-rolling sheet

单位(Unit): mm



型号 Model	D	H	L	d	h	□S
YE-100	Φ 100	90	20	M20×1.5	17	□22
YE-150	Φ 150	118	20	M20×1.5	17	□22

YE-B 系列不锈钢膜盒压力表

YE-B series stainless steel capsule pressure gauge

用途说明 Application Description

不锈钢膜盒压力表根据普通膜盒压力表的结构原理而研制的具有耐腐蚀的微压测量仪表。导压系统及外壳均采用不锈钢材料制成。应用于耐腐蚀要求较高的工艺流程中对各种气体介质的微压和负压的测量；也可用于锅炉通风、气体管道、燃烧装置等及其它类似设备上。是引进国外先进技术设备中同类仪表实现国产化的理想配套产品。

This gauge is designed on the base of the structure of the normal of the capsule of the pressure gauge, which has the anti-corrosive character. The material of the measuring system and outer case is stainless steel. It is suited for measuring the micro-pressure or vacuum of all kinds of gases in technologic process which has high require for the corrosion. And also can be used in boiler ventilation, gas tube and fuel setting and so on. Also it is the ideal accessories for domestic consumers who want to homemade the same gauge imported abroad.



YE-100B

结构原理 Structure

仪表由测量系统(包括接头、膜盒等)、传动机构、指示装置和外壳组成。导压系统及外壳均用不锈钢材料制成,采用密封型结构,防护污秽物侵入。

当被测介质的压力作用于膜盒时,其自由端产生相应弹性变形一位移,经拨杆带动传动机构放大,由指示装置将被测压力在仪表度盘上指示出来。

This gauge is made up of the measuring system(involved connector,capsule), gear setting, point setting, and outer case. Measuring system and outer case are both made of stainless steel, adopt the air-proof type structure to avoid being dirtied.

When the pressure of the medium act on the capsule, and make it move, with the help of the stick and magnified, the pointer point out on the dial.

主要技术指标 Main Technical Data

◇ 标度范围、精确度等级

型号 Model	标度范围(KPa) Scale range			精确度等级 Accuracy class
	正压 Positive pressure	负压 Negative pressure	正负压 Positive and negative pressure	
YE-100B YE-150B	0~4	-4~0	-2~+2	2.5
	0~6	-6~0	-3~+3	
	0~10	-10~0	-5~+5	
	0~16	-16~0	-8~+8	
	0~25	-25~0	-12~+12	
	0~40	-40~0	-20~+20	
	0~60			

◇ 使用环境条件: 工作环境温度-25~55℃

相对湿度不大于80%

◇ 抗工作环境振动: V.H.3

◇ Scale range accuracy

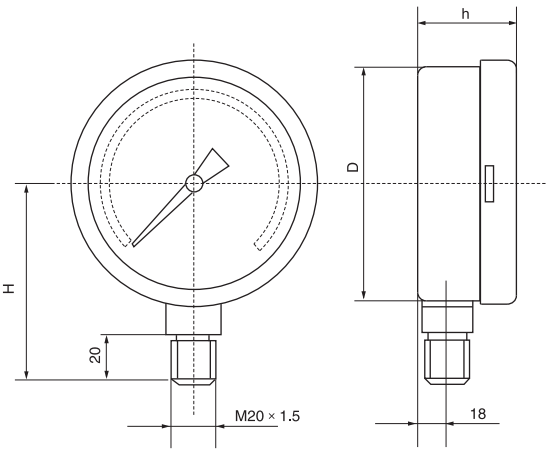
◇ Environment condition: -25℃~55℃,

relative humidity is no more than 80%.

◇ Shake resistance grade: V.H.3

外形尺寸 Dimensions

单位(Unit): mm



型号 Model	D	H	h
YE-100B	100	90	50
YE-150B	150	120	44

◇ 导压系统及外壳材质 Measuring system and case material

型号 Model	材料牌号 Material brand
接头 Connection	1Cr18Ni9
膜盒 Capsule	1Cr18Ni9
表壳、表盖、表环 Case、window and ring	1Cr18Ni9

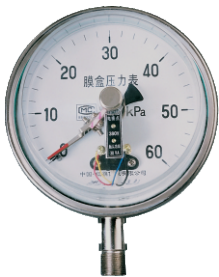
YEX-B 系列不锈钢膜盒电接点压力表

YEX-B series electric junction prod pressure meter with stainless steel bellows

用途说明 Application Description

不锈钢膜盒电接点压力表是根据不锈钢膜盒压力表的结构原理而研制的具有耐腐蚀的微压测量仪表。导压系统及外壳均采用不锈钢材料制成，仪表经与相应的电气器件配套使用，可达到对被测压力系统实现预先设定的最大或最小压力值的双位自动控制和发信(报警)的目的。

The electric junction prod pressure meter with stainless steel bellows is a kind of measuring micro-pressure apparatus with immunity to corrosion which is manufactured according to the structure principle of the stainless steel film power meter. The conducting pressure system and shell adopted the stainless steel. The meter can automatic control double-position which are prearranged maximum and minimum pressure value to the measured system and signal alarm if match with corres-ponding electric apparatus.



YEX-150B

结构原理 Structure

仪表由测量系统(包括接头、膜盒)、传动机构、指示装置、磁助电接点装置、外壳、调节装置及航空杆等组成。

当被测介质的压力作用于膜盒时，其自由端产生相应弹性变形—位移，经拨杆带动传动机构放大，由指示装置将被测压力在仪表度盘上指示出来。同时指针带动电接点装置的活动触点与设定指针上的触头(上限或下限)相接触的瞬时，致使控制系统接通或断开电路，以达到自动控制和发信报警的目的。

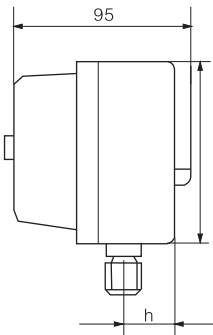
The meter is composed of measuring system (including the contact,bellows), transmission structure, indicating device, magnetic-aid electric junction device, shell, adjusting device and navigation pole.

When the medium pressure acts on the bellows, the free end will produce flexibility-displacement. The signal will be magnified by the transmission structure though the pole and be displayed on the instrument panel by the indicating device. Meanwhile the finger drive free contact of the electric junction prod and contact of the finger(upper limit or lower limit) together that can lead the control system turn on or break the circuit. The function of automatic control and signaling alarm can be realized.

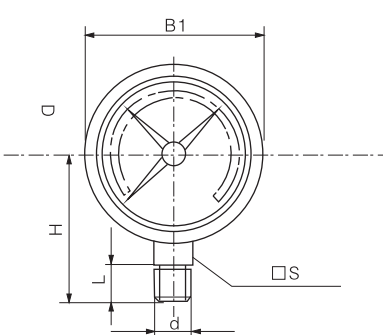
外形尺寸 Dimension

单位(Unit): mm

YEX-150B



YEX-150



型号 Model	D	H	C	d	h	DS
YEX-150B	Φ 150	118	20	M20×1.5	17	□ 22

主要技术指标 Main Technical Data

◇ 标度范围、精确度等级

Scale range and accuracy class

型号 Model	标度范围(KPa) Scale range			精确度等级 Accuracy class
	正压 Positive pressure	负压 Negative pressure	正负压 Positive and negative pressure	
YEX-150 YEX-150B	0~4	-4~0	-2~+2	2.5
	0~6	-6~0	-3~+3	
	0~10	-10~0	-5~+8	
	0~16	-16~0	-8~+8	
	0~25	-25~0	-12~+12	
	0~40	-40~0	-20~+20	
	0~60			

◇ 使用环境条件：工作环境温度-25~55℃。

相对湿度不大于80%。

◇ 抗工作环境振动：V.H.3。

◇ Environmental condition: -25℃~55℃, relative humidity is no more than 80%.

◇ Shake resistance grade: V.H.3.

◇ 导压系统及外壳材质

Measuring system and case material

型号 Model	材料牌号 Material brand
接头 Connection	1Cr18Ni9
膜盒 Capsule	1Cr18Ni9
表壳、表盖、表环 Case, window and ring	1Cr18Ni9

YEJ-101 矩形膜盒压力表

YEJ-101 rectangle capsule pressure gauge

YEJ-121 矩形接点膜盒压力表

YEJ-121 rectangle capsule pressure gauge with electrical contact

用途说明 Application Description

YEJ-101型矩形膜盒压力表适用于锅炉通风设备等对铜合金不起侵蚀作用的中性和、无爆炸危险的气体的微压和负压进行测量。

YEJ-121型矩形接点膜盒压力表适用于锅炉通风设备中对铜合金不起侵蚀作用的中性和、无爆炸危险的气体的微压和负压进行测量并具有双二位调节(双限发讯)的作用，以实现位式调节或超限报警之用。

YEJ-101 rectangle diaphragm box pressure gauge is suited for measuring the pressure of the gases which will neither explode nor corrode the copper alloys.

YEJ-121 rectangle diaphragm box pressure gauge with electrical contact is suited for measuring the pressure of the gases which will neither explode nor corrode the copper alloys. And have the function of two location adjusting, which can adjust and send out alarm if the pressure reach or exceed the limit.

主要技术指标 Main Technical Data

- ◇ 精确度等级：2.5。
- ◇ 使用环境条件：-20~60℃(YEJ-121型为0~50℃)，相对湿度不大于85%，且震动和被测介质的急剧脉动应对仪表正常工作无明显影响。
- ◇ Accuracy class:2.5.
- ◇ Environmental condition:-20℃~60℃(the YEJ-121 type is 0~50℃),relative humidity is no more than 85%. and the undulate of the shock and pressure resource has no influence to accurate readings of the gauge.
- ◇ 测量范围 Scale range (Pa)

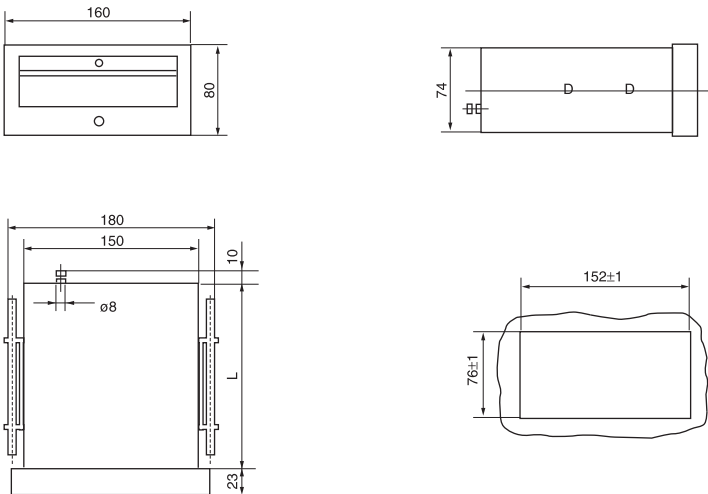
正压 Positive pressure	负压 Negative pressure	正负压 Positive and negative pressure
0~250	-250~0	-120~+120
0~400	-400~0	-200~+200
0~600	-600~0	-300~+300
0~1000	-1000~0	-500~+500
0~1600	-1600~0	-800~+800
0~2500	-2500~0	-1200~+1200
0~4000	-4000~0	-2000~+2000
0~6000	-6000~0	-3000~+3000
0~10000	-10000~0	-5000~+5000
0~16000	-16000~0	-8000~+8000
0~25000	-25000~0	-12000~+12000
0~40000	-40000~0	-20000~+20000

- ◇ 重量：2kg(101型)，2.5kg(121型)
- ◇ 电气指标：(YEJ-121型)
 - 设定误差：小于全量程的2.5%
 - 位式输出接点容量：交流无感负载3A 220V
 - 工作电源：AC 220V
 - 消耗电源：小于 5W
- ◇ 压力接口：Φ8(配用内径Φ6软管)

- ◇ Weight: 2kg(101 type),2.5kg(121 type)
- ◇ Electric character: (YEJ-121 type)
 - setting error: less than 2.5% of full range
 - outputting capacity: alternative loading 3A 220V
 - Power:AC 220V
 - consuming power: less than 5W
- ◇ pressure port: with pipe of 6 dia

外形尺寸 Dimension

单位(Unit): mm



	101 型 Type	121 型 Type
L	160	250

接线端子图 Connection Chart

- ◇ YEJ-121

