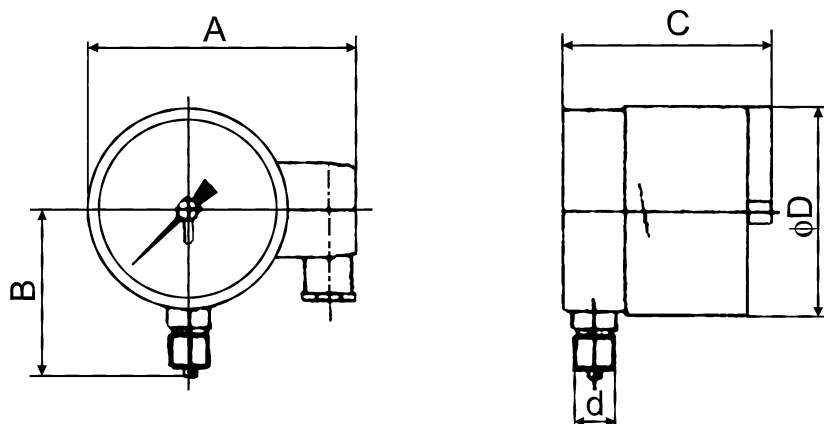
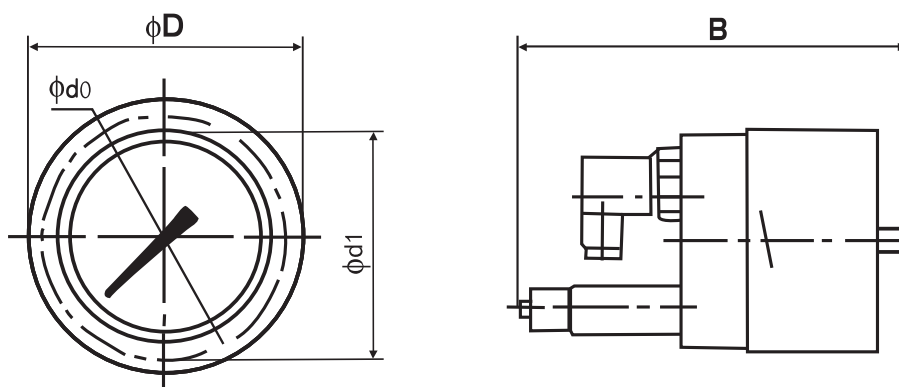


仪表外型尺寸 DIMENSIONS



尺寸 Dimension		A (mm)	B (mm)	C (mm)	D (mm)	d (mm)
型号 Model						
Without mounting loop 不带安装环	公称直径 Diameter 63mm	25	59	78	64	G $1/4$ "
	公称直径 Diameter 100mm	136	90	95	101	M20 × 1.5 或其它规格 or other specifications
	公称直径 Diameter 150mm	190	120	95	149	
	公称直径 Diameter 160mm	193	125	98	161	



尺寸 Dimension		A (mm)	B (mm)	C (mm)	D (mm)	d (mm)
型号 Model						
With mounting loop 带安装环	公称直径 Diameter 100mm	136	90	95	101	M20 × 1.5 或其它规格 or other specifications
	公称直径 Diameter 150mm	190	120	95	149	



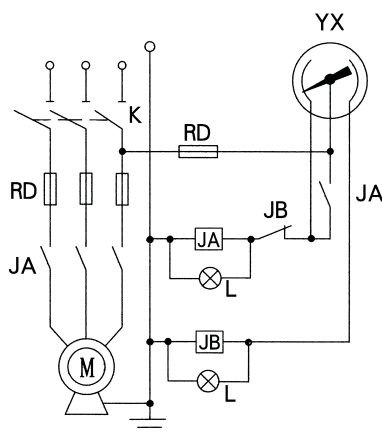
MODEL YXH/YXHN

主要技术参数 Specifications

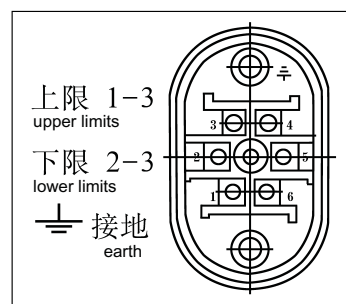
执行标准 Execntive standard: JB/T9273-1999

测量范围	最小 Minimum: 0~0.1Mpa 最大 Maximum: 0-100Mpa 负压最小 Minimum negative pressure: -0.1Mpa 负压最大 Maximum negative pressure: -0.1~2.4Mpa	Ranges
指示精度	$\Phi 100\text{mm} \leq 0.1\text{mp} \triangle 2.51\text{A}$ 精度 $\Phi 63\text{mm}/2.5\%$; $\Phi 100/150/160\text{mm}, 1.5\%$ (1.0% 可选)	Accuracy Class(Indication)
设定精度	4%	Accuracy Class(Setting)
接点数量	1个或2个, ($\Phi 100\text{mm}$ 3个或4个接点可选) 1 or 2, ($\Phi 100\text{mm}$, 3 or 4 contacts available)	Quantity of Contacts
接点材质	$\geq 110\text{V}$ 银镍合金, $\leq 36\text{V}$ 黄金	
最高工作电压	AC380V 或(or) DC220V	Maximum Working Voltage
最大电流	1A	Maximum Current
触头功率	30VA	Contact Power
温度影响	使用温度偏离 $20 \pm 5^\circ\text{C}$ 时, 其设定点误差变化不大于 $0.6\%/10^\circ\text{C}$ When temperature deviates from $20 \pm 5^\circ\text{C}$, the error of set point is not more than $0.6\%/10^\circ\text{C}$	Temperature Effects
防护等级	标准不充油型 IP 54; 充油型 IP65	Protection Class
仪表玻璃	普通玻璃、安全玻璃 Common glass or Safety glass	Window
连接尺寸	M20 $\times$ 1.5 或约定的特殊要求 Customized connection	Connection Size
耐震型充液	专用充填液 Special liquid filled	Filling for vibration-proof style

接线图 Wiring Scheme



- YX 电接点压力表
Electric contact pressure gauge
- M 发电机
Power generator
- JA 接触器及其触点
Contactor and its contacts
- JB 中间继电器及其触点
Medium relay and its contacts
- K 组合开关
Combination switch
- L 指示灯
Indication lamp
- RD 熔断器
Fuse



MODEL YXH/YXHN

仪表安装类型 Mounting	可选型号 Model	不锈钢防腐 电接点压力表可选型号 Stainless steel corrosion-proof Electric contact pressure gauge	不锈钢充油耐震 电接点压力表可选型号 Stainless steel vibration-proof with oil filling Electric contact pressure gauge
径向直接安装 Bottom mounting direct Φ 63mm 外径 diameter Φ 100mm 外径 diameter Φ 150mm 外径 diameter Φ 160mm 外径 diameter		YXH-63. AO (YXC-63H) YXH-100. AO (YXC-100H) YXH-150. AO (YXC-150H) YXH-160. AO (YXC-160H)	YXHN-100. AO (YXCN-100H) YXHN-150. AO (YXCN-150H) YXHN-160. AO (YXCN-160H)
轴向直接安装 Back mounting direct Φ 100mm 外径 diameter Φ 150mm 外径 diameter		YXH-100. BO (YXC-100HZ) YXH-150. BO (YXC-150HZ)	YXHN-100. BO (YXCN-100HZ) YXHN-150. BO (YXCN-150HZ)
轴向嵌装 Back embedded mounting Φ 100mm 外径 diameter Φ 150mm 外径 diameter		YXH-100. BT (YXC-100HZZ) YXH-150. BT (YXC-150HZZ)	YXHN-100. BT (YXCN-100HZZ) YXHN-150. BT (YXCN-150HZZ)

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。

Fitting Diaphragm Seal

Composing with our diaphragm seals in different materials,the above pressure gauges can also made into the electric contact diaphragm pressure gauges that are applied in measuring viscous,strongly corrosive medium as well as the orystallographic medium.

法兰隔膜体连接,参见说明书 H.00 页。

Please see Diaphragm Seal Pressure Gauge for more flange diaphragm seals.



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YXH（坚固型）不锈钢电接点压力表 YXH/YXHN

(Solid model) Stainless steel electric contact pressure gauge

YXHN（坚固型）不锈钢充油耐震接点压力表

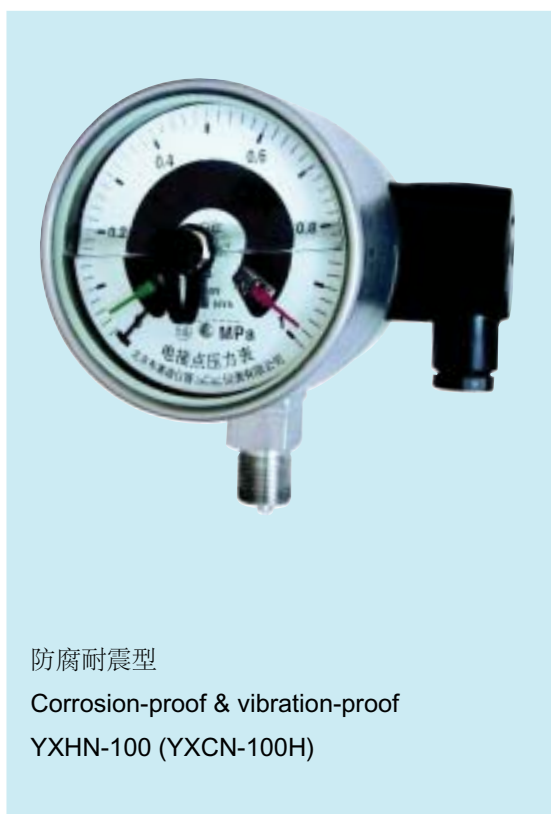
(Solid model) Stainless steel vibration-proof electric contact pressure gauge (oil filling)



防腐型

Corrosion-proof

YXH-100 (YXC-100H)



防腐耐震型

Corrosion-proof & vibration-proof

YXHN-100 (YXCN-100H)

应用 Application

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。

The materials of element for measuring pressure and case are both stainless steel, Suitable for measuring the strong corrosion gaseous and liquid medium pressure.

应用 Application

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。

Both gauges are filled with oil for vibration-proof indication, suitable for the adverse service conditions where sharp pulsation and vibration exist.

主要技术指标 Specifications

执行标准 Executive standard: JB/T9273-1999

型 号 Model	测量范围 Range MPa	精度 Accuracy		连接尺寸 Connection size
		指示 Indication	设定 set	
YX-60	-0.1~0 (0.1~60) (-0.1~2.4)	2.5	2.5	M14 × 1.5 或约定的特殊要求 M14 × 1.5 or on request
YX-100	≤ 0.16MPa	2.5	2.5	M20 × 1.5 或约定的特殊要求 M20 × 1.5 or on request
YXC-100 YXC-150	-0.1-0 至 -0.1-2.4 系列 series 0-0.1 至 0-60 系列 series	1.5	4	M20 × 1.5 或约定的特殊要求 M20 × 1.5 or on request

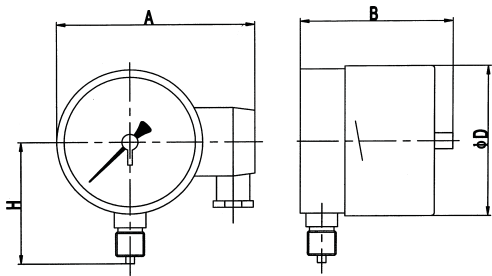
工作压力：静负荷用至测量上限值的 3/4，
交变负荷用至测量上限的 2/3，
短时压力用至测量上限值。
温度影响：使用温度偏离 20 ± 5℃ 时
其设定点误差变化不大于 0.6%10℃
环境温度：-40~70℃（相对湿度不大于 85%）

Working pressure: Static load to the upper limits 3/4,
Alternating load to the upper limits 2/3,
Short time pressure to the upper limits.
Temperature impact: Temperature deviation from
20 ± 5℃ the error of set point is less than
0.6%10℃
Ambient temperature: -40~70℃（The relative
humidity is less than 85%）

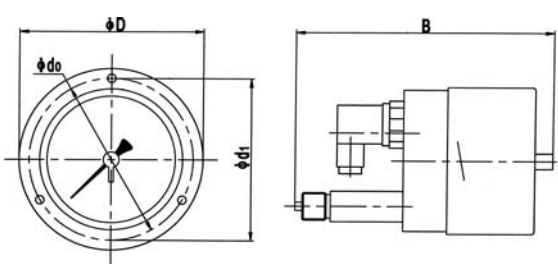
仪表外型尺寸 Dimensions

(表 1)

型号 Model	尺寸 Dimension	A(mm)	H(mm)	B(mm)	D(mm)
径向 bottom φ 150 外径 diameter		169	120	87	150
(YXC-100)径向 bottom 812 φ 100 外径 diameter		122	92	88	102
(YXC-100A)径向 bottom 814 φ 100 外径 diameter		136	90	95	100
径向 bottom φ 60 外径 diameter		75	55	55	60



(图 1)



(图 2)

(表 2)

型号 Model	尺寸 Dimension	d1(mm)	B(mm)	D(mm)	do(mm)
径向 bottom φ 150 外径 diameter		150	150	178	166
径向 bottom 812 φ 100 外径 diameter		102	135	130	116
径向 bottom 814 φ 150 外径 diameter		101	142	132	116



MODEL YX/YXC

磁助电接点隔膜压力表

Snap-action Electric Contact with Diaphragm Seal

普通电接点系列压力表均可通过与隔离器（隔膜体）连接制成电接点隔膜压力表，适用于测量腐蚀性强、粘度大、易结晶介质的压力。

Normal electric contact gauges combine with a separator (diaphragm seal), being electric contact diaphragm pressure gauge, accommodates strongly corrosive media, viscous & crystallographic media.



型号标示 Model remark:

电接点型号 + H 化学密封型号

Model of electric contact + Model of chemical seals

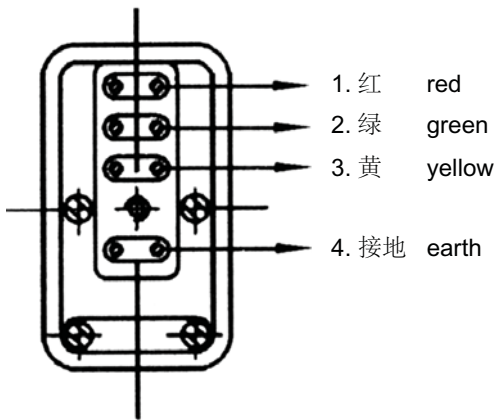
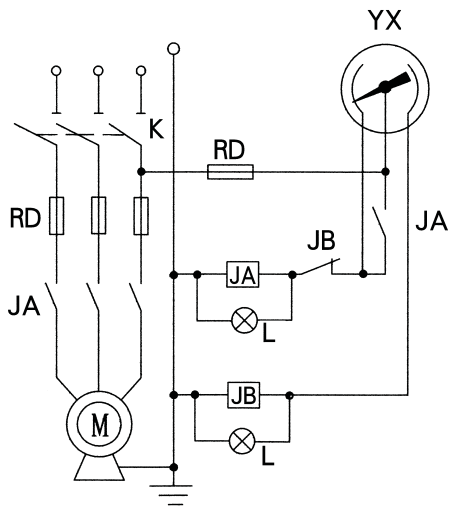
化学密封选项详见样本“H”系列

See “H” series for chemical seals

接线图（电连接应由有资格的人员操作）

Wiring Scheme (only for the qualified person)

YX	电接点压力表	Electric Contact Pressure Gauge
M	发电机	Power Generator
JA	接触器及其触点	Contactor & Its Contacts
JB	中间继电器及其触点	Medium relay & Its Contacts
K	组合开关	Combination switch
L	指示灯	Indicating Lamp
RD	熔断器	Fuse



MODEL YX/YXC

PD

可选型号 Model available 仪表安装类型 Mounting	普通型电接点压力表可选型号 For normal electric contact pressure gauge	普通磁助式电接点压力表可选型号 For snap-action electric contact pressure gauge
径向直接安装 Lower mounting direct 	Φ 60mm 外径 diameter YX-60. AO (YX-60) Φ 150mm 外径 diameter YX-150. AO (YX-150)	Φ 100mm 外径 diameter YXC-100. AO (YXC-100) YXB-100. AO (YXC-100A) Φ 150mm 外径 diameter YXC-150. AO (YXC-150)
轴向直接安装 Back mounting direct 	Φ 60mm 外径 diameter YX-60. ZO (YX-60Z) Φ 150mm 外径 diameter YX-150. BO (YX-150Z)	Φ 100mm 外径 diameter YXC-100. B (YXC-100Z) Φ 150mm 外径 diameter YXC-150. BO (YXC-100Z)
轴向嵌装 Back embedded mounting	Φ 60mm 外径 diameter YX-60. ZT (YX-60ZT) Φ 150mm 外径 diameter YX-150. BT (YX-150ZT)	Φ 100mm 外径 diameter YXC-100. BT (YXC-100ZT) Φ 150mm 外径 diameter YXC-150. BT (YXC-150ZT)
最高工作电压 Maximum voltage	AC 380V or DC 220V	
最大电流 Maximum current	0.7A	1A
触点功率 Contact power	10VA	30VA
控制方式 Cotrol mode	上、下限接点（上上限、下下限等方式特殊约定） Upper lower limits contacts (unless two upper or lower limits specified)	



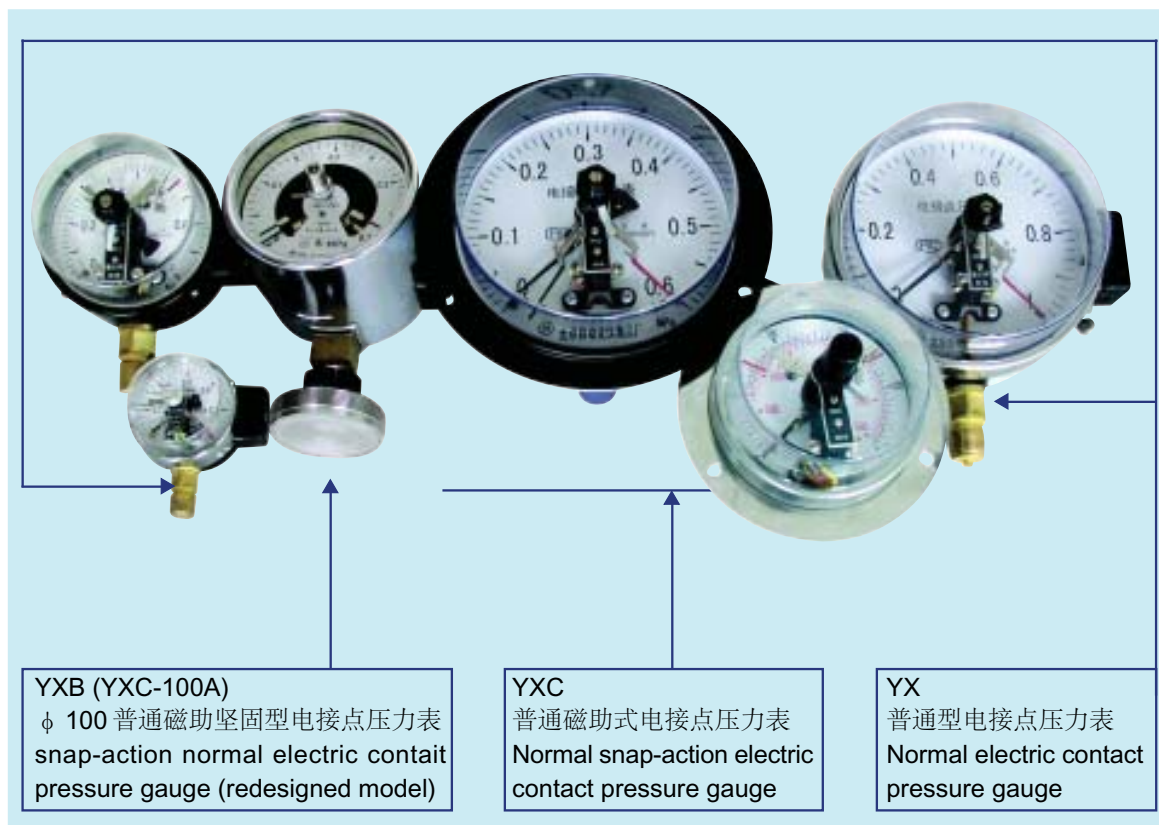
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PD · 01 -3

普通电接点压力表

YX/YXC

Normal Electric Contact Pressure Gauge



YX

普通型电接点压力表

适于测量对铜及铜合金，无腐蚀作用的气体及液体的压力。

YXC

磁助式普通电接点压力表

适于测量对铜及铜合金，无腐蚀作用的气体及液体的压力。

YXC 型电接点压力表同 YX 型电接点压力表相比具有额定功率大，发讯可靠，接点寿命长等特点，并有一定抗振动性能。

YX

Normal Electric Contact Pressure Gauge

YX Standard Electric Contact Pressure Gauge is suitable for measuring pressure of gas or liquid that does not copper and corrupt copper alloy.

YXC

Normal snap-action Electric Contact Pressure Gauge

YXC Standard Electric Contact Pressure Gauge is suitable for measuring pressure of gas or liquid that does not corrupt copper alloy.

YXC Electric Contact Pressure Gauge is better than YX Standard Electric Contact Pressure Gauge on high power rating, reliable signal, long life, and to vibration-proof.

电接点压力表系列

Electric contact pressure gauge series

简介

电接点压力表被广泛应用于石油、化工、冶金、电站等工业部门或机电设备配套中测量无爆炸危险的各种流体介质的压力。

电接点压力表通常与相应的电气器件（如继电器及接触器）配套使用。

仪表由测量系统、指示装置、电接点组件装置、外壳、调整装置和接线盒（插头座）等组成。

仪表的工作原理是基于测量系统中的弹簧管在被测介质的压力作用下,产生位移,通过齿轮传动机构将被测值在度盘上指示出来。与此同时,仪表指针带动动触头与设定指针上的定触头（上限或下限）相接通（或切断），致使控制系统中的电路得以断开或接通，以达到自动控制和发信报警的目的。

Brief

Introduction

Electric contacts pressure gauge is widely used to petrochemical, chemical, metallurgical electric power fields and so forth ,or applied to measurement pressure of fluid medium in the machine.

Usually ,electric contact pressure gauge matches with relevant electrical apparatus,for instance,relay and contactor.

The instrument is consisted of measurement system,indicating system,electric contact parts system, case ,adjustment system,junction box(socket) and otherwise.

The principle is that under the conditions of medium pressue ,bourdon tube will show the measured value in the dial by gear wheel equipment . In the meanwhile ,the pointer of instrument will make dynamic contact touch or cut with static one (upper limits or lower limits),leading to the cut and turn-on of control system for the purpose of automatic control and alarm.

目录

型 号 Model	原 型 号 Original model	名 称 特 性 Name feature	索引页 Dage
YX;YXC	YX;YXC	普通电接点压力表 Normal electric contact pressure gauge	PD.01-2
YXH;YXHN	YXC-H; YXCN-H	不锈钢防腐 / 不锈钢耐震电接点压力表 Stainless steel corrosion-proof / Vibration-proof electric contact pressure gauge.	PD.01-6
YXA	YXCA	氨用电接点压力表 Ammoria electric contact pressure gauge.	PD.01-10
YX;YXC;YXH; YXHN;YXA		选型表 Table of type selec tion	PD.01.12
BXN	YPXCN	膜片式充油耐震微压电接点压力表 Capsule oil-filling vibration-proof low pressure electric contait gauge.	PD.01-13
YXDH;YXDHN	YXC-H; YXCN-H	不锈钢多接点式压力表 Stainless steel multrple contacts pressure gauge.	PD.01-16
选型表 Table of type selection			PD.01-19
量程范围规格代码表 Table of range code			PD.01-20



泳池专用差压表

YCB

PC

Differential pressure gauge for swimming pool

产品特性:

- 轴向
- 塑料外壳、铜内机
- 测压原件铍铜膜片
- 精度等级 5 %
- 测量规格 0-100KPa; 0-200KPa;
- 仪表连接 NPT1/8 ;NPT1/4
- 最大电压 24V,最大电流 5A

仪表型号标示 Instrument Type

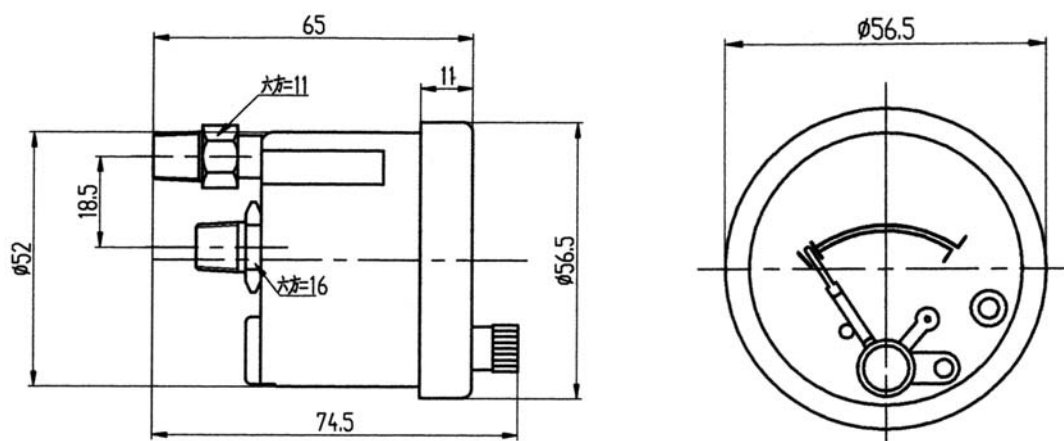
YCB-050. ZO. 103

Feature

- Back connection
- Plastic case brass internals
- Measurement element beryllium copper
- Accuracy 5%
- Range 0-100kpa; 0-200kpa.
- Connection NPT1/8;NPT1/4
- Crest voltage 24V, peak current 5A



几何尺寸 DIMENSIONS



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PC · 04

MODEL YCA / YCAN

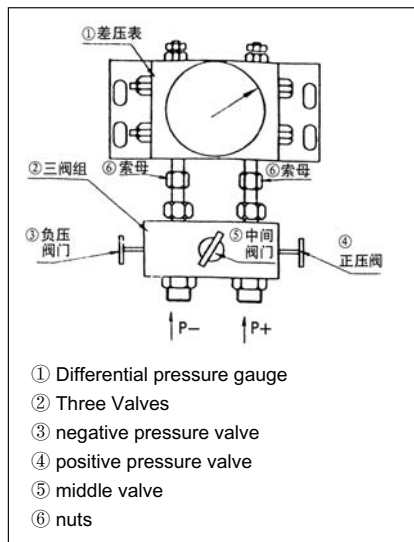
如何选型 HOW TO ORDER

型号代码 CODE	特性说明 CHARACTERISTICS						
Basic type 基本型号	YCA — (标准型) 双膜片式高静压差压表 (Standard stype) Double diaphragm differential pressure gauge for high steady YCAN — (充液耐震型) 双膜片式高静压差压表 (Vibration-proof type) Double diaphragm differential pressure gauge for high steady						
Diameter 外径	100 — Φ 100mm 150 — Φ 150mm						
Mounting 安装方式	AH — 径向后背板安装 Bottom connection with back mounting bracket GK — 管卡子安装 Pipe clamp mounting						
Design 设计代码	502 — 内卡式不锈钢外壳 Stainless steel case Inside bayonet						
Ranges 量程	K110 — 16KPa 请参看量程对照表 See range table						
Connection 连接螺纹	M20 — 20 × 1.5 QLA = 长尾螺纹连接 Capillary screw connection G12 — G1/2 QLB = 长尾法兰连接 Capillary flange connection Z12 — NPT1/2 QLD = 隔膜长尾法兰连接 (用于粘稠介质或特殊材质膜片) Connection with diaphragm Z14 — NPT1/4 TOO = 其他特殊要求的螺纹 Other requests						
Options 备选项	TPB — 非标准的度盘 Non-standard dial FFA — 一同装配三阀组 Combined with 3-way manifold FFB — 一同装配五阀组 Combined with 5-way manifold						

三阀组的安装、拆卸及使用方法

Three Valves mounting, disassembly and method of application

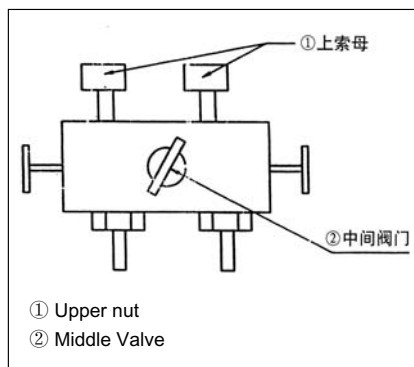
安装 Mounting



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螺母紧固。螺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,以免打坏差压表。)
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. Use differential gauge must fit out three valves in order to insure it's normal working.
2. The differential gauge and there valves are connected by two nuts tightly, nuts and socket are with PTFE spacer.
3. Open the middle valve, negative pressure valve and positive pressure valve before use the differential gauge, when either of P- or P+ input, the middle valve can have equilibrium activity, and avoid to damage the gauge.
4. When P- and P+ normal input the three valves, the close the middle valve, to make the gauge works right. If the gauge's pointer is not at zero, please adjust it to zero (note must use soap water to inspect the seal, if has leak, please tight.)
5. The differential pressure gauge has back plate mounting (see the chart) and standpipe fixed (the pipe with clamp).

拆卸 Disassembly



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(卸两个螺母)注意用板子卡住差压表的接头,只拆三阀组上的上螺母。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螺母慢慢松开把差压表取下。(注意一定要两个螺母同时松)
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(新接口用肥皂水试漏)。
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)

1. Open the middle valve, negative pressure valve and positive pressure valve (negative pressure valve and positive pressure valve original state is open).

2. Close these two input valves (on the main pipe of equipment).
3. Discharge instrument (discharge two nuts), use spanner lock the socket of gauge, and just discharge the nuts on three valves. Discharge pressure, then put off the nuts and clamp.
4. Screw down the two nuts and take down the differential pressure gauge (note screw down these two nuts together)
5. Then install the new gauge (same as mounting method), change two spacers to ensure it will not leak.
6. Fix the clamp.
7. Open main switch (two), then close the middle valve. (use soap water to inspect leak)
8. Two minutes later, set the pointer at zero (if it does not out off zero, you needn't to adjust).

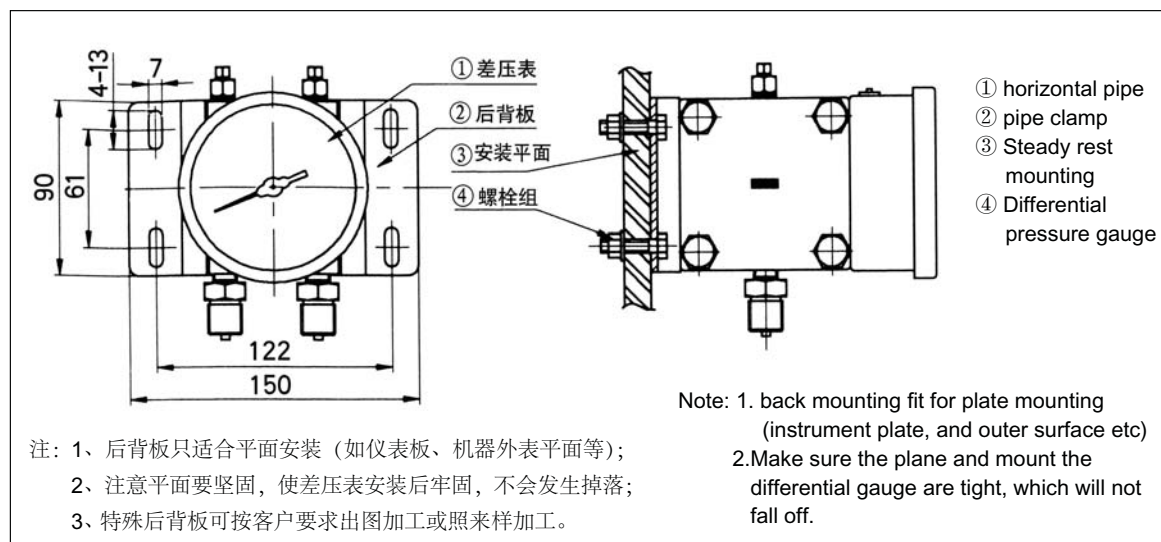
注: 在装表或卸表时, 必须保证中间阀门和 P+、P- 两个阀门全部开启, 以确保仪表能正常使用。



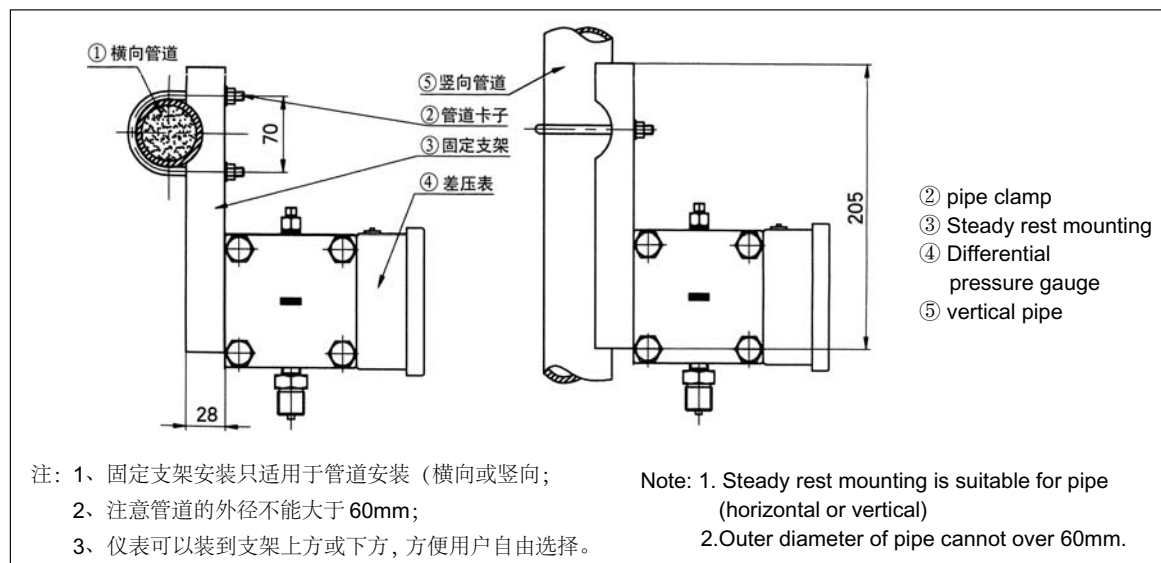
MODEL YCA / YCAN

差压表安装几何尺寸 Differential pressure gauges dimensions

(一) 后背板安装 Back mounting



(二) 固定支架安装 Steady rest mounting



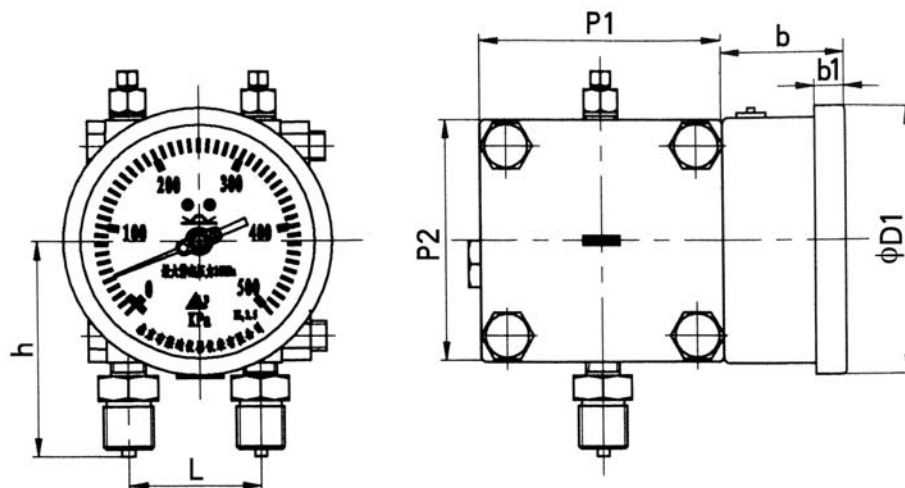
量程范围规格代码表 TABLE OF RANGES

选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
K110	16KPa	K192	100 KPa	K220	400KPa
K150	40KPa	K196	160 KPa	K240	600KPa
K170	60KPa	K200	250KPa	以上量程为常见量程	

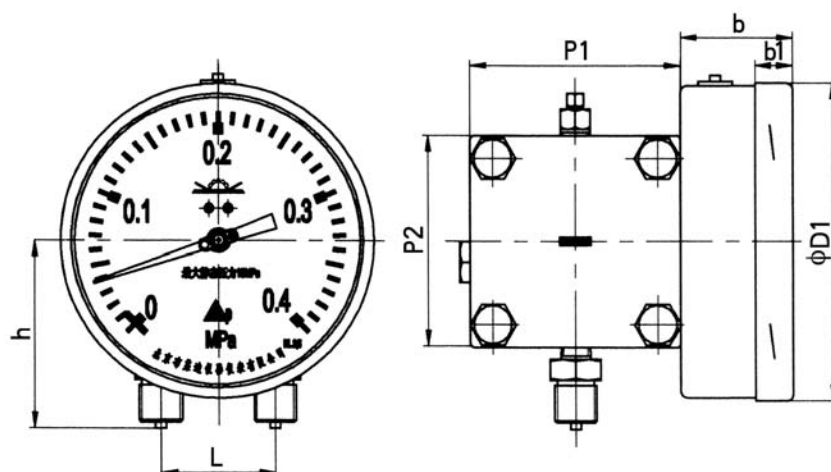
以上量程以外规格另行商定 other rang please con snct with us

差压表外形几何尺寸 DIMENSIONS

DS100



DS150



型 号 Type	几何尺寸 (mm)						
	fl D1	b1	b	P1P2	L	h	
fl 100	110	13	51.5	100	54	100	≈ 91
fl 150	149	18	53.5				

注：1、差压表的接头可选螺纹为 M20 × 1.5G1/2 及 NPT1/2，如客户有特殊螺纹要求，需要先进行通知；

Note: Differential pressure gauges connection is optional M20X1.5G1/2 and NPT1/2, if you have special request, please consult with us.



MODEL YCA / YCAN

技术参数

执行标准: Q/YG BBI009-2005

精度: 1.6%, 2.5% (高于 0.1MPa 可选 1.6 级)

表玻璃: 双层安全玻璃

指针: 铝, 黑色, 可调零

表头形式: 外径 100, 150 密闭型 干表
(充油 YCAN 可选)

防护等级: IP65

膜片材质: 316L (负压膜片) 316Ti (正压膜片)

过程连接: 316 不锈钢

表壳材质: 304 不锈钢

机芯材质: 304 不锈钢

防爆塞和充油塞材质: 耐油橡胶

静压: 盘面满量程

动压: $0.7 \times$ 满量程

过压保护: 双边耐压达到 10 MPa

使用温度: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

温度漂移: 随介质温度每变化 $\pm 10^{\circ}\text{C}$,
指针指示位置漂移 $\pm 0.8\%$

仪表量程: 16KPa、25KPa、40KPa……600kPa
(见规格代码表)

表连接: M20 $\times$ 1.5 G1/2" NPT1/2,
NPT1/4 内螺纹 (不配三阀组时) 另外还
可以成长尾法兰连接、长尾螺纹连接、
隔膜长尾法兰连接 (主要用于粘稠介质或
特殊材料膜片)。

表盘: 铝, 白地黑字
(表盘可以根据用户要求设计为非标形式)
仪表应配三阀组或五阀组使用。

表壳充油: YCAN 充填硅油; YCA 为干式

Oil filling: YCAN Silicon filled; type YCA is dry.

FUNCTIONAL FEATURES

Executive standard: Q/YG BBI009-2005

Accuracy: 1.6%, 2.5%

Window: laminated safe glass

Pointer: aluminium, black, zero adjustable

Case: DS100, 150 airtight type dry gauge
(oil filled YCAN available)

Protection: IP65

Diaphragm material: 316L (for negative pressure)
316Ti (for positive pressure)

Process connection: 316

Case material: 304SS

Movement: stainless steel 304

The material of blow out vent and filling plug:
oil resistant rubber

Steady: full scale value

Fluctuating: $0.7 \times$ FS

Overpressure protection: both ends support 10 MPa

Operate temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

Thermal drift: $\pm 0.8\%$ every $\pm 10^{\circ}\text{C}$ of media
temperature

Range: 16KPa、25KPa、40KPa……600KPa
(detail in range table)

Connection: M20 $\times$ 1.5 G1/2" NPT1/2, NPT1/4
thread inside (without 3-way manifold)
or capillary connection, capillary threaded
connection, diaphragm capillary
flanged connection (mainly used in
viscous medium or diaphragm in special
materials).

Dial: aluminium, white with black letters
(can be made as required)

The instrument should be used with 3-way manifold
group or 5-way manifold.

双膜片式高静压差压表

Double diaphragm differential pressure gauge
for high steady

YCA
YCAN

YCA 标准型 Standard style

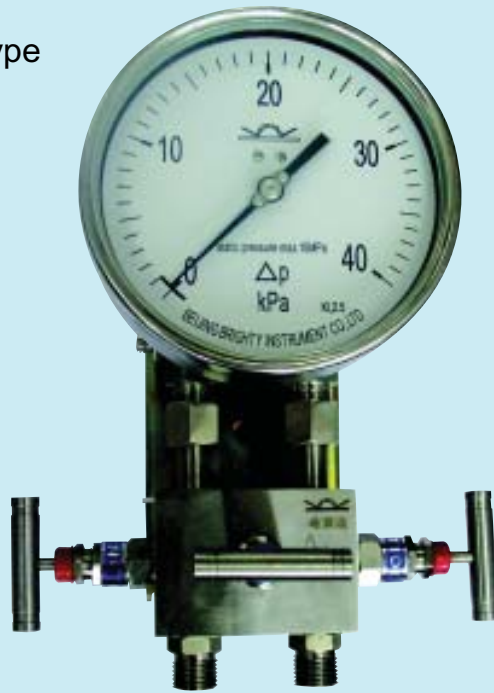
YCAN 充液耐震型 Vibration-proof type

仪表特性

- 耐压 10MPa
- 耐震型
- 长尾隔膜
- 各种安装形式

Feature

- Withstanding pressure 10MPa
- Vibration-proof type
- Capillary diaphragm
- Multifold mounting type



产品简介

双膜片式高静压差压表主要用于过滤器的正负压力端，液体灌液位、泵出入口、输油管线、输气管线和加压泵站等场合的压力差的测量。本仪表具有较高的耐压性能，并适合于在有腐蚀性的环境中使用。

PRODUCT OVERVIEW

Mainly used for measuring the difference between two pressure values, in the plus and minus ends of filter, the level of liquid, the entrance and exit of pump, oil pipeline, gas pipeline and high pressure pump station and so on. It is excellent while overpressure take place, also suitable for corrosion environments.

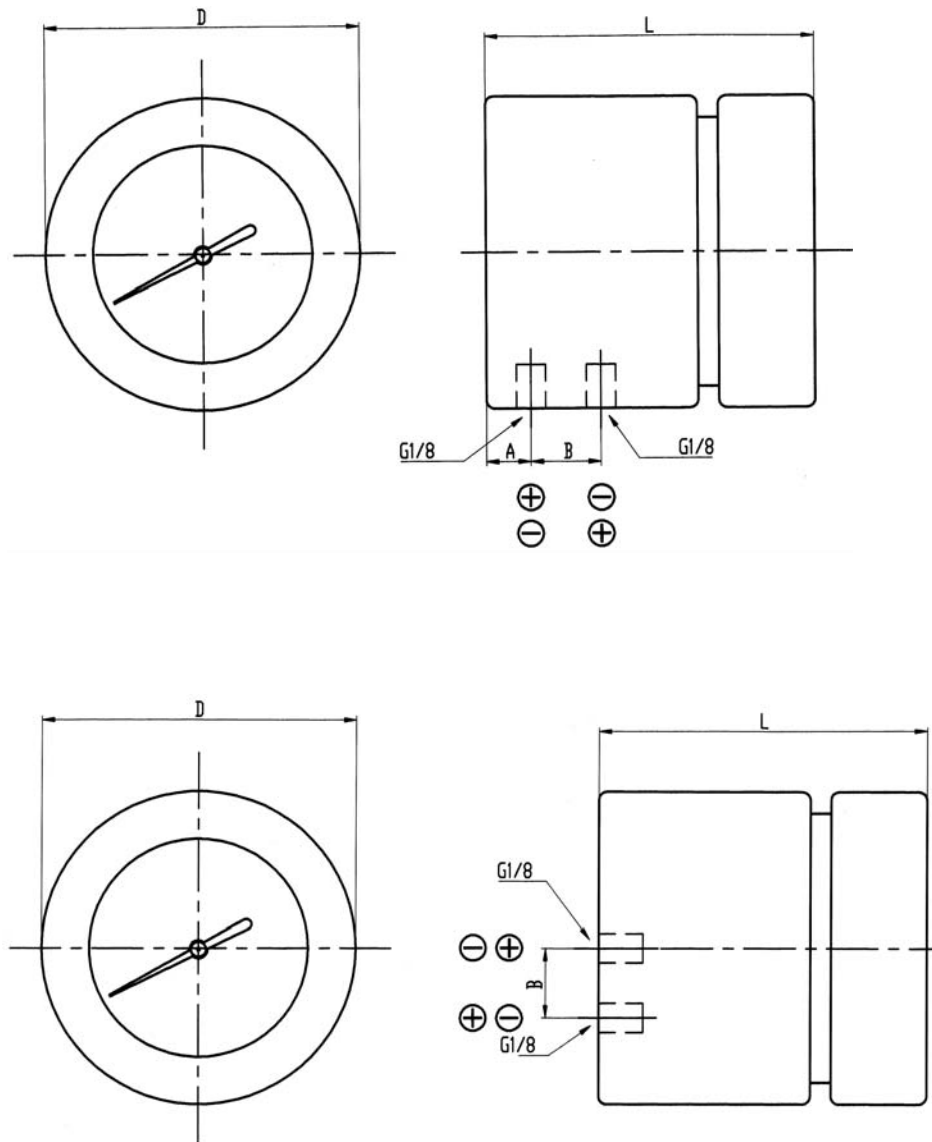


北京布莱迪仪器仪表有限公司

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MODEL YCD

几何尺寸 DIMENSIONS



主要技术参数

Technical Specifications

仪表公称直径	70mm; 100mm	Outer Diameter: 70mm; 100mm
精度等级	1.6%, 2.5%	Accuracy class: 1.6%, 2.5%
防护等级	IP65	Protection Class: IP65
环境温度	-20℃ ~ 60℃	Ambient Temperature: -20℃-60℃
介质温度	<60℃	Medium Temperature: <60℃
仪表度盘	白色铝盘体, 黑色刻度读数	Instrument dial: white aluminium dial, black graduation.
仪表指针	铝黑色指针	Pointer: black aluminium
仪表玻璃	单层厚 10mm 平板玻璃	Window: 10mm plain glass
仪表外壳	铸铝黑色	Case: casting aluminium, black
仪表连接	铝 2XNPT1/8Female 或 2XG1/8Female 径向或轴向	Connection: aluminium 2XNPT1/8Femal or G1/8Femal, bottom or black connection.
仪表机芯	铜合金	Movement: copper alloy

测压原件形式及测压量程

Measurement Element type and range

测压元件 Measurement Element	最大静压 Maximum static pressure	差压量程 Differential pressure range
0~60KPa 膜盒式测压元件 capsule	16bar	10KPa, 16KPa.....60KPa
100KPa~1600KPa 波登管式元件 bourdon	16bar	100KPa, 160KPa.....1600KPa



紧密型结构 70/100 差压表

YCD

Compact construction 70/100 differential pressure gauge

产品展示

Products Introduction

型号代码:

Type code:

YCD-070. AO. 404

YCD-100. AO. 404



径向直接安装

0-60kPa 为膜盒式

100kPa~1600kPa 为波登管式

Back connection mounting

0-60kPa capsule

100kPa-1600kPa bourdon tube

型号代码:

Type code:

YCD-070. ZO. 404

YCD-100. ZO. 404



轴向直接安装

0-60KPa 为膜合式

100KPa~1600KPa 为波登管式

Back connection mounting

0-60kPa capsule

100kPa-1600kPa bourdon tube

产品简介

紧密型结构 70/100 差压表是高静压及低量程应用的理想选择, (如气体过滤器) 用于测量对铜合金无腐蚀且较洁净气体的微小压力差。

PRODUCT OVERVIEW

Compact construction 70/100 differential pressure gauges are suitable for high static pressure (air filter), and measure the low pressure of air which clean and no corrosion to copper alloy.

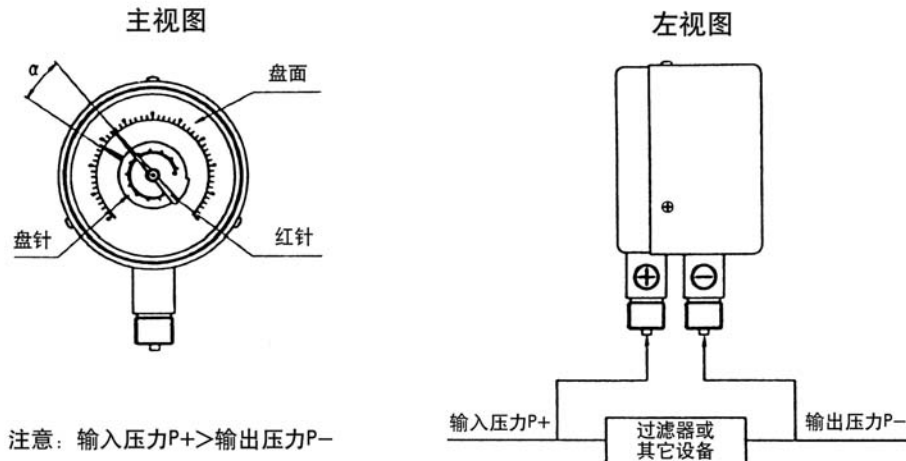
如何选型 HOW TO ORDER

型号代码 CODE	特性说明 CHARACTERISTICS						
Basic type 基本型号	YCS — 普通型双波登管式差压表 (Standard type) Double bourdon tubes differential pressure gauge						
	YCSF — 防腐型双波登管式差压表 (Corrosion-proof type) Double bourdon tubes differential pressure gauge						
Diameter 外径	100 — Φ 100mm						
Mounting 安装方式	AO — 径向直接安装 Under mounting AT — 径向前边安装 Under mounting with front flange AH — 径向后边安装 Under mounting with back flange						
Design 设计代码	504 — 不锈钢外壳 / 双波登管式 Stainless steel case/double bourdon tubes						
Ranges 量程	M040 — 0.16MPa 请参看量程代码表 See range table						
Connection 连接螺纹	M20 — 20×1.5 T00 — 其它特殊要求的螺纹 Other requests						
Options 备选项	SBD — 安装全双层玻璃 Multilayer glass	SY1 — 配长尾联接 (螺纹)					
	TPB — 特殊要求的表盘 Special dial	H 系列 + SY1 — 化学密封隔膜配长尾联接					
	TYO — 用于氧环境 Used in oxygen environment	SNR — 蒙乃尔膜片					
	FWP — 不锈钢位号牌 Stainless steel label	SSF — 四氟膜片					
		STI — Ti 片					
		SDA — 钽膜片					



产品安装及使用说明 MOUNTING AND OPERATING INSTRUCTION

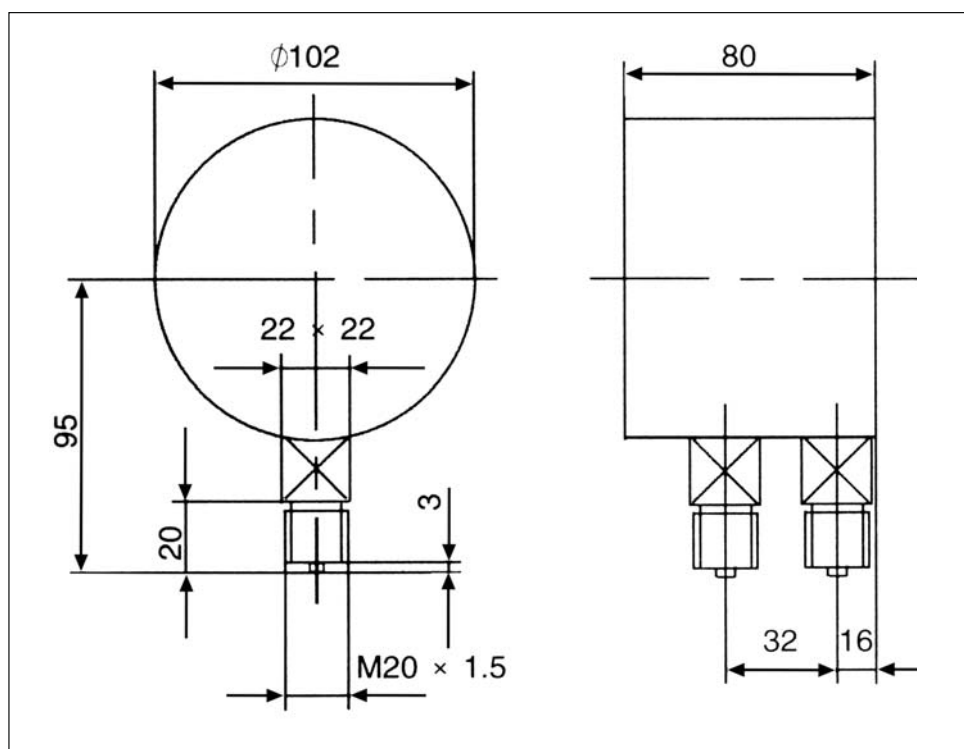
产品安装示意图: SKETCH MAP OF MOUNTING



产品使用说明 OPERATING INSTRUCTION

- ◆ 盘面的最大刻度值即为最大耐压
- ◆ 建议使用的 ΔP (差压值 $=P+ - P-$) 为盘面的 $1/2 \sim 1/3$ 为最佳。再小了就不好读点。
 ΔP 一般不能小于 $1/10$ 的全量程。
- ◆ 红针指示为正压压力 (输入压力为 $P+$); 盘针指示为负压压力 (输出压力 $P-$)。盘针上的刻度可以和红针形成夹角 α 直接读数 (从盘针上直接看刻度), 也可以单独用盘针在表盘上的示值与红针在表盘上的示值进行计算得出差压值 $\Delta P = P+ - P-$
- ◆ 介质为气体或液体, 建议用在室内, 使用温度为 $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- ◆ 一般最小量程做到 0.16MPa , 如需 0.1MPa , 可做到 2.5 级
- ◆ 安装时带 $\oplus$ 号接头接输入压力 $P+$; 带 $\ominus$ 号接输出压力 $P-$
- ◆ The highest indicated value is the highest pressure permitted.
- ◆ We advice using the $1/2 \sim 1/3$ of the range as ΔP . it is convenient to see if it is too small. ΔP is not low than $1/10$ of full scale value.
- ◆ The red pointer shows the plus pressure (the pressure input); the dial pointer shows the minus pressure (the pressure output).
- ◆ The value could be saw by the angle α between the red and dial pointers (see directly on the dial pointer). And we can compute the difference using the pointed values of the red pointer and the dial pointer ($\Delta P = P+ - P-$).
- ◆ It is suitable to measure gas and liquid medium, suggested in room in $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- ◆ The general lowest range is 0.16MPa . it is could be made to 2.5% if 0.11MPa requested.
- ◆ While mounting, the $\oplus$ end should be deployed with pressure input terminal and the $\ominus$ end should be deployed

几何尺寸 DIMENSIONS



量程 RANGES

量程范围规格代码表 TABLE OF RANGES					
选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M030	0.1MPa	M100	0.6MPa	M160	2.5MPa
M040	0.16MPa	M120	1MPa	M180	4MPa
M060	0.25MPa	M140	1.6MPa	M200	6MPa
M080	0.4MPa				

注: 0.1MPa精度 2.5 级



MODEL YCS / YCSH

YCS 主要技术参数

执行标准: GB/T1226-2001
精度: 1.5 级
测量范围: 0.16、0.25……6MPa、10MPa
环境温度: -20~+60℃
介质温度: 小于 60℃
安装形式: 径向直接安装
(前带边及后带边可选)
过程连接: M20 × 1.5 螺纹 (其他螺纹可选)
防护等级: IP45
接头材质: 铜合金
波登管材质: 铜合金
焊接: 锡焊
表壳材质: 黑钢壳 (喷塑)
密封圈、防爆塞材质: 耐油橡胶
表玻璃: 3mm 平板玻璃
(有机玻璃、双层安全玻璃可选)
机芯: 铜合金
指针: 铝, 黑色和红色
表盘: 铝, 白地黑字 (特殊要求表盘可选)

YCS (YC) FUNCTIONAL FEATURES

Executive standard: GB/T1226-2001
Accuracy: 1.5%
Ranges: 0.16、0.25……6MPa
Ambient temperature: -20~+60℃
Media temperature: less than 60℃
Mounting: bottom directly mounting
(with front or back flange available)
Process connection: M20 × 1.5 (Other screw as request)
Protection class: IP45
Connection material: Copper alloy
Bourdon tube: Copper alloy
Welding: Tin-welding
Case material: Black steel (enameled)
Sealing circle and blow out vent material: Rubber
Window: 3mm plain glass
(Organic or double layers available)
Movement: Copper alloy
Pointer: Aluminium, black and red color
Dial: Aluminium, white with black letters (Special dial available)

YCSH 主要技术参数

接头材质: 316
波登管材质: 316
焊接: 氩弧焊
机芯: 不锈钢
介质温度: < 70℃
表壳材质: 304 不锈钢
其他同 711

YCSH (YCF) FUNCTIONAL FEATURES

Connection material: 316
Bourdon tube: 316
Welding: AISI 316 TIG Argonarc
Movement: Stainless Steel
Media temperature: 100℃
Others as 711

双波登管式差压表

Double bourdon tubes differential pressure gauge

YCS

PC

YCSH

YCS-100 (YC-100)

普通型 Standard type

双波登管式差压表 Double bourdon tubes differential pressure gauge

YCSH-100 (YC-F100)

防腐型 Corrosion-proof type

双波登管式差压表 Double bourdon tubes differential pressure gauge



产品简介

双针双管差压表适用于对两个相同或不同压力,进行测量并可对两个测量压力及二压力差值分别指示。产品分为YCS普通型和YCSH防腐型。YCS普通型适用于对无腐蚀性介质的测量。YCSH防腐型可在具有腐蚀性介质及环境中使用。

仪表由两套各自独立的测量系统和指示装置组成。测量压力通过测压元件的弹性变形,通过两个测压元件(弹簧管)之末端各自产生相应的位移,借助于拉杆传动机构的传动予以放大,由固定于齿轮轴上的红、黑指针将所测值分别指示在度盘上,同时中间小盘显示出二压力之差值。

PRODUCT OVERVIEW

Double Bourdon System Differential Pressure Gauges are designed to measure difference between 2 pressures. 2 models available: YCS General available and YCSH Corrosion-Proof. The YCS type is suitable to measuring the un-corrode medium and the YCSH type could be used in corrode environments.

The instrument has 2 independent measuring systems. The measured pressure deflects the elastic elements, displacements then take place to actuate gear mechanisms through linkages to carry 2 pointers traveling over instrument dial, and an auxiliary dial shows the pressure difference.



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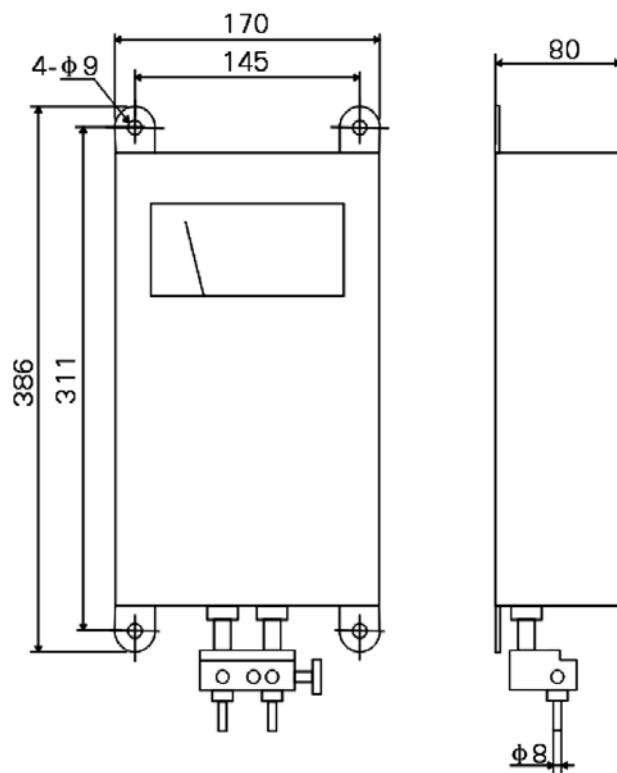
如何选型 HOW TO ORDER

	型号代码 CODE	特性说明 CHARACTERISTICS						
Basic type 基本型号	YE	膜盒微压表 Low differential pressure capsule gauges						
Diameter 外径	330	外壳对角线长度 330mm Diagonal length of Case 330mm						
Mounting 安装方式	FG	矩形背后安装 Rectangle Back Mount						
Design 设计代码	200	铁外壳螺钉上紧式 Screw tight iron case						
	500	不锈钢外壳螺钉上紧式 Screw tight steel case						
Ranges 量程规格	A105	250Pa	A125	1000Pa	A170	4000Pa		
	A225	16000Pa	A110	400Pa	A114	1600Pa		
	M190	6000Pa	A240	25000Pa	A120	600Pa		
	M155	2500Pa	A210	10000Pa				
Connection 连接螺纹	F00	风咀连接 Barb Connection						
	M14	M14 × 1.5 螺纹连接 M 1 4 X 1 .5 Thread connection						



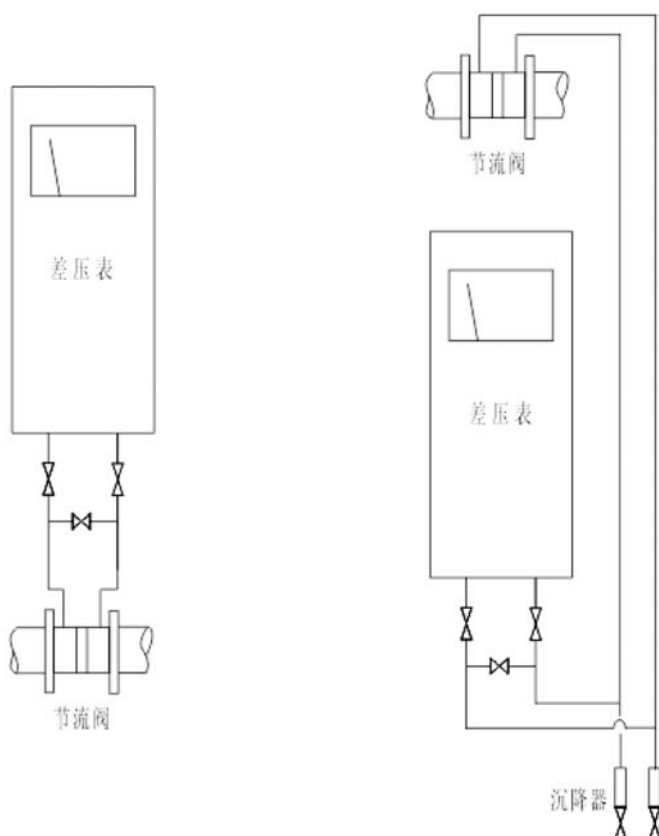
外型安装孔尺寸图 Mounting hole

单位: mm



仪表与节流装置的位置 The location of instrument and throttling set

单位: mm



MODEL YE-330.FG.200

差压 Different Pressure	单位 Unit	规格 Specification
	Pa	250、400、600、1000、1600、2500、4000、6000、10000、16000、25000
流量 Flow	单位 Unit	规格 Specification
	NM³/h	4, 5, 8, 10, 16, 20, 25, 32, 63, 125 × 10 ⁿ (n 为整数, 正、负或零) (n is round number, positive, negative or zero)

- 6、密封性试验：1.5 倍的工作压力历时 10 分钟不得渗漏（双边受压）
- 7、刻度弧长：110mm
- 8、仪表重量：约 3 公斤
- 6、Closed-chamber Test: No leak for 10 mins 1.5 times operation pressure (Pressure at both sides)
- 7、Arc of scale: 110mm
- 8、Weight of Instrument: About 3 Kg

结构及工作原理：

仪表由压力平衡阀、膜盒腔部分、指示部分、机械传动部分组成。

仪表的工作原理是三阀组将高压和低压气体分别引入密封膜盒腔和弹性元件膜盒内,使膜盒内外受到不同的压力,从而得出压力差,即△P。在△P 的作用下使膜盒的自由端产生一个正比于差压值的位移量,该位移借助连杆并经连杆传动机构的传动及放大作用,由固定于指针轴的指针将被测差压值在刻度板上指示出来。如单独测量正压或负压则通过平衡阀关闭和接通连接来完成（后附说明）

Structure and operation principle：

The instrument is composed of equilibrated valve、capsule cavity, indication part and mechanical drive part. The operation principle of the instrument is to lead low pressure and high pressure gas into airproof capsule cavity and elastic-element capsule by three valve manifold, to transmit different pressure to the inside and outside of capsule for pressure difference-△P。The △P have the free end of the capsule shift proportional to the pressure difference. The shift driven and magnified by link can move the pointer on the shaft, and indicate the pressure difference on the scale board. Positive and negative pressure can be measured by turn on and turnoff the balanced valve. (Explanation see below)

YE-330.FG.200 矩型膜盒差压指示仪

Rectangle capsule differential pressure indicator

产品简述:

YE-330.FG.200矩型膜盒差压指示仪是用来测量非腐蚀性气体的差压值、压力值及真空值的;配合节流装置也可测量管路中气体的流量。仪表有流量和差压两种刻度可按需要选用。该仪表可挂式安装,具有体积小,重量轻,工作可靠,使用方便等特点。

Introduction:

YE-330.FG.200 Rectangle capsule differential pressure indicator is designed to measure the pressure, differential pressure and vacuum of non-corrosive gas; It can measure the gas flow of the pipe with throttling set. The scale option is flow and differential pressure. Wall-hung instrument are in small size, light weight, reliable, easy to use.



主要技术指标:

- 1、型号: 壁挂式
- 2、工作环境: 温度 $+5^{\circ}\text{C} \sim +50^{\circ}\text{C}$ 相对湿度不大于85%, 无强烈振动, 无腐蚀性气体的场合。
- 3、工作压力: $\leq 0.1\text{MPa}$
- 4、精度等级: 2.5级
- 5、测量范围:

Specification:

- 1、Model: Wall-Mounted
- 2、Ambient temperature: Temperature $+5^{\circ}\text{C} \sim +50^{\circ}\text{C}$, relative temperature less than 85%, there is no violent vibration and corrosive gas in the environment.
- 3、Operation Pressure: $\leq 0.1\text{Mpa}$
- 4、Accuracy: Class 2.5
- 5、Range:

如何选型 HOW TO ORDER

型号代码 Code	特性说明 Introduction							
基本型号	YEY — 一般标准型医用膜盒压力表 Standard medical capsule gauge YE — 一般标准型膜盒压力表 Standard capsule gauge YEF — 不锈钢防腐型膜盒压力表 Stainless steel corrosion-proof capsule gauge YEN — 一般标准充油耐震型膜盒压力表 Standard glycerin filled vibration-proof capsule gauge YEFN — 不锈钢充油耐震型膜盒压力表 Stainless steel glycerin filled vibration-proof capsule gauge							
外径	050 — ϕ 50mm 075 — ϕ 75mm 120 — ϕ 120mm 060 — ϕ 60mm 080 — ϕ 80mm 150 — ϕ 150mm 063 — ϕ 63mm 090 — ϕ 90mm 160 — ϕ 160mm 070 — ϕ 70mm 100 — ϕ 100mm							
安装方式	AO — 径向直接安装 Bottom directly mounting AT — 径向前边安装 Bottom mounting AH — 径向后背板安装 Bottom back plate mounting ZO — 中轴向直接安装 Center back directly mounting ZT — 中轴向嵌装 Center back 嵌装 ZK — 轴向卡子安装 Back connection clamp mounting							
设计代码	201 — 铁外壳、内卡式 Iron case, inner bayonet 501 — 钢外壳、内卡式 Iron case, inner bayonet 531 — 钢焊接外壳、内卡式 Steel welded case, inner bayonet 202 — 铁外壳、外卡式 Iron case outer bayonet 502 — 钢外壳、外卡式 Steel case outer bayonet 203 — 铁壳旋压密封 Iron case screw in type sealed 503 — 钢壳旋压密封 Steel case screw in type 000 — 医用特殊型 latic 513 — 2 件式钢外壳旋压密封 latic		104 塑料外壳、旋紧式 plastic case, screw in type 204 铁外壳、旋紧式 Iron case, screw in type 504 钢外壳、旋紧式 Steel case screw in type 205 铁外壳、压紧式 Iron case pressed type 505 钢外壳、压紧式 Steel case pressed type 105 塑料外壳、压紧式 Plastic case pressed type 215 2 件式铁外壳压紧式 latic 200 铁外壳螺钉上紧式 latic					
量程	K090 — 10kPa (其它规格详见量程代码表 other specs please see range code table)							
连接螺纹	M14 — M14x1.5 M20 — M20x1.5 G12 — G1/2 Z12 — NPT1/2	G14 — G1/4 G38 — G3/8 R38 — ZG3/8 Z38 — NPT3/8	F00 — 风咀接头 nozzle connection K00 — 快装接头 T00 — 其它特殊连接 other special connection N — 内螺纹 female thread					
备选项	GKB — 抛光处理 polished SBB — 有机玻璃 organic glass SKA — 碳钢外壳 carbon steel case SKB — SUS304 外壳 case BDA — 1 级精度 accuracy 1%		TPB — 特殊仪表盘面 special dial PDW — 定位装置 set device PGX — 内置过压保护 with overpressure protection PG0 — 取消过压保护 without overpressure protection POO — 不要调零装置 without zero adjustment					



常用微压表量程代码表

量程范围规格代码表 TABLE OF RANGES (其它量程代码略)					
选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
K005	0.25 KPa	K580	-6 KPa	b590	-160 mbar
K007	0.5 KPa	K590	-10 KPa	b600	-200 mbar
K010	1 KPa	K600	-15 KPa	b610	-250 mbar
K020	1.6 KPa	K610	-16 KPa	b620	-400 mbar
K030	2 KPa	K620	-20 KPa	b630	-500 mbar
K040	2.5 KPa	K630	-25 KPa	h040	250 mm H2O
K060	4 KPa	K640	-30 KPa	h050	400 mm H2O
K070	5 KPa	K650	-40 KPa	h060	500 mm H2O
K080	6 KPa	K660	-50 KPa	h070	600 mm H2O
K090	10 KPa	K670	-60 KPa	h080	1000 mm H2O
K100	15 KPa	K680	-100 KPa	h090	1600 mm H2O
K110	16 KPa	b040	25 mbar	h100	200 mm H2O
K120	20 KPa	b050	40 mbar	h110	2500 mm H2O
K130	25 KPa	b060	50 mbar	h120	4000 mm H2O
K140	30 KPa	b070	60 mbar	h130	5000 mm H2O
K150	40 KPa	b080	100 mbar	h140	6000 mm H2O
K160	50 KPa	b090	160 mbar	h540	-250 mm H2O
K170	60 KPa	b100	200 mbar	h550	-400 mm H2O
K200	100 KPa	b110	250 mbar	h560	-500 mm H2O
K500	-0.25 KPa	b120	400 mbar	h570	-600 mm H2O
K510	-0.5 KPa	b130	500 mbar	h580	-1000 mm H2O
K520	-1 KPa	b140	600 mbar	h590	-1600 mm H2O
K530	-2 KPa	b540	-25 mbar	h600	-200 mm H2O
K540	-2.5 KPa	b550	-40 mbar	h610	-2500 mm H2O
K550	-3 KPa	b560	-50 mbar	h620	-4000 mm H2O
K560	-4 KPa	b570	-60 mbar	h630	-5000 mm H2O
K570	-5 KPa	b580	-100 mbar		

50mm 斜轴向塑壳压紧式单膜盒医用微表

产品特性:

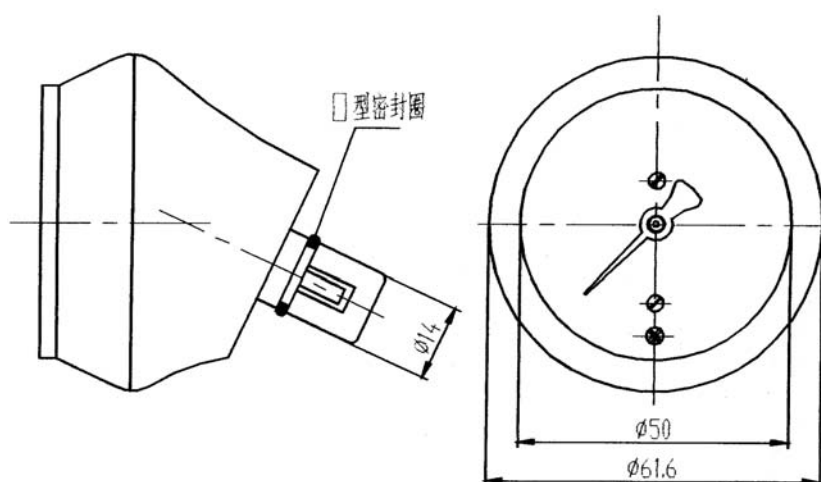
- $\phi 50\text{mm}$ 斜轴向结构, 有机玻璃表蒙, 可方便连接 $\phi 14$ 快装式一体设计
- 黑色塑料卡式外壳, 铜内机
- 测压元件为单片铜膜盒
- 精度等级: 2.5
- 测量范围: $-20\sim 100\text{cmH}_2\text{O}$; $0\sim 10\text{kPa}$; $-4\sim 6\text{kPa}$

仪表型号标示 Instrument Type
YEY050 OO 109



几何尺寸 DIMENSIONS

单位 Unit (mm)



北京布莱迪仪器仪表有限公司

PM · 06 -9

φ50mm 轴向滚边式单膜盒医用微压表

产品特性:

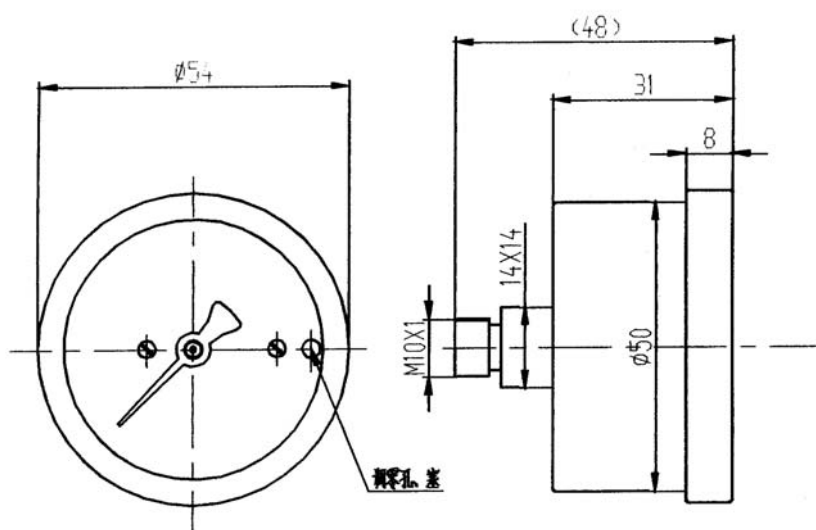
- φ50mm 轴向结构, 乳白色衬圈, 有机玻璃表蒙, 可方便调零, 本色不锈钢罩旋压密封设计
- 本色不锈钢外壳, 铜内机
- 测压元件为单片铜膜盒
- 精度等级: 2.5
- 测量范围: -20~100cmH₂O; 0-10kPa; -4~6kPa
- 铜合金 G1/4, M14 × 1.5, M10 × 1 等螺纹联接 仪表型号标示 YE050 ZO 503

仪表型号标示 Instruments Type
YE050 ZO 503



几何尺寸 DIMENSIONS

单位 Unit (mm)



63 轴向医用真空表

63mm back connection vacuum pressure gauge for medical

产品特性:

- 63 轴向结构,
- 铜内机
- 测压元件为铜合金双片膜盒
- 精度等级: 3: 2: 3
- 测量范围: -200mmHg、-300mmHg、-65mmHg
- 铜合金圆柱气咀双槽接头快装式
- 铝支架无外壳安装形式 (钢外壳开式可选)
- -760mmHg 过压保护

仪表型号标示 Instrument Type
YEY-063.ZO.000

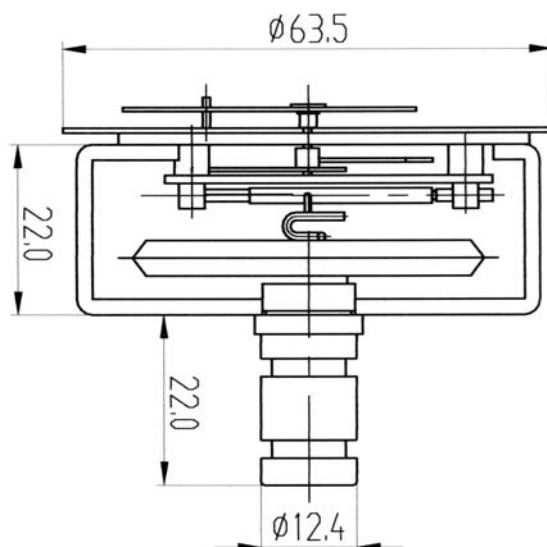


Features:

- 63mm back connection
- Brass internals
- Measurement elements: copper alloy double capsules
- Accuracy class: 3:2:3
- Range: -200mmHg, -300mmHg, -65mmHg
- Copper alloy column nozzle double slit connection
- Aluminium bracket, case mounting (steel case optional)
- -760mmHg Overpressure protection

几何尺寸 DIMENSIONS

单位 Unit (mm)



北京布莱迪仪器仪表有限公司

PM · 06 -7

63 钢壳卡子安装膜盒医用微压表

63mm steel case, clamp mounting,
low-pressure capsule gauges

产品特性:

- 轴向结构, 旋压密封罩壳设计形式
- 钢本色外壳、铜内机
- 测压元件为单片膜盒
- 精度等级: 1.5, 2.5
- 测量范围: -2~10KPa
- 仪表带有微动调零装置
- 铜合金气咀接头或铜合金电镀 G1/4 螺纹接头

仪表型号标示 Instruments Type
YEY-063.ZK.513



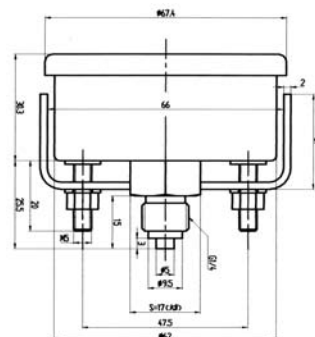
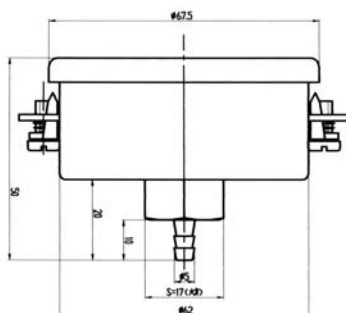
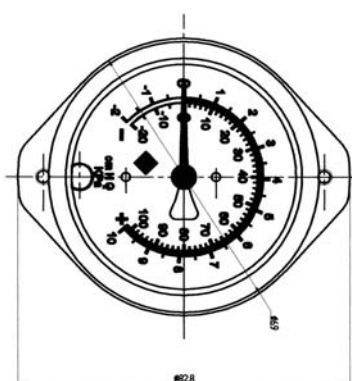
Features:

- Back connection, screw in bezel
- Steel nature color case, brass internals.
- Accuracy class: 1.5, 2.5
- Range: -2 to 10Dpa
- With micro-adjustment setting
- Copper alloy nozzle connection or Copper alloy plated nozzle connection G1/4 thread



几何尺寸 DIMENSIONS

单位 Unit (mm)



PM · 06 -6

BEIJING BRIGHTY INSTRUMENT CO.,LTD. **BLD**

50 轴向压紧式单膜盒医用微压表

63mm back connection, pressed bezel low-pressure capsule gauges for medical

产品特性:

- 50 轴向结构, 塑料罩压紧式设计
- 黑色塑料外壳、铜内机
- 测压元件为单片膜盒
- 精度等级: 2.5%
- 测量范围: -2~10kPa
- 铜合金电镀快装式气阻接头和 G1/4, M14x1.5 螺纹联接
- 可加工轴向和径向两种
- 可配快装接头 (带开关取下表自动关闭气路) 装上表即可通气。

仪表型号标示 Instrument Type
YEY-050.AO.105

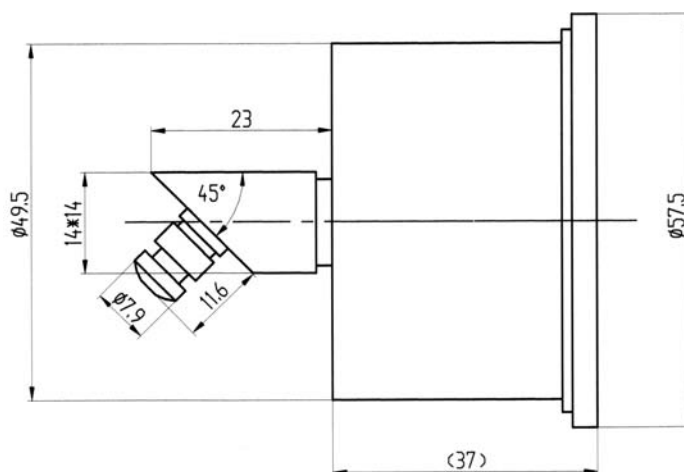
Features:

- 50mm back connection, plastic pressed case
- Black plastic case, brass internals
- Measurement Element: import capsule
- Accuracy class: 2.5%
- Range: -2 to 10kPa
- Copper alloy plated ready package nozzle connection
- It can be assembled with the quick-installing connection part which is with a switch to control the gas circuit. It will be shut off by taking out the gauge and open up by installing it.



几何尺寸 DIMENSIONS

单位 Unit (mm)



北京布莱迪仪器仪表有限公司

PM · 06 -5

63 径向压紧式膜盒医用微压表

63mm bottom connection, pressed bezel low-pressure capsule gauges for medical

产品特性:

- 径向结构, 压紧式罩壳设计形式
- 铁喷灰塑外壳、铜内机
- 测压元件为单片膜盒
- 精度等级: 2.5
- 测量范围: -200mmHg
- 铜合金电镀气咀接头 (专用气咀卡子安装
也可加工成螺纹联接)
- 铝制渐进色度盘

Feature:

- Bottom connection, pressed bezel
- Iron case, gray enameled, brass internals.
- Measurement Element: import capsule
- Accuracy class: 2.5
- Range: -200mmH₂O
- With micro-adjustment setting
- Copper alloy nozzle connection
- Aluminium dial shallow gradual color dial

仪表型号标示 Instrument Type
YEY-063.AO.205



几何尺寸 DIMENSIONS

单位 Unit (mm)

63 轴向罩壳压紧式膜盒医用微压表

63mm back connection, pressed bezel low-pressure capsule gauges for medical

产品特性:

- 63 轴向, 有机玻璃罩压紧式设计形式
- 铁焊钉喷黑塑外壳、铜内机
- 测压元件为双片膜盒
- 精度等级: 2.5
- 测量范围: 0~60cmH₂O
- 铜合金气咀式接头连接

Features:

- 63mm back connection, organic glass window, pressed bezel
- Iron welding pin, black enameled case, brass internals.
- Measurement Element: two capsule
- Accuracy class: 2.5
- Range: 0 to 60cmH₂O
- Copper alloy nozzle connection

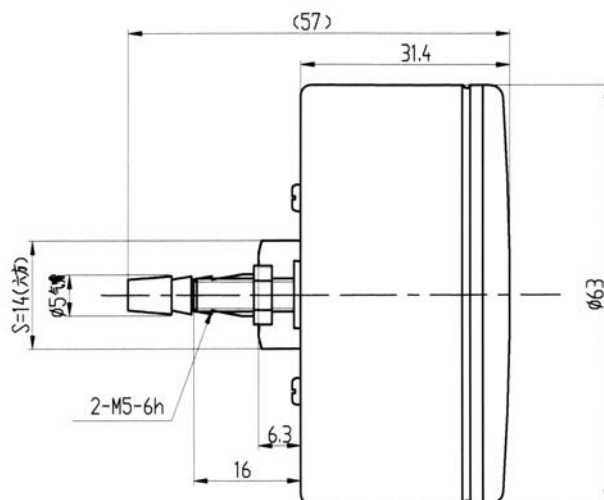
仪表型号标示 Instrument Type

YEY-063.ZO.204



几何尺寸 DIMENSIONS

单位 Unit (mm)



北京布莱迪仪器仪表有限公司

PM · 06 -3

63 轴向接头两件式膜盒医用微压表

63mm back connection, two pieces,
low-pressure capsule gauges for medical

产品特性:

- 轴向接头两件式, 压紧式罩壳及设计形式
- 铁外壳、铜内机
- 测压元件为双片膜盒
- 精度等级为 1.5, 2.5
- 测量范围 -2~10KPa
- 仪表带有微动调零装置

仪表型号标示 Instrument Type:

YEY-063.ZO.215

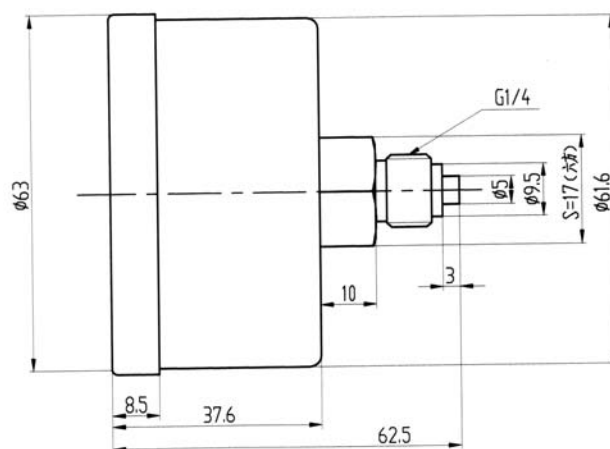


Features:

- Back connection, two pieces, pressed bezel and screw in bezel
- Iron case; brass internals.
- Measurement Element: two capsule
- Accuracy Class: 1.5; 2.5
- Range: -2 to 10kpa
- With micro-adjustment setting

几何尺寸 DIMENSIONS

单位 Unit (mm)



PM · 06 -2

BEIJING BRIGHTY INSTRUMENT CO.,LTD. **BLD**

医用系列膜盒压力表系列

YEY

Medicine Series Capsule Pressure gauges



63 轴向接头两件式单膜盒医用微压表

63 back connection two pieces single capsule, low pressure

仪表型号 Instrument type: YE-063.ZO.215 (YE-63Z)

索引页 Index page : PM.06-2



63 轴向罩壳压紧式双膜盒医用微压表

63 bottom connection pressed type two capsule,
low pressure gauge for medicine

仪表型号 Instrument type: YE-063.ZO.204 (YE-63Z)

索引页 Index page : PM.06-3



63 径向压紧式单膜盒医用微压表

63 Bottom connection pressed type single capsule,
low pressure gauge for medicine

仪表型号: YE-063.AO.205 (YE-63)

索引页 : PM.06-4



50 轴向压紧式单膜盒医用微压表

50 back connection pressed type single capsule,
low pressure gauge for medicine

仪表型号 Instrument type: YEY-050.AO.105 (YE-50Z)

索引页 Index page : PM.06-5



63 钢壳卡子安装膜盒医用微压表

63 capsule gauge for medicine, clamp mounting

仪表型号 Instrument type: YEY-063.ZK.513 (YE-63ZK)

索引页 Index page : PM.06-6



63 轴向医用微压真空表 (快速插拔式)

63mm back connection vacuum pressure gauge for medical

仪表型号: YEY-063.ZO.000 (YE-63Z)

索引页 : PM.06-7



北京布莱迪仪器仪表有限公司

PM · 06 -1

MODEL YE-080

主要技术参数

执行标准:	JB/T9274-1999
仪表公称直径	80mm;
精度等级	2%; (2.5% 可选)
测量范围	-1~6kPa
防护等级	IP54
正常工作环境温度	-25℃~55℃
仪表连接	M5 内螺纹 (其它见选型表) 轴向卡子安装
仪表外壳	不锈钢本色表壳滚边
仪表接头	铜合金钝化处理 (电镀可选)
测压元件	铜合金双膜盒无铅锡焊接
仪表机芯	铜合金, 装有仪表微动调零装置
仪表玻璃	2mm 有机玻璃
仪表指针	铝黑色
过压范围	正压部分 10 倍, 即: 60kPa

Technical Specifications

Executive Standard:	JB/T9274-1999
Instrument Diameter:	80mm
Accuracy class:	2%; (2.5% optional)
Range:	1-6kPa (see range code table for type)
Protection Class:	Ip54
Ambient Temperature:	-25℃~55℃
Instrument Connection:	M5-F (other see type table), back connection clamp connection
Instrument Case:	Stainless steel case, crimped type.
Instrument Connection:	Copper alloy, passivating treatment (plating optional)
Measurement Elements:	copper alloy double diaphragm lead-free tin soldering
Movement:	copper alloy, micro-adjustment
Window:	2mm organic glass
Instrument pointer:	black aluminium

80 防高压膜盒压力表

YE-080

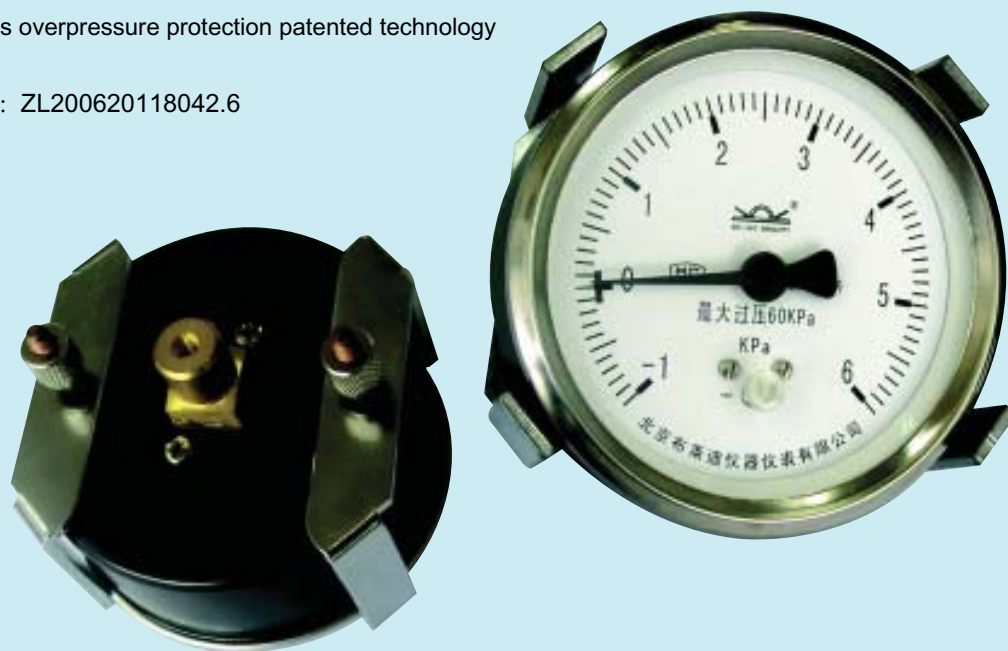
80 High-pressure protection capsule gauge

仪表型号 Type: YE-080.ZK.203 (YE-80ZK)

10 倍的高压保护专利技术

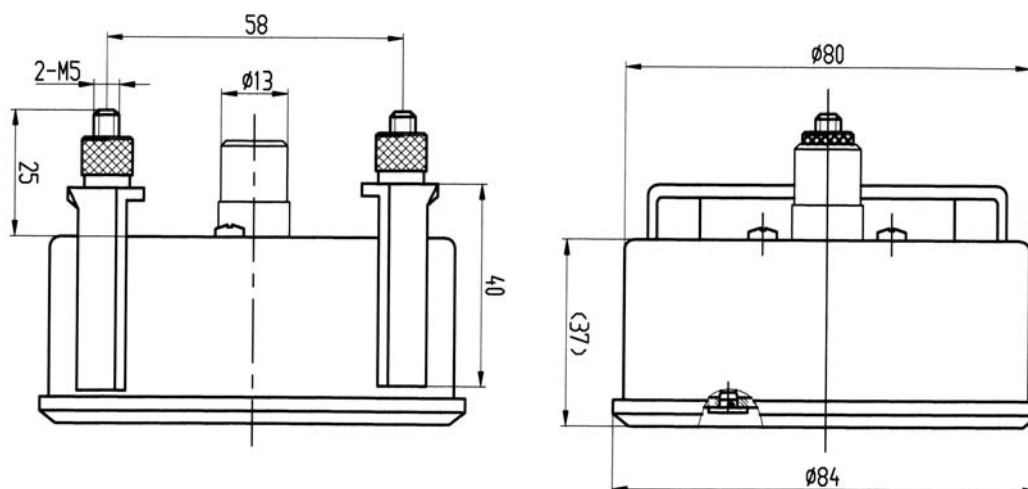
10 times overpressure protection patented technology

专利号: ZL200620118042.6



几何尺寸 DIMENSIONS

单位 Unit (mm)



北京布莱迪仪器仪表有限公司

PM · 05 -1

MODEL YEFN

应用简介:

用于微小气体而且有震动的场合

Brief Introduction

Suitable for accurate measuring of the low pressure in vibrative locale.

主要技术参数

执行标准: JB/T9274-1999

仪表公称直径 100mm; 160mm;

精度等级 100mm; 160mm 1.5%;
(1.6%;2.5% 可选)

测量范围 6kPa -100 kPa
(型号选择见量程代码表)

防护等级 IP65

正常工作环境温度

充硅油: -40℃ ~ +60℃

连接螺纹 100、160 外
径 M20 (M20X1.5) 其它见选型表

仪表外壳 SUS304 不锈钢本色 (抛光可选)

仪表接头 SUS316 本色 (22mm 四方不锈钢)
接头与表壳氩弧焊接;

测压元件 不锈钢 SUS316 双片膜盒等离子焊,
激光焊接

仪表机芯 不锈钢; 安装仪表微动调零装置 (外置)

仪表玻璃 4mm 仪表平板玻璃 (有机玻璃可选;
安全玻璃可选)

仪表充液 硅油

Technical Specifications

Executive Standard: JB/T 9274-1999

Instruments Diameter: 100mm; 160mm;

Accuracy Class: 100mm; 160mm 1.5%;
(1.6%;2.5%)

Range: 6kPa -100 kPa

Protection Class: IP65

Ambient Temperature: -40℃ ~ +60℃

Connection thread: 100、160 outer diameter M20
(M20X1.5) others see the table

Instrument case: SUS304 stainless steel nature color
(option: polished case)

Instrument socket: SUS316 nature color (22mm
stainless steel square) Socket welded to case
by argon-arc welding

Measurement Elements: Stainless Steel SUS316
double diaphragm plasma welding, laser
welding.

Movement: Stainless steel, micro-adjustment

Window: 4mm instrument plain glass
(organic glass optional)

Oil filled: silicone oils

不锈钢充油耐震膜盒微压表

YEFN

Diameter stainless steel vibration-proof pressure gauge

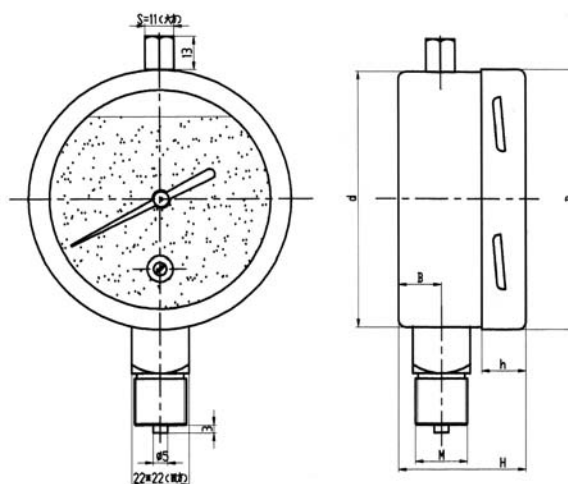


仪表可选类型 Option Type	基本型号 Basic Type
φ 100 外径不锈钢耐震压力表 φ 100 outer diameter Stainless steel, vibration-proof pressure gauge	YEFN-100.AO.531
φ 160 外径不锈钢耐震压力表 φ 160 outer diameter Stainless steel, vibration-proof pressure gauge	YEFN-160.AO.531

几何尺寸 DIMENSIONS

单位Unit (mm)

外径 Outer diameter	D	D2	H	h	B
φ 100	φ 101	φ 99	48	18	90
φ 160	φ 162	φ 158	50	19	120



北京布莱迪仪器仪表有限公司

PM · 04 -1

65/90/120 系列膜盒微压表

主要技术参数

执行标准:	JB/T9274-1999
仪表公称直径	65mm; 90mm; 120mm;
精度等级	1.5%; (1.6%;2.5% 可选)
测量范围	2.5kPa -100 kPa (型号选择见量程代码表)
防护等级	IP54
正常工作环境温度	-25℃ ~ 55℃
连接螺纹	65、外径 G1/4 M14x1.5; 90、120 外径 G1/4 M14x1.5 其它见选型表
仪表外壳	YE 普通型 ST13 喷黑塑 (电镀可选) YEF 不锈钢防腐型 SVS316 本 色 (抛光可选)
仪表接头	YE 普通型铜合金钝化(电镀可选) YEF 防腐型 SUS316 本色 (22mm 四方不锈钢) 65 外径 YE 普通型轴向斜嵌式快 装接头可选
测压元件	YE 普通型铜合金双片膜盒, 锡 焊接 YEF 不锈钢防腐型 SUS316 双 片膜盒等离子焊, 激光焊接
仪表机芯	YE 普通型铜合金; YEF 防 腐型不锈钢; 65 外径仪表机芯安装微动调零装置 (不调零可选)
仪表玻璃	120 外径仪表平板玻璃; 65、90 外径 旋紧式光边有机玻璃罩; 65 旋紧式花边有机玻璃罩可选

Technical Specifications

Execntive Standard:	JB/T 9274-1999
Instruments Diameter:	65mm;90mm;120mm
Accuracy Class:	1.5%;(1.6%,2.5% optional)
Range:	2.5kpa-100kpa (see range table)
Protection Class:	IP54
Ambient temperature	-25℃ ~ 55℃
Connection thread:	65mm others see the table
Instrument case:	YE standard ST13 black enameled(plated optiona;) YEF stainless steel corrosion proof SUS304 nature color (polished optional)
Instrument socket:	YE standard copper alloy plated YEF corrosion proof SUS304 nature color(22mm square stainless steel)
Measurement Elements:	YE standard copper alloy double diaphragm tin welding. YEF stainless steel corrosion proof SUS316 double diaphragm plasma welding and lasing welding.
Movement:	YE standard copper alloy, YEF corrosion proof stainless steel, all with micro adjustment devise (without zero adjustment option)
Window:	120mm instrument plain glass; 65mm,90mm screw in organic glass; 65mm screw in organic glass is optional



65/90/120 系列膜盒微压表

Standard Electric Contact Pressure Gauge

产品展示 Features	可选仪表类型 Optional type	型号 Type
φ 65mm 外径 (2.5") 	普通膜盒径向安装 Standard capsule bottom mounting	YE-065.AO.204
	普通膜盒径向前环安装 Standard capsule bottom mounting with front ring	YE-065.AT.204
	普通膜盒轴向安装 Standard capsule back mounting	YE-065.ZO.204
	普通膜盒轴向前环安装 Standard capsule back mounting with front ring	YE-065.ZT.204
	普通膜盒轴向卡子安装 Standard capsule back mounting with clamp	YE-065.ZK.204
	不锈钢膜盒径向安装 Stainless steel capsule bottom mounting	YEF-065.AO.504
	不锈钢膜盒径向前环安装 Stainless steel capsule bottom mounting with front ring	YEF-065.AT.504
	不锈钢膜盒轴向安装 Stainless steel capsule back mounting	YEF-065.ZO.504
	不锈钢膜盒轴向前环安装 Stainless steel capsule back mounting with front ring	YEF-065.ZT.504
	不锈钢膜盒轴向卡子安装 Stainless steel capsule back mounting with clamp	YEF-065.ZK.504
φ 90mm 外径 (3.5") 	普通膜盒径向安装 Standard capsule bottom mounting	YE-090.AO.204
φ 120mm 外径 (4.5") 	普通膜盒径向安装 Standard capsule bottom mounting	YE-120.AO.200

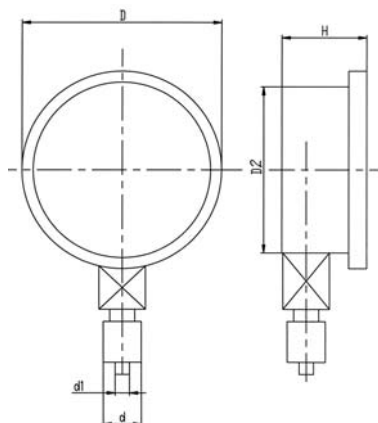
MODEL YE/YEF(202)

外卡式仪表外形尺寸对照表

Table of Dimensions

单位Unit (mm)

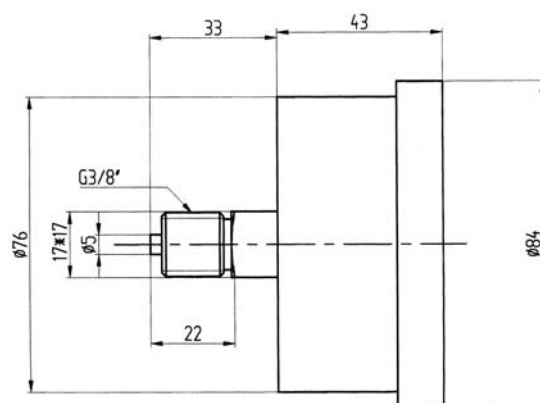
外径 Outer diameter	D	D1	D2	d1	H
φ 100	φ 108	φ 6	φ 98	47	—
φ 75	φ 84	—	φ 76	φ 5	43
φ 65	φ 74	—	φ 66	φ 5	37



φ 75

轴向安装

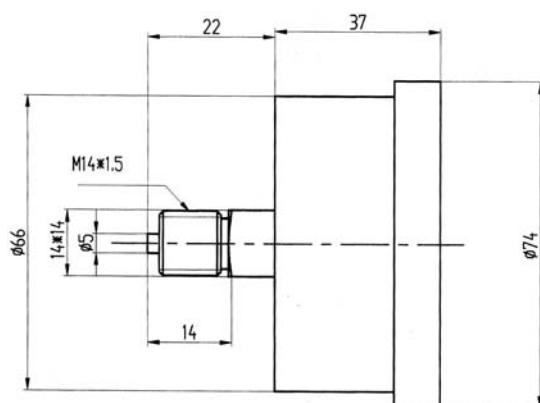
Back mounting



φ 65

轴向安装

Back mounting



MODEL YE/YEF(202)

主要技术参数

执行标准:	JB/T9274-1999
仪表公称直径	65mm; 75mm; 100mm;
精度等级	1.5%; (1.6%;2.5% 可选)
测量范围	75mm、100mm 外径 1kPa -100 kPa 65 外径 2.5kPa -100 kPa (型号选择见量程代码表)
防护等级	IP54
正常工作环境温度	-25℃ ~ 55℃
连接螺纹	65、 外径 G1/4 M14x1.5 75 外径 G3/8、 100 外径 G3/8 G1/2; NPT1/2 M20x1.5 其 它见选型表
仪表外壳	YE 普通型 ST13 喷黑塑 YEF 不锈钢防腐型 SUS304 本色 (抛光可选)
仪表接头	YE 普通型铜合金 (电镀可选) YEF 防腐型 SUS316 本色 (22mm 四方不锈钢) 安装过压保护装置 (无过压保护可选)
测压元件	YE 普通型铜合金双片膜合, 锡焊接 YEF 不锈钢防腐型 SUS316 双片 膜盒等离子焊, 激光焊接
仪表机芯	YE 普通型铜合金; YEF 防腐 型不锈钢; 均安装仪表微动调零装置 (不调零可选)
仪表玻璃	3mm 仪表平板玻璃 (有机玻璃防爆双 层玻璃可选)

Technical Specifications

Execntive Standard:	JB/T9274-1999
Instruments Diameter:	65mm;75mm;100mm
Accuracy Class:	1.5%;(1.6%,2.5% optional)
Range:	75mm,100mm 1kpa-100kpa; 65mm, 2.5kpa-100kpa (see range table)
Protection Class:	IP54
Ambient temperature	-25℃ ~ 55℃
Connection thread:	65mm Outer diameter G1/4 M14x1.5 75 outer diameterG3/8、 100 outer diameter G3/8 G1/2; MPT 1/2 M20x1.5 others see the table
Instrument case:	611YE standard ST13 black YEF stainless steel corrosion proof SUS304 nature color (polished optional)
Instrument socket:	YE standard copper alloy plated YEF corrosion proof SUS316 nature color(22mm square stainless steel)
Measurement Elements:	YE standard copper alloy double diaphragm tin welding. YEF stainless steel corrosion proof SUS316 double diaphragm plasma welding and lasing welding.
Movement:	YE standard copper alloy, YEF corrosion proof stainless steel, all with micro adjustment devise (without zero adjustment option)
Window:	3mm instrument plain glass (organil or double layers available)

(外卡式) 普通膜盒微压表

YE-(202)

(Outer bayonet) standard capsule low pressure gauge

(外卡式) 不锈钢膜盒微压表

YEF-(202)

(Outer bayonet) Stainless Steel capsule low pressure gauge

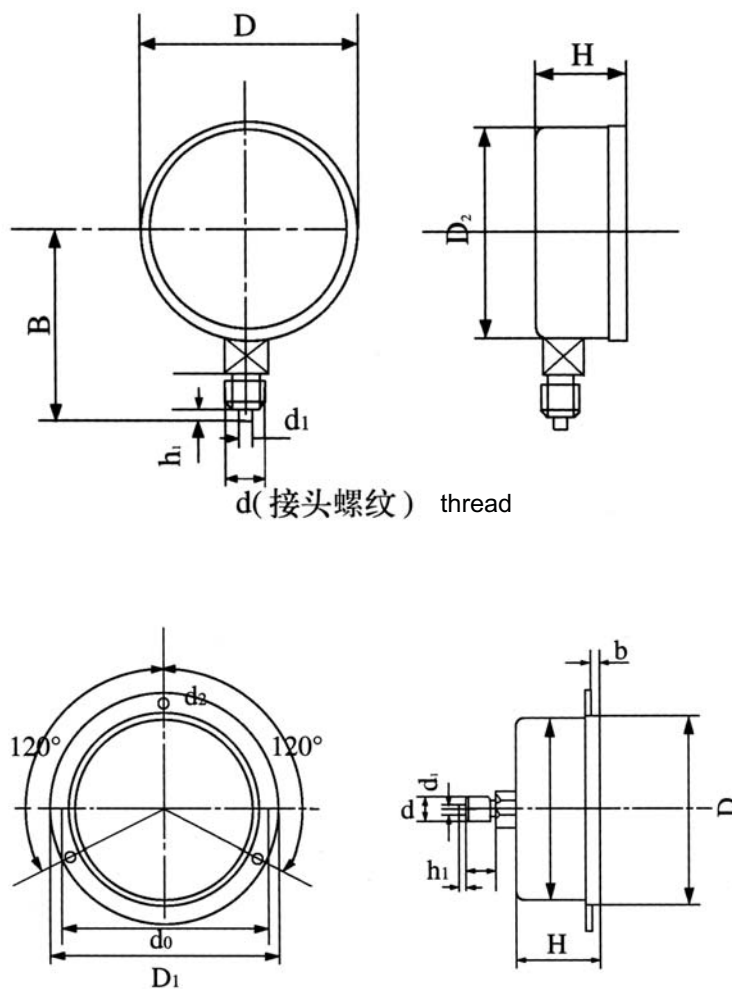
产品展示 Features	可选仪表类型 Optional type	型号 Type
φ 65mm 外径 outer diameter 	普通膜盒径向安装 Standard capsule bottom mounting	YE-065.AO.202 (YE-65)
	普通膜盒轴向安装 Standard capsule back mounting	YE-065.ZO.202 (YE-65Z)
	全不锈钢膜盒径向安装 Stainless steel capsule bottom mounting	YEF-065.AO.202 (YEF-65)
	全不锈钢膜盒轴向安装 Stainless steel capsule back mounting	YEF-065.ZO.202 (YEF-65Z)
φ 75mm 外径 outer diameter 	普通膜盒径向安装 Standard capsule bottom mounting	YE-075.AO.202 (YE-75)
	普通膜盒轴向安装 Standard capsule back mounting	YE-075.ZO.202 (YE-75Z)
φ 100mm 外径 outer diameter 	普通膜盒径向安装 Standard capsule bottom mounting	YE-100.AO.202 (YE-100)
	不锈钢膜盒径向安装 Standard capsule back mounting	YE-100.AO.502 (YEF-75)
	轴向安装 Back connection mounting	无 None



MODEL YE/YEF(201)

仪表外形尺寸对照表

Table of Dimensions



单位 Unit (mm)

安装形式 Mounting	D	D ₁	D ₂	d ₁	d ₂	d ₀	B	b	H	h ₁	d 接头连 接 Connction	或其它连接尺寸 or other socket dimension
φ 100 径向 φ 100 Bottom mounting	φ 101	—	φ 99	φ 5	—	—	90	—	48	3	20x1.5	
φ 100 轴向 φ 100Back mounting	φ 101	—	φ 99	φ 6	—	—	—	—	48	3	20x1.5	
φ 100 轴向前边 φ 100 Back mounting with front flange	φ 101	φ 32	φ 99	φ 6	φ 5	φ 115 ~ φ 118	—	5	48	3	20x1.5.	
φ 160 径向 φ 160 Bottom mounting	φ 162	—	φ 158	φ 5	—	—	120	—	50	3	20x1.5	

MODEL YE/YEF(201)

主要技术参数

执行标准:	JB/T9274-1999
仪表公称直径	100mm; 160mm
精度等级	1.5%; (1.6%;2.5% 可选)
测量范围	Φ 100 外径 1kPa -100 kPa Φ 160 外径 0.25kPa -100 kPa (型号选择见量程代码表)
防护等级	IP54
正常工作环境温度	-25℃ ~ 55℃
连接螺纹	M20 (M20X1.5) 其它见选型表
仪表外壳	YE 普通型 ST13 喷黑塑 YEF 不锈钢防腐型 SUS304 本色 (抛光可选)
仪表接头	YE 普通型铜合金(电镀可选) YEF 防腐型 SUS316 本色 (22mm 四方不锈钢)
测压原件	YE 普通型铜合金双片膜盒, 锡焊接 YEF 不锈钢防腐型 SUS316 双片 膜盒等离子焊, 激光焊接
仪表机芯	YE 普通型铜合金; YEF 防腐型不锈钢; 均安装仪表微动调零 装置 (不调零可选)
仪表玻璃	3mm 仪表平板玻璃 (可选 4mm 平板玻璃和防爆玻璃)
仪表度盘	铝、白底黑刻线 (可特殊加工)

Technical Specifications

Executive Standard:	JB/T 9274-1999
Instruments Diameter:	100mm;160mm
Accuracy Class:	1.5%;(1.6%,2.5% optional)
Range:	100dia. 1kpa-100kpa, 160doa.0.25kpa-100kpa(see range table)
Protection Class:	IP54
Ambient temperature	-25℃ ~ 55℃
Connection thread:	M20(M20X1.5) others see the table
Instrument case:	YE standard ST13 black YEF stainless steel corrosion proof SUS304 nature color (polished optional)
Instrument socket:	YE standard copper alloy plated YEF corrosion proof SUS316 nature color (22mm square stainless steel)
Measurement Elements:	YE standard copper alloy double diaphragm tin welding. YEF stainless steel corrosion proof SUS316 double diaphragm plasma welding and lasing welding.
Movement:	YE standard copper alloy, YEF corrosion proof stainless steel, all with micro adjustment devise (without zero adjustment option)
Window:	3mm instrument plain glass
Dial:	Aluminium, withite with black letters (special dial available)



(内卡式) 普通膜盒微压表 YE-(201)

(Inner bayonet) standard capsule low pressure gauge

(内卡式) 不锈钢膜盒微压表 YEF-(201)

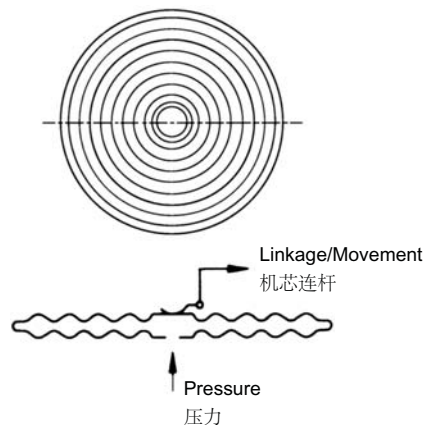
(Inner bayonet) SS capsule low pressure gauge

产品展示 Feature	外径 Outer diameter	内机 Internals	型号 Type
径向直接安装 型号代码 Ao () Bottom Connection directly mounting Type CodeAo () 	100mm 160mm	铜合金 不锈钢 Copper alloy Stainless steel	YE-100.AO.201 YE-160.AO.201 YEF-100.AO.501 YEF-160.AO.501
中轴向直接安装 型号代码 ZO (Z) Center Back connection directly mounting Type CodeZO (Z) 	100mm 160mm	铜合金 不锈钢 Copper alloy Stainless steel	YE-100.ZO.201 YE-160.ZO.201 YEF-100.ZO.201 YEF-100.ZO.201
径向后背板安装 型号代码 AH (T) Bottom Connection back mounting Type Code AH(T) 	100mm 160mm	铜合金 不锈钢 Copper alloy Stainless steel	YE-100.AH.201 YE-160.AH.201 YEF-100.AH.501 YEF-160.AH.501
轴向前带边安装 型号代码 ZT (Z T) Center Back connection with front flange Type CodeZT(ZT) 	100mm 160mm	铜合金 不锈钢 Copper alloy Stainless steel	YE-100.ZT.201 YE-160.ZT.201 YEF-100.ZT.501 YEF-160.ZT.501

膜盒微压系列压力表

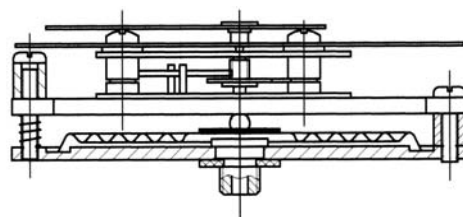
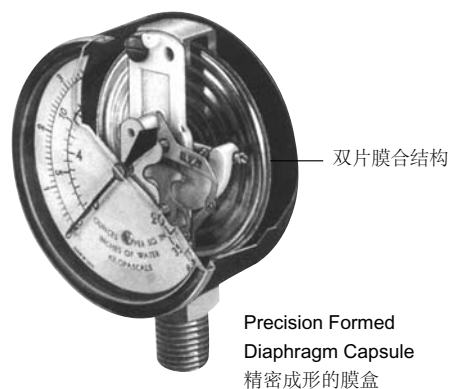
工作原理:

微压表主要是依靠膜盒作为感应元件对压力进行测量,膜盒分为2种,一种由两个具有弹性的金属膜片焊接而成,另一种为单片膜片与底座焊接(称单片膜合)。膜盒的外面焊有连杆并接到齿轮机芯上,当气体压力传递到膜盒时,膜盒壁就会产生变形,并随着压力的变化而变化,这种变化借助连杆,经齿轮传动机械放大,由固定在齿轮轴上的指针将压力值指示在度盘上。



How the Capsule Gauge Works:

Capsule gauges use the diaphragm capsule as the sensing element for pressure measurement. The diaphragm capsule is an elastic metal sensing element comprised of two thin wall diaphragms whose sides are soldered together to the capsule. Whenever air, gas enters the intake port (gauge connection), it travels into the diaphragm capsule. The walls of the capsule expand and contract in response to the change in pressure. This change is then transferred to a rotating rod and arm that rest on the outside of the capsule. The rotating rod is connected to a geared movement through a linkage system. Connected to a shaft, this system then drives the pointer over a dial marked in appropriate pressure or vacuum units to provide a pressure reading.



单片示意图



膜盒微压系列压力表

简介

膜盒微压表是用来检测微小压力的仪表。(一般测量低于60kPa的压力)。被广泛应用于医药、供暖、气体管道、燃烧装置、空气调节及很多工业领域。

普通膜盒微压表用于测量对铜合金无腐蚀作用气体的微小压力。其共同的特点是:膜盒材质及接头材质均为铜合金。

防腐膜盒表的特点是,膜盒材质及接头材质均为SUS316或SUS304主要用于有腐蚀的环境中,测量腐蚀性较强气体的微小压力。

我公司对微压表的生产有着丰富的经验,产品品种、数量均为国内第一,测量范围最小可达到0~0.25kPa其所制造的膜盒微压系列压力表以独特的设计,可靠的工作性能及铜合金、一般防腐、充油耐震及全不锈钢等系列的适用选择,赢得了国内外用户的广泛信赖。

Brief

Introduction

Capsule gauges are sensitive instruments used in low pressure applications typically not exceeding 0.1 Mpa. It is used in a wide range of applications including medical, heating, gas piping, burners, air condition and many others.

The standard low-pressure capsule gauges are designed to measure the low pressure of gas that does not corrode the copper alloy. This gauge series features a copper alloy capsule and socket.

Suitable for accurate measuring the low pressure of corrosive gas or fluid in corrosive Environment.

This gauge series features a SUS 316 capsule and socket.

With the proven manufacturing experience, our low pressure capsule gauges are well-known for their unique designing feature, dependable performance and wide applications.

特点

- ◆ 普通型、不锈钢防腐型、充油耐震型适应于各种测量环境;
- ◆ 具有 $\phi 50$ 、 $\phi 65$ 、 $\phi 75$ 、 $\phi 100$ 、 $\phi 160$ 等多种外径尺寸及包括轴向、径向直接安装;轴向径向前法兰、后法兰安装、轴向U型卡子、医用特殊安装等各类不同的安装形式;
- ◆ 有内卡式、外卡式、罩壳压紧、聚苯玻璃旋紧、螺钉紧固多种设计款式;
- ◆ 正压、负压、正负联程压力测量范围广泛,从0.25kPa~100kPa内任何量程;
- ◆ 提供各种备选项目,充分进行特色制做。

Features

- ◆ YE standard, YEF stainless steel corrosion-proof, suitable for various applications;
- ◆ Available from $\phi 50$ 、 $\phi 65$ 、 $\phi 100$ to $\phi 160$ with different mountings;
- ◆ 4 styles: outside bayonet, close bayonet, polystyrene twist-on window;
- ◆ Positive, negative, compound pressure ranges, minimum range is 0 ~ 0.25 kPa;
- ◆ A variety of options, built to need.

膜盒微压系列压力表

Low Pressure Capsule Gauges



目录 Catalog

名称特性 Title	索引页 Index
产品综述 Feature	PM.00
内卡式（普通、防腐）膜盒微压表 Inner bayonet(standard, corrosion proof)low pressure gauge	PM.01
60; 75; 100 外卡式（普通、防腐）膜盒微压表 60;75;100outer bayonet(standard, corrosion proof)	PM.02
DS（65; 90; 120）系列微压表 DS(65;90;120)series low pressure gauge	PM.03
充油耐震微压表 Oil filled corrosion proof Low pressure gauge	PM.04
定位针（外卡）YE80 10倍过压微压表 Set pointer(outer bayonet)YE80 10times over pressure protection	PM.05
医用系列微压表 Medicine series	PM.06
膜盒微压系列常用量程范围规格代码表 Capsule pressure gauge range table	PM.07
膜盒微压系列选型表 Capsule pressure gauge type table	PM.08



MODEL BF、BFN

如何选型 HOW TO ORDER

型号代码 CODE		特性说明 CHARACTERISTICS							
Basic type 基本型号	BF	—	膜片表 / 不锈钢 / 密闭型 Diaphragm pressure gauge/Stainless steel/Obturation						
	BFN	—	膜片表 / 不锈钢 / 充液型 Diaphragm pressure gauge/Stainless steel/Oil filled						
Diameter 外径	100	—	Φ 100						
	160	—	Φ 160						
Mounting 安装方式	AO	—	径向直接安装 Bottom, directly moanting						
Design 设计代码	501	—	不锈钢外壳 / 内卡式 Stainless steel case/block inside						
Ranges 量程	M110	—	请参看量程代码表 See range table						
Connection 连接螺纹	M20	—	M20 × 1.5						
	G12	—	G1/2						
Options 备选项	Z12	—	NPT1/2						
			其它螺纹 Other threads 法兰连接 Flange connection						
	SKB	—	304 膜片 304 diaphragm						
	STI	—	Ti 膜片 diaphragm						
	SKD	—	SUS316L 膜片 SUS316L diaphragm						
	SYA	—	充填甘油 Glycerin fiud						
	SSF	—	喷涂 PTFE 膜片 PTFE painting diaphragm						
	SKA	—	钽片 Tan talum						
	SNR	—	蒙乃尔膜片 Monel diaphragm						

量程范围规格代码表 TABLE OF RANGES

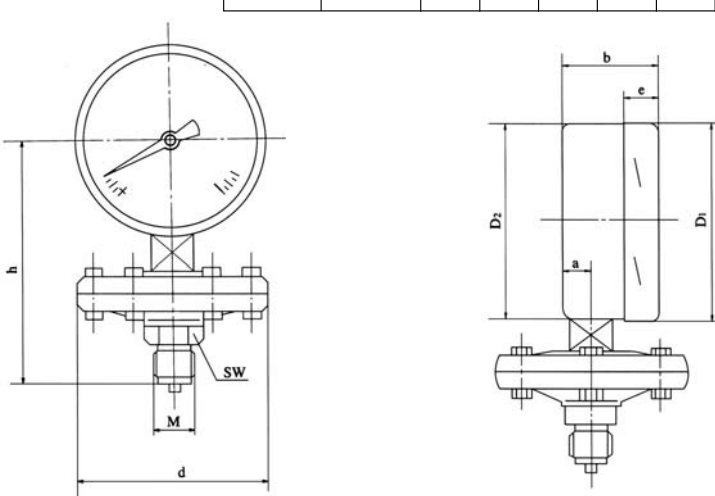
选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M040	0.16MPa	K520	-1.6KPa	K060	4 KPa
M060	0.25MPa	K540	-2.5KPa	K080	6 KPa
M080	0.4MPa	K560	-4 KPa	K090	10 KPa
M100	0.6MPa	K580	-6 KPa	K110	16 KPa
M120	1MPa	K590	-10 KPa	K130	25KPa
M140	1.6MPa	K010	1 KPa	K150	40 KPa
M160	2.5MPa	K020	1.6KPa	K170	60 KPa
M500	-0.1-0MPa	K040	2.5KPa	K192	100 KPa
K510	-1KPa				

MODEL BF、BFN

几何尺寸 Dimensions

螺纹连接 Thread connection

外形尺寸 Dimensions mm	测量范围 Ranges MPa	仪表部分尺寸 mm Gauge Dimensions mm								
		d	a	b	D ¹	D ²	e	M	h ± 2	SW
100	≤ 0.025	160	15.5	49.5	101	99	17.5	20x1.5/G1/2"	135	27
160			15.5	49.5	161	159	17.5	20x1.5/G1/2"	165	27
100	≥ 0.04	100	15.5	49.5	101	99	17.5	20x1.5/G1/2"	135	27
160			15.5	49.5	161	159	17.5	20x1.5/G1/2"	165	27



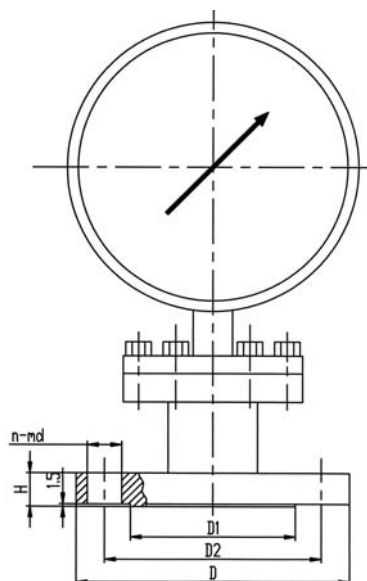
法兰连接 Flanged connection

法兰连接:

需提供法兰标准或特殊要求的加工图纸

Flanged Connection:

Standard flange or custom manufacturing.



北京布莱迪仪器仪表有限公司

PP · 01 -3

MODEL BF、BFN

主要技术参数

执行标准: JB/T 4591-2005

精度等级: 1.5%; 2.5% (低于 2.5KPa)

测量范围: 负压 (真空) -1KPa、-4KPa~0 至 -100KPa, 正压 1KPa~2.5MPa 及任何正负量程。

仪表外径: 100mm、160mm

工作压力: 静负荷用至测量上限值的 3/4, 交变负荷用至测量上限的 2/3, 短时压力用至上限值。

正常工作环境温度: -40℃ ~ 60℃

膜片材料: 3j1 SUS304、SUS316、Ti. 蒙乃尔 SUS316L、喷涂 PTFE Ta 316Ti

壳体材料: 304

接液接体材料: 316、316L、四氟喷涂

机芯材料: 304

密封材料: 氟橡胶

防护等级: BF 型 IP55; BFN 型 IP65

表内充液: BF 型干式 BFN 型充填甘油 (硅油或其他)

连接方式: 1) 螺纹连接 M20 × 1.5 (G1/2, NPT1/2 或其他)
2) 法兰连接 根据客户要求制造

法兰材质: 304、316、316L 四氟喷涂、四氟衬套

Technical Specifications

Executive standard: JB/T 4591-2005

Accuracy: 1.5%; 2.5% (>2.5KPa)

Range: -1KPa、-4KPa~0 to -100KPa And any connection of positive /negative pressure.

Nominal size: 100mm、160mm

Working pressure: Steady: 3/4 of full scale value; Fluctuating: 3/2 of full scale value; Short time: full scale value.

Ambient temperature: -40℃ ~ 60℃

Diaphragm material: 3j1 (SUS304、SUS316L、Ti. mond PTFE and other specials available).

Case material: 304

Connection body: 316、316L、Fluorin painting

Movement material: 304

Seal:

Protection: Type BF IP55; Type BFN IP65

Liquid filling: glycerine (silicon oil and others)

Connection: 1) thread connection M20 × 1.5 (G1/2NPT1/2 and others)
2) Flanged connection depend on requests from customers.

Flang material: 304, 316, 316L Fluorin painting, PTFE cover

不锈钢防腐膜片压力表

BF

Stainless Steel Corrosion-Proof Diaphragm Gauges **BFN(YPN)**

仪表特性

- 测量范围最低达到 1KPa (国内领先)
- 可选择多种特殊膜片 (国内领先)
- 可选择充油耐震型 (国内领先)
- PTFE 四氟压套特殊制作



BFN(YPN) 耐震型

Vibration-proof style

Features

- Minimum range 1kpa (Leading Domestically).
- Multifold special diaphragms are optional (Leading Domestically).
- Oil filled vibration proof type is optional (Leading Domestically).
- PTFE cover



BF(YP) 标准型

Standard style

产品简介

BF、BFN 型系列防腐不锈钢膜片压力表，主要用于化学、石油、纺织工业中对气体、液体微小压力的测量，尤其适用于腐蚀性强、粘稠介质（非凝固非结晶）的微小压力测量。并可根据不同的测量介质选用不同材料的膜片。

PRODUCT OVERVIEW

BF/BFN type Stainless Steel Corrosion-Proof Diaphragm Gauges are built for measuring low pressure of gas or liquid in chemical, petroleum, textile industries, where strong corrosion and viscous media (non-crystallized) are a concern. Different diaphragm materials are available to be compatible with process fluids.



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技术参数

- 精度等级中点范围 0.5 级其余范围 1 级
- 测量压力最小 15psi, 最高 1000psi
- 镀铬黄铜底壳, 滚花罗纹前环
- 刀锋式黑色钢指针
- 带调效器的黄铜镶钻石机芯
- 厚斜角玻璃, 外面有不透明的塑料保护罩
- NPT1/4", M14x1.5, G1/4
- 度盘白底黑字 psi 计量刻度, 或依照要求特殊加工
- Accuracy: 0.5% mid-range, 1.0% in other range.
- Ranges: 0.1MPa to 70MPa
- Chrome-plated brass case with knurled threaded ring.
- Knife edge black pointer
- Diamond-inlay brass movement with recalibrator
- Thick beveled glass, with opaque-plastic protective cover outside
- Connection or other threads connections
- Dial: White with black letters, psi calibrations, or machine as requests.

量程范围规格代码表 TABLE OF RANGES

选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M500	-0.1-0MPa	M080	0.4 MPa	M160	2.5 MPa
M030	0.1MPa	M100	0.6 MPa	M180	4 MPa
M040	0.16 MPa	M120	1 MPa	M200	6 MPa
M060	0.25 MPa	M140	1.6 MPa		

如何选型 HOW TO ORDER

型号代码 CODE	特性说明 CHARACTERISTICS						
Basic type 基本型号 YB	精密压力表 Test pressure gauge						
Design 设计代码 404	铜合金压铸外壳 / 旋紧式 Casting case/ screw tighten						
Diameter 外径 080	Φ 80						
Mounting 安装方式 AO	径向直接安装 Under mounting directly						
Ranges 量程 M120	1MPa 请参看量程代码表 See range table						
Connection 连接尺寸 Z14 T00	NPT1/4" G14 G1/4" M14 M14X1.5 其它连接标准 Other connections						
Options 备选项 GKP	抛光黄铜底壳 Polished brass case						



80 坚固型精密压力表

YB-080

80 Solid case test pressure gauge

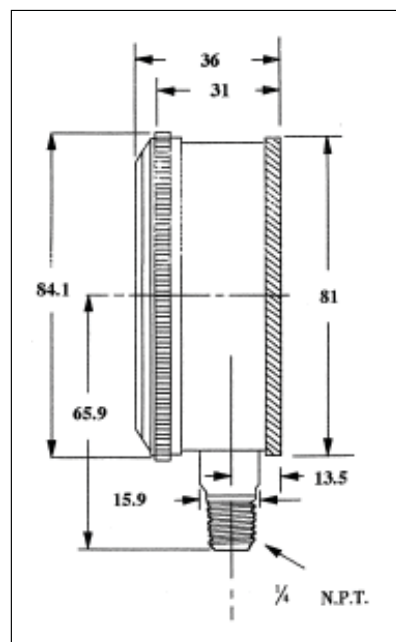


产品简介

80坚固型精密压力表, 专为压力系统检验员和其他检验用途而设计, 仪表具有坚固可靠性和便携性的特点。

PRODUCT OVERVIEW

The 80 solid case test pressure gauge is specifically designed for use by pressure system inspectors and other testing applications. It has the characteristics of dependability and portability.



如何选型 HOW TO ORDER

	型号代码 CODE	特性说明 CHARACTERISTICS							
Basic type 基本型号	YB	精密压力表 Test pressure gauge							
Diameter 外径	160	Φ 6" Φ 160mm							
Mounting 安装方式	BT	下轴向前边 Under back mounting with front flange							
Design 设计代码	207	铁外壳 / 合页边式 Steel case/combine pieces							
Ranges 量程	M120	1MPa 请参看量程代码表 See range table							
Connection 连接尺寸	M20	20 × 1.5							
	T00	其它连接标准 Other connections							
Options 备选项	BAA	0.25 级							
	BBA	0.4 级							
	TPB	特殊表盘制做 Making of Special Dial							

量程范围规格代码表 TABLE OF RANGES					
选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M030	0.1MPa	M160	2.5MPa	M280	40MPa
M040	0.16MPa	M180	4MPa	M270	60MPa
M060	0.25MPa	M200	6MPa	M290	100MPa
M080	0.4MPa	M220	10MPa	M300	160MPa
M120	1MPa	M230	16MPa	M310	250MPa
M140	1.6MPa	M240	25MPa		



坚固钢结构精密压力表

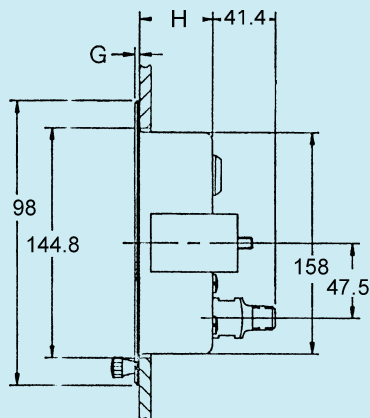
YB-160)

Solid case test pressure gauge in steel structure

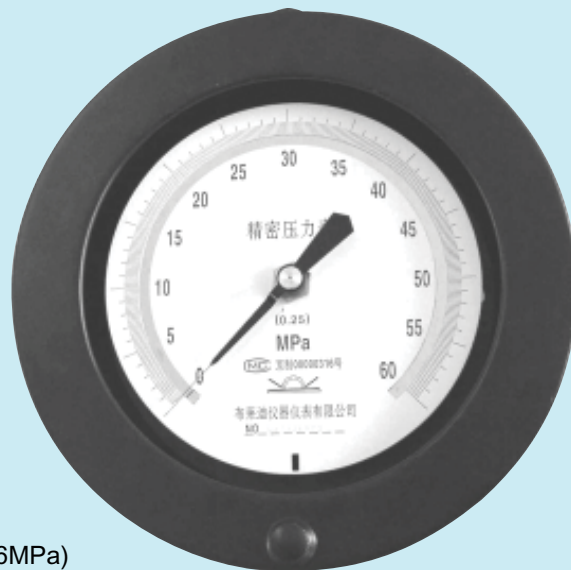
产品简介 适用于对压力的高精度测量。

PRODUCT OVERVIEW It is suitable to do high precision measurement.

外型尺寸 Dimension



G=5
H=44 ($\leq 6\text{MPa}$)
H=51 ($\geq 10\text{MPa}$)



技术参数

精度等级: 0.25%; 0.4%

测量范围: $-0.1 \sim 160\text{MPa}$

公称外径: 6"

波登管 / 接头: 铜合金 C 型管与铜合金
接头锡焊, 钢接头与钢
管氩弧焊接

仪表机芯: 不锈钢带宝石轴承

仪表连接: M20x1.5 (或其它连接)

安装结构: 轴向合页前环

仪表外壳: 坚固型黑铁壳

仪表度盘: 不锈钢双层镜面, 带调零装置

表针: 65Mo 锰, 黑色, 刀锋式

Technical specifications

Accuracy: 0.25%; 0.4%

Range: $-0.1 \sim 160\text{MPa}$

Nominal size: 6"、4.5"

Burdon tube/socket: Tin soldered copper alloy C-tubeto copper alloy
connection. TIG welded steel connection and steel tube.

Movement: Stainless Steel

Connection: M20x1.5 (other connections)

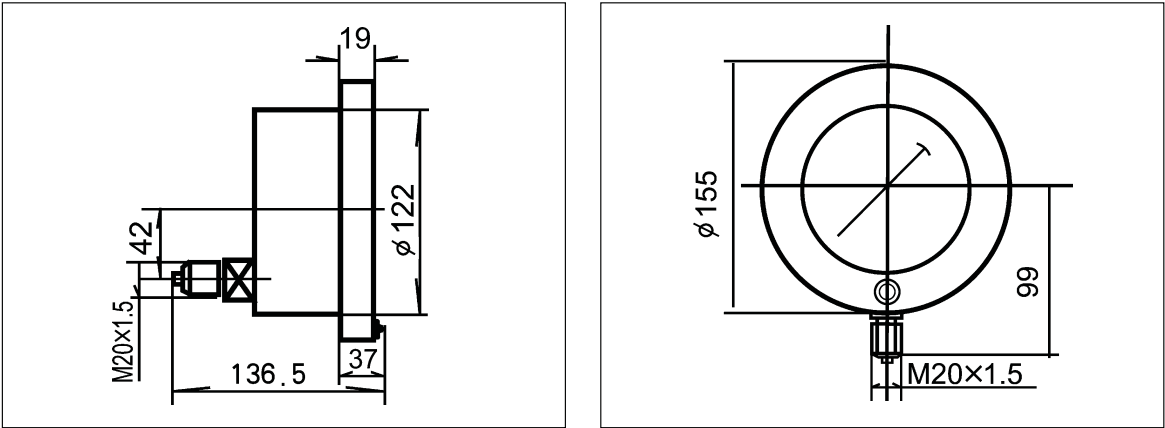
Mounting: Back mounting combining pieces with front ring

Case: Solid type, black, steel case

Dial: Stainless Steel double glasses, with zero adjustable set.

Pointer: 65Mo, Aluminium, black, knife end

外型尺寸 Dimensions



如何选型 HOW TO ORDER

	型号代码 CODE	特性说明 CHARACTERISTICS							
Basic type 基本型号	YB	—— (标准型) 精密压力表 (Standard Type) Test pressure gauge							
	YBF	—— (不锈钢防腐型) 精密压力表 (Stainless steel corrosion-proof type) Test pressure gauge							
Diameter 外径	120	—— Φ 120							
Mounting 安装方式	AT	—— 径向前边 Under mounting with front flange							
	BT	—— 下轴向前边 Under back mounting with front flange							
Design 设计代码	40	—— 压铸外壳 / 合页边式 Casting case/combine pieces							
Ranges 量程		请参看量程代码表 See range table							
Connection 连接尺寸	M20	—— M20 × 1.5							
	T00	—— 其他连接标准 Other connections							
Options 备选项	BAA	—— 0.25 级							
	BBA	—— 0.4 级							

MODEL YB / YBF

技术参数

精度等级:	0.25%; 0.4%
测量范围:	-0.1 至 40MPa
波登管 / 接头:	铜合金 C 型管与铜合金接头锡焊或钢接头与不锈钢管氩弧焊接
安装结构:	径向前边, 轴向前边
仪表机芯:	不锈钢
仪表连接:	M20 × 1.5 外螺纹 (可选其他标准连接)
仪表外壳:	铸铝黑色喷塑安全防护型, 并带调零装置
仪表度盘:	不锈钢双层镜面
表针:	65Mo 锰, 黑色前端为红色, 刀锋式

Technical specifications

Accuracy:	0.25%; 0.4%
Range:	-0.1 to 40MPa
Burdon tube/socket:	Tin welding between copper alloy C-type tube and copper alloy socket or TIG welded connection to stainless steel tube
Mounting:	Under mounting with front flange; back mounting with front flange
Movement:	Stainless Steel
Connection:	M20 × 1.5 out threads (other standard connections available)
Case:	Aluminium casting, black enamel, safety type; with zero-adjustable set.
Dial:	Stainless Steel double glasses
Pointer:	65Mo, Aluminium, black, knife end

DS120 铸铝安全防护外壳精密压力表

YB / YBF

DS 120 Test pressure gauge

C- 下轴向前边结构

Low Back Connection with Front Flange

型号标示 Code:

YB-120.BO.407 (YB-100Z)

YBF-120.BO.407 (YB-100Z)



2- 径向结构

Bottom Connection

型号标示 Code:

YB-120.AO.407 (YB-100Z)

YBF-120.AO.407 (YB-100Z)



产品简介

精密压力表可用于检验工业用普通压力表，亦可用于对介质压力的高精度测量。
120 精密压力表系列具有坚固的安全防护外壳，适用于工业过程中对介质高精度测量。
YB 标准型、YBF 不锈钢内机防腐型可选。

PRODUCT OVERVIEW

The test pressure gauge can be used to check common pressure gauge which is using in the industry process, and it can be used directly to do high precision measuring.
120 test pressure gauge who has safety protect case is suitable to do high precision measurement during industry process.
YB Standard Type. Optional YBF stainless Steel Internals Corrosion-proof.

量程范围规格代码表 TABLE OF RANGES

选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M500	-0.1MPa	M100	0.6 MPa	M200	6 MPa
M010	0.06 MPa	M120	1 MPa	M220	10 MPa
M030	0.1 MPa	M230	16 MPa	M040	0.16 MPa
M140	1.6 MPa	M240	25 MPa	M250	30 MPa
M060	0.25 MPa	M160	2.5 MPa	M260	35 MPa
M270	40 MPa	M080	0.4 MPa	M180	4 MPa
M280	60 MPa				



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MODEL YB / YBH

如何选型 HOW TO ORDER

型号代码 CODE	特性说明 CHARACTERISTICS						
Basic type 基本型号	YB — 精密表 / 铜合金 / 标准型 Test pressure gauge/Copper alloy/Standard YBH — 精密表 / 不锈钢 / 标准型 Test pressure gauge /Stainless steel/ Standard						
Diameter 外径	150 — Φ 150						
Mounting 安装方式	AO — 径向直接安装 Under mounting AT — 径向前边 Under mounting with front flange BO — 下轴向无边 Under back mounting directly BT — 下轴向前边 Under back mounting with front flange AH — 径向后带边安装 Bottom postnotum mounting						
Design 设计代码	200 — 铁外壳 / 螺钉上紧式 Steel case/screw tighten 500 — 不锈钢外壳 / 螺钉上紧式 Stainless steel case/ screw tighten						
Ranges 量程	M110 — 请参看量程代码表 See range table						
Connection 连接尺寸	M20 — M20 × 1.5 T00 — 其他连接标准 Other connections						
Options 备选项	BAA — 0.25 级 BBA — 0.4 级						

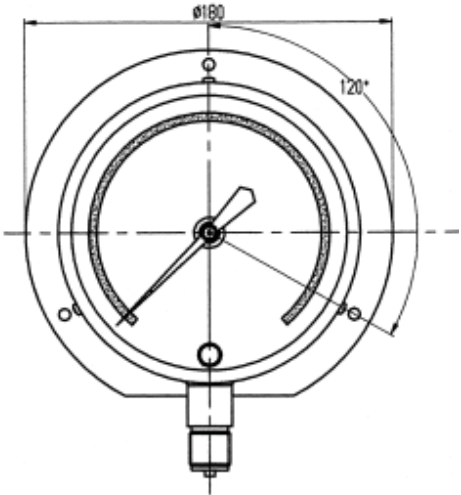
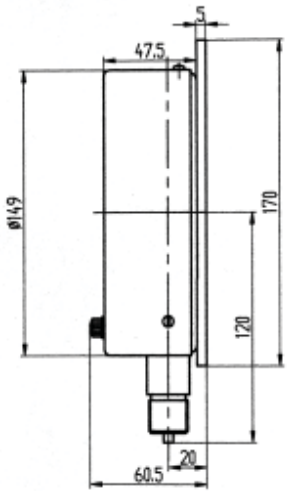
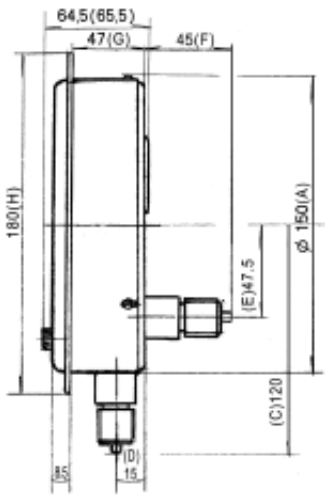
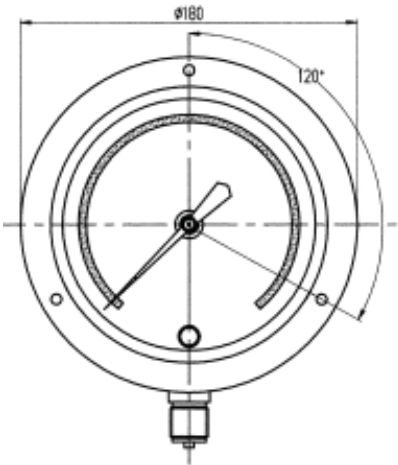
量程范围规格代码表 TABLE OF RANGES

选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M030	0.1MPa	M160	2.5MPa	M280	40MPa
M040	0.16MPa	M180	4MPa	M270	60MPa
M060	0.25MPa	M200	6MPa	M290	100MPa
M080	0.4MPa	M220	10MPa	M300	160MPa
M120	1MPa	M230	16MPa	M310	250MPa
M140	1.6MPa	M240	25MPa		

外型尺寸 Dimensions

单位 Unit (mm)

项目 规格	尺寸	A	B	C	D	E	F	G	H
150.1(YB150)		φ153	57(63)	120	15				
150.B(YB150Z)		φ153	57(63)			47.5	40		
150.C(YB150ZT)		φ153	57(63)			47.5	40	47	φ180



MODEL YB / YBH

产品简介

精密压力表可用来检验工业用普通压力表，亦可直接用于对介质压力的高精度测量。

YB 型系列精密压力表可在对铜合金无腐蚀性的场所中使用。

YBH 型系列则适用于多种腐蚀性的环境场所，可对具有腐蚀性的介质中进行高精度的测量。

150 系列精密压力表采用 MPa 刻度值直接读取盘面。包括有径向、轴向及径向带边、轴向带边多种安装形式。

PRODUCT OVERVIEW

The test pressure gauge can be used to check common pressure gauge which is using in the industry process, and it can be used directly to do high precision measuring.

YB type test pressure gauge can work perfectly in the occasion without corrosion to copper alloy.

YBF type can work in various corrosion environments to do high precision measurement in the corrupt medias.

DS150 series gauge supports MPa in the scale. It includes the mounting types of under mounting directly, back mounting and under mounting with flange, back mounting with flange and so on.

YB 技术参数

精度等级：0.25%；0.4%

测量范围：0.1 至 100MPa

波登管 / 接头：0-10MPa 为磷青铜 C 型波登管与黄铜接头锡焊接。

仪表机芯：铜合金带宝石轴承

仪表连接：M20 × 1.5 外螺纹
(可选其他标准连接)

仪表外壳：铁喷黑塑

防爆片材质：橡胶

仪表表盘：不锈钢双层镜面，带有调零装置。

表针：65Mo 锰，黑色刀锋式

YB Technical specifications

Accuracy: 0.25%；0.4%

Range: 0.1 to 100MPa

Burdon tube: 10MPa-to- tin welding between phosphor bronze C-type burdon tube and brass.

Movement: Copper alloy

Connection: M20 × 1.5 out thread(Other standard connections available)

Case: Steel with black PTFE

Blast-proof flake: Rubber

Dial: Stainless Steel double glasses, with zero adjustable set.

Pointer: 65Mo, Steel, knife end

YBH 技术参数

测量范围：0~160MPa

波登管 / 接头：0- 至 -10MPa 不锈钢 C 型波登管与不锈钢接头氩弧焊接；
16- 至 -160MPa 不锈钢螺旋波登管与不锈钢接头氩弧焊接。

仪表外壳：不锈钢 本色

其他 同 YB

YBH Technical specifications

Range: 0~160MPa

Burdon tube/socket: 0-to- 10MPa argonarc welding between stainless steel C-type burdon tube and stainless steel socket.
16-to-160MPa argonarc welding between stainless steel helical tube and stainless steel socket.

Case: Stainless steel, original colour

Other features as YB

150 精密压力表

150 Test pressure gauge

YB
YBF

PB

产品展示 Product Display	类型 Type	型号标示 Code	精度 Accuracy
径向结构 Bottom Commection 	标准型 Standard Type	YB-150.AO.200 (YB-150)	BAA (0.25%) BBA (0.4%)
	不锈钢防腐型 Stainless steel corrosion-proof type	YBH-150.AO.500 (YBF-150)	BAA (0.25%) BBA (0.4%)
径向前带边结构 Bottom connnection with pront Flange 径向后带边结构 Bottom connnection with back Flange 	标准型 Standard Type	YB-150.AT.200 YB-150.AH.200 (YB-150TQ) (YB-150T)	BAA (0.25%) BBA (0.4%)
	不锈钢防腐型 Stainless steel corrosion-proof type	YBH-150.AT.500 YBH-150.AH.500 (YBF-150TQ) (YBF-150T)	BAA (0.25%) BBA (0.4%)
轴向结构 Back connnection 	标准型 Standard Type	YB-150.BO.200 (YB-150Z)	BAA (0.25%) BBA (0.4%)
	不锈钢防腐型 Stainless steel corrosion-proof type	YBH-150.BO.500 (YBF-150Z)	BAA (0.25%) BBA (0.4%)
轴向前带边结构 Back connnection with Frount Flange 	标准型 Standard Type	YB-150.BT.200 (YB-150ZT)	BAA (0.25%) BBA (0.4%)
	不锈钢防腐型 Stainless steel corrosion-proof type	YBH-150BT.500 (YBF-150ZT)	BAA (0.25%) BBA (0.4%)



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径向 Bottom mounting	主体尺寸 Body dimension						
规格 Specification	种类 Type	a	b	d	d1	ch	h
φ150	A	18	65	149	147	22	115
φ100	A	18	68	101	99	22	86
φ63A	12	43	64	62	14	55	

二、主要技术参数

执行标准: GB/T1226-2001

仪表公称直径: 63mm; 100mm; 150mm

精度等级: Φ 63 的 2.5 级 (1.6 级可选); Φ 100 1.5%; (1% 可选) Φ 150 1.5%;

测量范围: -0.1MPa -60 MPa (型号选择见量程代码表)

防护等级: IP65

正常工作环境温度 -5℃ ~ +60℃

连接螺纹: 63 外径 M14 (M14X1.5); 100 外径、150 外径(M20X1.5) 其它见选型表

仪表外壳: SUS304 本色 (抛光可选); 08F 铁壳; 可选; 内卡式罩壳

仪表接头: YTHN-SUS304 与表壳氩弧焊接;

波 登 管: YTHN-SUS316 与仪表接头氩弧焊接;

密 封 件: EPDM 丁腈橡胶

仪表充液: 甘油 (干式不充液可选)

仪表机芯: 不锈钢

仪表玻璃: 仪表平板玻璃 (双层安全玻璃、有机玻璃可选)

2. Main specification

Standard: GB/T1226-2001

Nominal diameter: 63mm; 100mm; 150mm

Accuracy: 63-class 2.5%(Option 1.6%); 100 class-1.5% (Option 1%), 150 class 1.5%

Range: (Type selection see the range code table)

Safety: IP65

Operation Temperature: -5℃ ~ +60℃

Connection Thread: Outer diameter...others see table of type selection

Case: natural color (Option polished), 08F iron case: Option; Inside bayonet ring

Socket: YTHN-SUS304 socket argon arc welder with case

Bourdon tube: YTHN-SUS316 tube argon arc welder with socket

Seal part: EPDM

Filled liquid: Glycerin (Option: Dry gauge, no liquid)

Movement: SS

Glass: Plate glass (Double-pane safety glass, Option plexiglass)

YL 系列双面显示压力表

YL series Dual Dial Indication Pressure Gauge

YL - 63

YL - 100

YL - 150

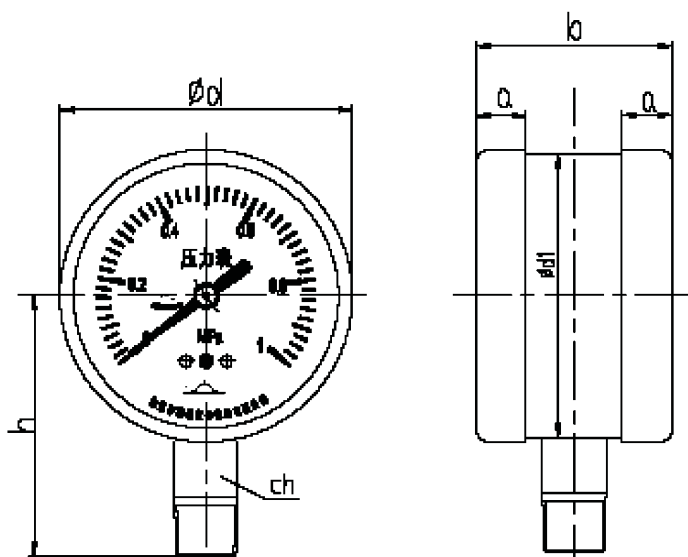


YLN 充液耐震型 YLN Liquid-filled shock resistant Gauge

YL 普通型 YL conventional type

一、几何尺寸 DIMENSION

单位 Unit (mm)



MODEL 237

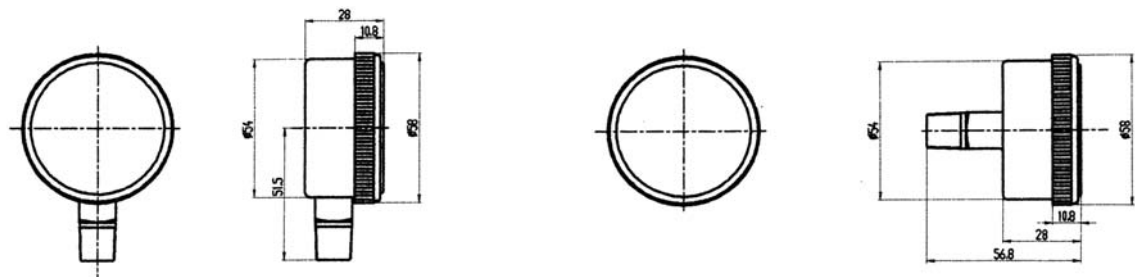
如何选型 HOW TO ORDER

	型号代码 CODE	特性说明 CHARACTERISTICS						
基本型号 Basic type	YTJA	A 级不锈钢洁净型压力表 Stainless Steel clean type pressure gauge						
	YTJB	BA 级不锈钢洁净型压力表 Stainless Steel clean type pressure gauge						
	YTJE	EP 级不锈钢洁净型压力表 Stainless Steel clean type pressure gauge						
外径 Diameter	040	Φ 40mm						
	050	Φ 50mm						
安装方式 Mounting	AO	径向无边 Stem mounting, bottom connection, no flange						
	ZO	中轴向无边 Flush mounting, back connection, no flange						
	ZT	中轴向前边 Flush mounting, back connection, front flange						
设计代码 Design	54	不锈钢外壳, 旋紧式 Stainless Steel case, screw type						
量程 Ranges	M120	1MPa 详见量程代码表 See the table of range						
连接螺纹 Connection	G1/4	G1/4"	Z14	NPT1/4"	U10	9/16-18UNF		
	V20	VCR(M)	V30	VCR(F)				

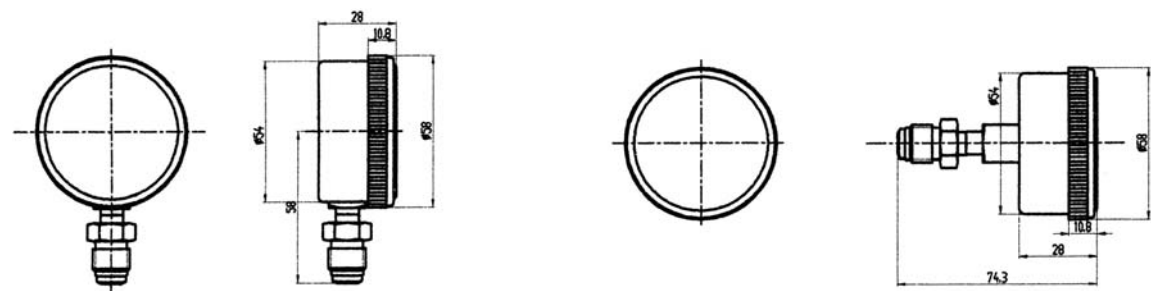
仪表外型尺寸及连接示意图

Type, dimension and connection scheme

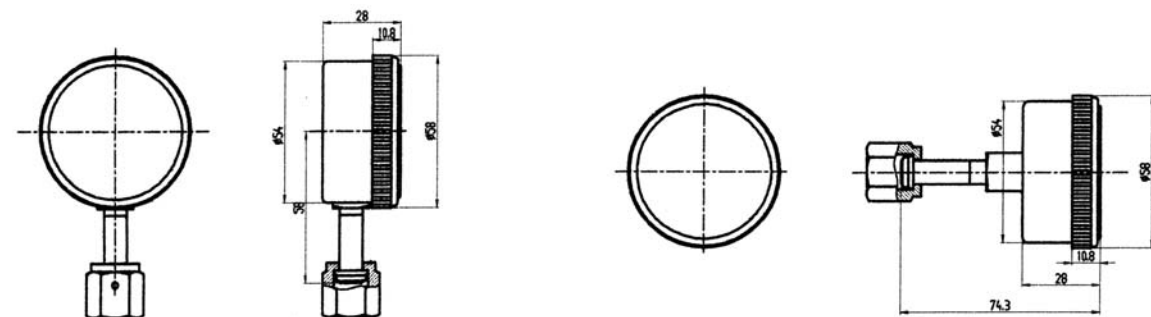
连接 Connection $G^{1/4}$ 、 $NPT^{1/4}$ 、 $9/16-18UNF$



连接 Connection $9/16-18 UNF(M)$ $1/4 VCR(M)$

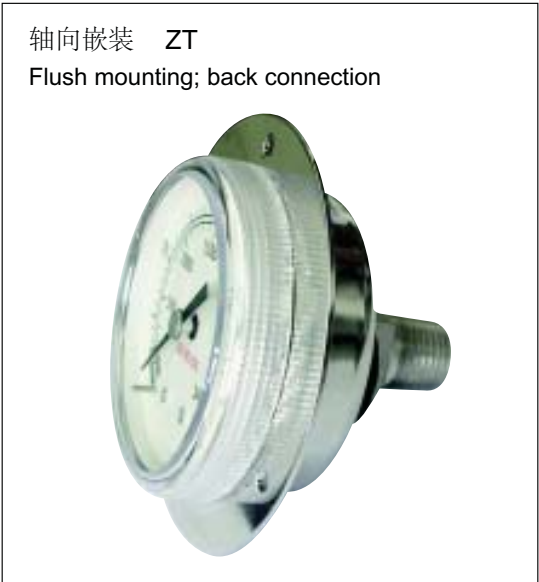
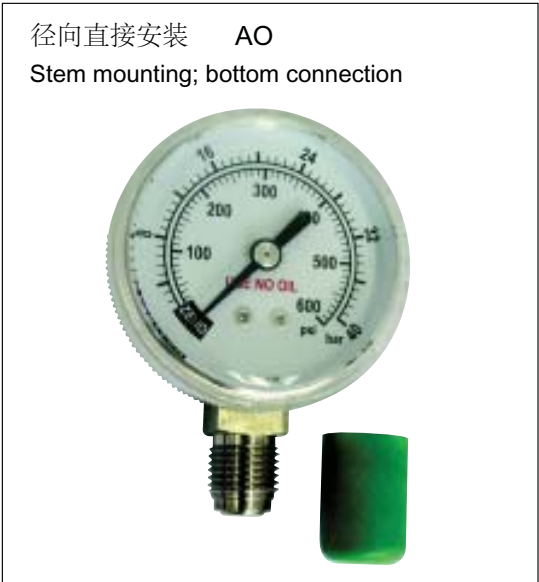


连接 Connection $1/4 VCR(F)$



MODEL YTJ

几种规格产品 Several Specification



量程范围规格代码表 TABLE OF RANGES					
选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges
M510	-0.1-0.06 MPa	M030	0.1 MPa	M160	10 MPa
M515	-0.1-0.1 MPa	M040	0.16 MPa	M180	16 MPa
M 520	-0.1-0.15 MPa	M60	0.25 MPa	M200	6 MPa
M 530	-0.1-0.3 MPa	M080	0.4 MPa	M220	10 MPa
M540	-0.1-0.5 MPa	M100	0.6 MPa	M230	16 MPa
M550	-0.1-0.9 MPa	M120	1.0 MPa	M240	25 MPa
M560	-0.1-1.5 MPa	M140	1.6 MPa	M260	35 MPa
M570	-0.1-2.4 MPa	Kg/psi; KPa/psi; psi/bar 刻度标示可选 available			

高纯净表洁净度等级

The Clean Grade of the High-Purity Pressure Gauge

A 级

清洗: 药液超声波清洗, 纯水超声波清洗

组装调试: 洁净室 (洁净度 10000)

包装: N₂ 气体吹扫, 密封包装

A Grade:

Washing: Clean with medicine liquid ultrasonic, pure water ultrasonic washing

Installation and debugging: Clean room (Clean Grade 10000)

Package: N₂ gas clear away, seal package

无氧焊接

Welding without oxygen



BA 级

零件: (气体接触部位) 机械抛光处理

清洗: 药液超声波清洗, 纯水超声波清洗

洁净度: 等级 VI (ASME B40, 1 Level)

组装调试: 洁净室 (洁净度 10000 ISO Class4)

工作台 (洁净度 100 ISO Class2)

包装: N₂ 气体吹扫, PET 袋真空密封包装

BA Grade:

Part: (Gas contact part) machine polishing

Washing: Clean with medicine liquid ultrasonic

Clean Grade: VI (ASME B40,1 Level)

Installation and debugging: Clean room (Clean Grade 10000 ISO Class4)

Working desk (Clean Grade 100 ISO Class2)

Package: N₂ gas clear away, seal package with vacuum PET bag

纯水超声波清洗

Pure water ultrasonic washing



EP 级

零件: (气体接触部位) 电解抛光

清洗: 药液超声波清洗, 纯水超声波清洗

洁净度: (ISO Class 1) 在 0.1 μm 以上的肉眼

不可见微粒子数量 10 个以内。

组装调试: 洁净室 (洁净度 1000 ISO Class3) 工作台 (洁净度 100 ISO Class2)

包装: N₂ 气体吹扫, PET 袋真空密封包装

EP Grade:

Part: (Gas contact part) electrolyte polishing

Washing: Clean with medicine liquid ultrasonic

Clean Grade: (ISO Class 1) less than 10 corpuscule which is bigger than 0.1 μm can not seen with people eyes.

Installation and debugging: Clean room (Clean Grade 1000 ISO Class3)

Working desk (Clean Grade 100 ISO Class2)

Package: N₂ gas clear away, seal package with vacuum PET bag

洁净室操作

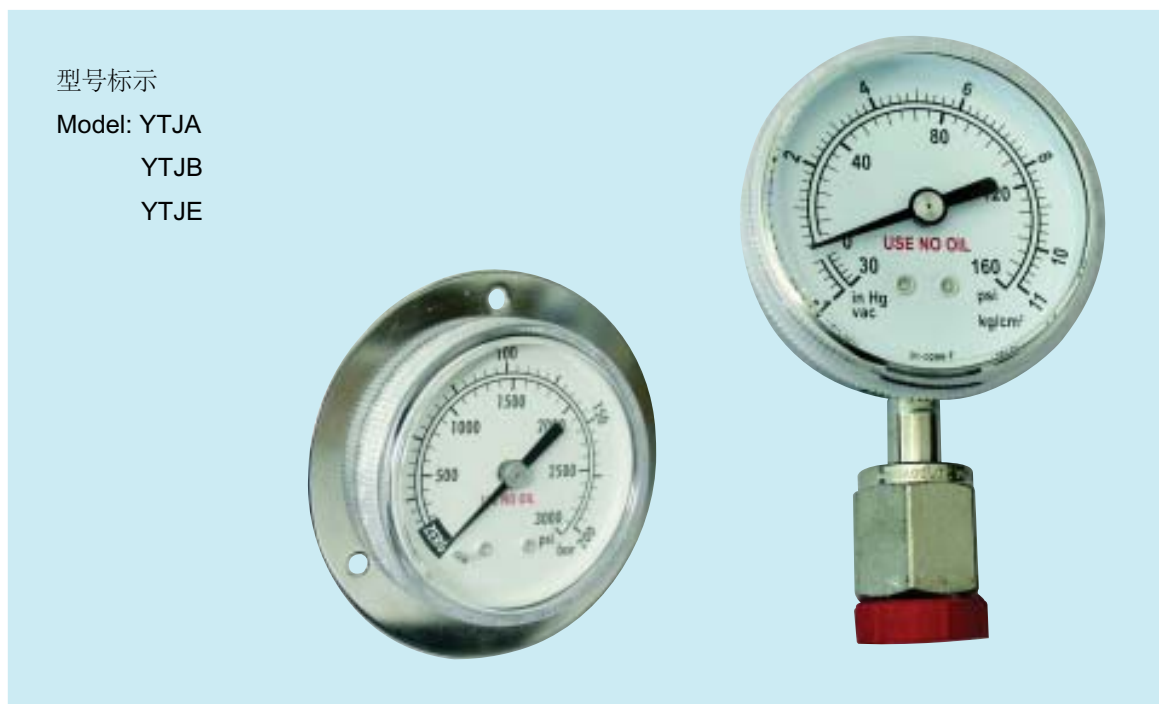
Clean room operation



高纯净型压力表

YTJ

High Purity Pressure Gauge



产品概述:

YTJ 高纯净型压力表主要应用于半导体领域。产品根据洁净度等级, 可分为 (YTJA) A 级 (YTJB) / BA 级 (YTJE) / EP 级 3 种类型

- ◆ 根据使用特性可选择 SUS316Ti、SUS316、SUS316L 等不同材料的测压元件。
- ◆ 支持 G1/4、NPT1/4、9/16-18UNF、1/4VCR (M)、1/4VCR (F) 等多种连接形式。
- ◆ 所有零部件都经过超声波纯水处理。
- ◆ 选用无氧真空室的高纯氩气保护焊接作业。
- ◆ 产品经过严格的耐压及气密性检测。气密性可达到 $1 \times 10^{-10} \text{ Pa} \cdot \text{m}^3/\text{s}$ 。
- ◆ 测量范围: -0.1~0 至 0-35MPa。
- ◆ 示值精度: 1.5%; 2.5%。

Brief introduction

The gauge is mainly used in semiconductor. It could be sorted to three kinds as class A, class BA and class EP by their purity degrees.

- ◆ It could choose the pressure elements of SUS316Ti, SUS316, SUS316L by your demand.
- ◆ It supports connection types as G1/4, NPT1/4, 9/16-18UNF, 1/4VCR(M), 1/4VCR(F) and so on.
- ◆ All the parts would be dealt with by ultrasonic pure-water.
- ◆ Protect welding work with the high purity argon.
- ◆ With strict detection of compression resistance and airproof which could achieve $1 \times 10^{-9} \text{ Pa} \cdot \text{m}^3/\text{s}$.
- ◆ Measure ranges: 0.1~0MPa to 0-35MPa.
- ◆ Accuracy: 1.5%; 2.5%.

如何选型 HOW TO ORDER

	型号代码 Code	特性说明 Introduction							
Basic type 基本型号	YQHB	不锈钢内机密闭型 Stainless Steel Internals, Obturation							
	YQHNB	不锈钢内机充液耐震型 (φ 160 没有) Stainless Steel Internals, Liquid filling, Vibration-proof (φ 160 unavailable)							
Diameter 外径	063	φ 63mm							
	100	φ 100mm							
	160	φ 160mm							
Mounting 安装方式	AO	径向直接安装 Bottom mounting							
	AT	径向前边安装 Bottom mounting with front flange							
Design 设计代码	301	内卡坚固安全型外壳压力表 Inside bayonet, solid case							
Ranges 量程	M120	1MPa (其它规格详见量程代码表) 1MPa (See range table)							
Connection 连接螺纹	M14	M14x1.5	G1/4	G1/4					
	M20	M20x1.5	G3/8	G3/8					
	G12	G1/2	R38	ZG3/8					
	Z12	NPT1/2	Z38	NPT3/8					
Options 备选项	GKB	抛光处理 Polishing	TPB	特殊仪表盘面 Special dial					
	PHD	缓冲螺钉 Buffer screw	SEB	聚碳酸脂玻璃 Polycarbonate glass					
	SBB	有机玻璃 Organic glass	BEA	1.6 级精度 Accuray 1.6%					
	SYB	充硅油 Silicone oil	FWP	加不锈钢位号牌 Add Stainless Steel label					

