

压力仪表



Andy Chen

International Sales Manager

Anhui AoLiShen Specialty Cable & Instrument Co., Ltd. (ALS)

Tel: +86-21-51001895 // Fax: +86-21-51561795 // Mob: +86-15901956096

Email: andyfeichen@hotmail.com (MSN) // andy.chen@alscable.com

www.alscable.com // Skype: andyfeichen

MIC showroom: <http://fcinstrument.en.made-in-china.com>

一般压力表 压力真空表 真空表

General Pressure Gauge/Pressure Vacuum Gauge/ Vacuum Gauge



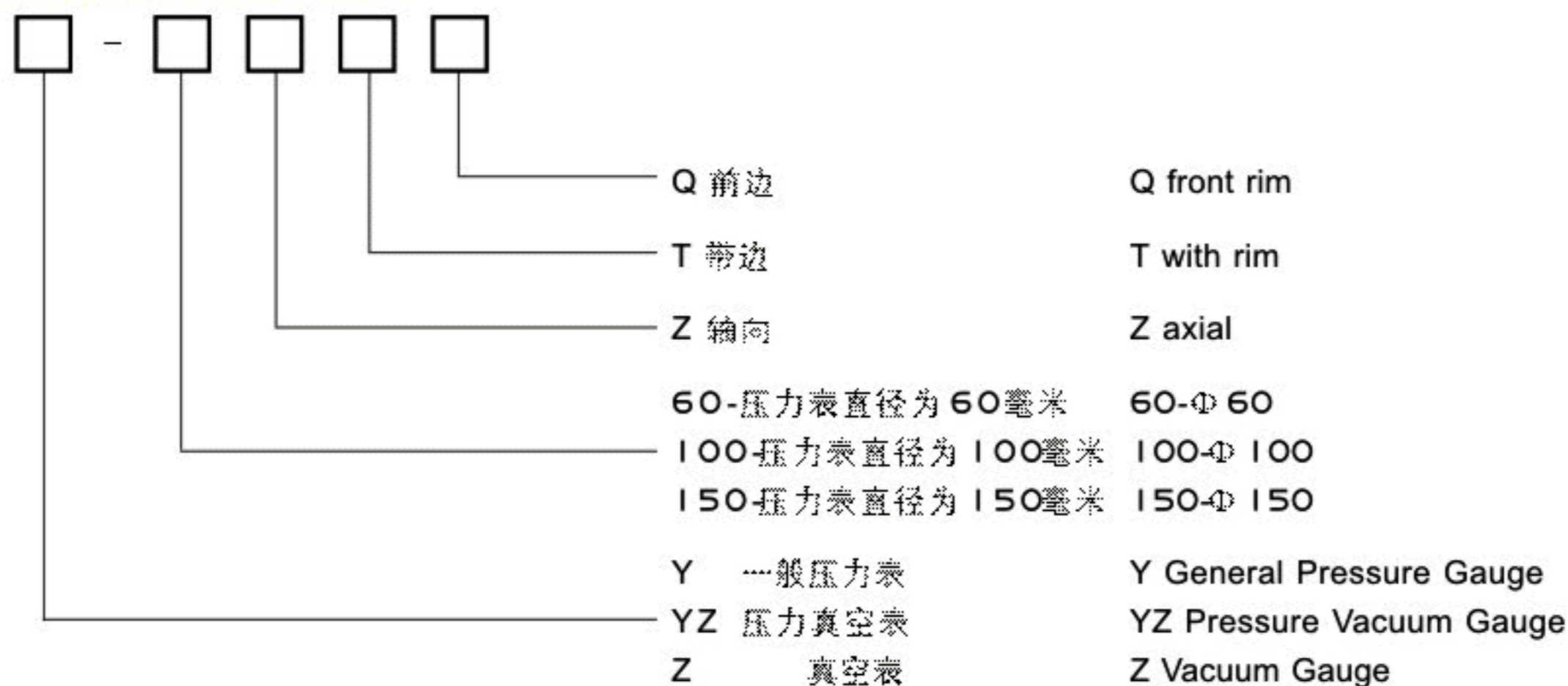
概述

该系列压力表广泛应用于输送气体、液体的管道及容器中测量无爆炸危险、无结晶体、不凝固及对合金不起腐蚀作用的液体、气体、蒸汽等介质的压力大小。具有体积小、性能安全可靠、显示清晰等优点。

Description:

The series of pressure gauges are widely used to measure the pressure of liquid, gas and vapor without explosion danger, crystallization, solidification, or corrosion on alloy in container and pipe transporting gas, liquid. The gauges have many advantages such as small volume, high reliability and safety, explicit display, etc.

型号命名 Type Naming



例: Y-100ZTQ 0~1MPa 直径为 100 毫米, 轴向带前边测压范围 0~1MPa 的压力表

Example: Y-100ZTQ 0~1MPa axial pressure gauge with front rim, 100 for diameter

技术参数 Technical Parameters

产品型号 Type	Y-60 YZ-60 Z-60	Y-100 YZ-100 Z-100	Y-150 YZ-150 Z-150	Y-200
公称直径(mm) Nominal Diameter	Φ 60	Φ 100	Φ 150	Φ 200
接头螺纹 Connection Thread	M14 x 1.5	M20 x 1.5		
精确度等级 Accuracy	2.5	1.0; 1.5		
测量范围(MPa) Measuring Range	Y	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;		
	YZ	-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		
	Z	-0.1~0		
使用环境条件 Environment Condition	温度 -40~70℃; 相对湿度 ≤ 85% Temperature :-40~70℃; Relative Humidity < 85%			

特种压力表 Special Pressure Gauge



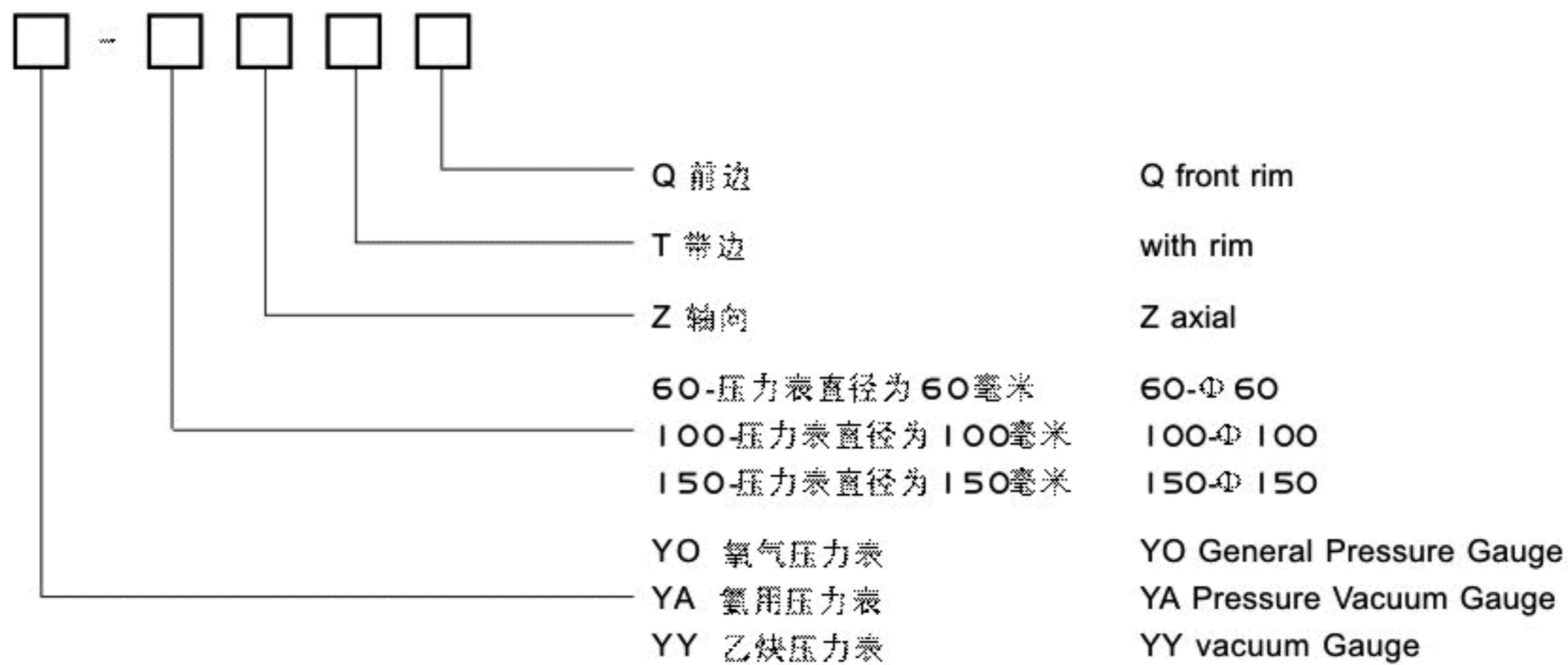
概述

YO 系列氧气压力表:适用于测量氧气的压力
 YA 系列氨用压力表:适用于测量氨介质的压力
 YY 系列乙炔压力表:适用于测量乙炔气体的压力

Description:

YO series Oxygen Pressure Gauge:for measuring oxygen pressure
 YA series Ammonia Pressure Gauge:for measuring ammonia pressure
 YY series Acetylene Pressure Gauge:for measuring acetylene pressure

型号命名 Type Naming



例:YO-100 0~1MPa直径为 100毫米测压范围 0~1MPa的氧气压力表

Example: YO-100 0~1MPa oxygen pressure gauge, 100 for diameter

技术参数

特种压力仪表的技术参数与一般压力表相同

Technical Parameters

They remain the same as those of general pressure gauge.

不锈钢压力表

Stainless Steel Pressure Gauge



概述

该系列压力表的零件采用耐腐蚀的不锈钢及耐腐蚀的合金材料制成，使仪表具有良好的耐腐蚀性能，可广泛应用于石油、化工、矿山、机械、电力及食品行业。直接测量不结晶体，但有腐蚀性的气体、液体的压力。

Description

We adopt corrosion-resistant stainless steel and alloy for spare parts of the series of pressure gauges to make them have better corrosion-resistant performance. The gauges are widely used in petroleum, chemical, metallurgy, mining, machinery, power and foodstuff industries to directly measure the pressure of corrosive gas and liquid without crystallization.

规格示意 Type Naming



60- Φ 60
100- Φ 100
150- Φ 150

YBF Stainless Steel Pressure Gauge
YBFN Stainless Steel Shock-proof Pressure Gauge

例: YBF-100 0~1MPa 直径为100毫米, 测量范围0~1MPa的不锈钢压力表

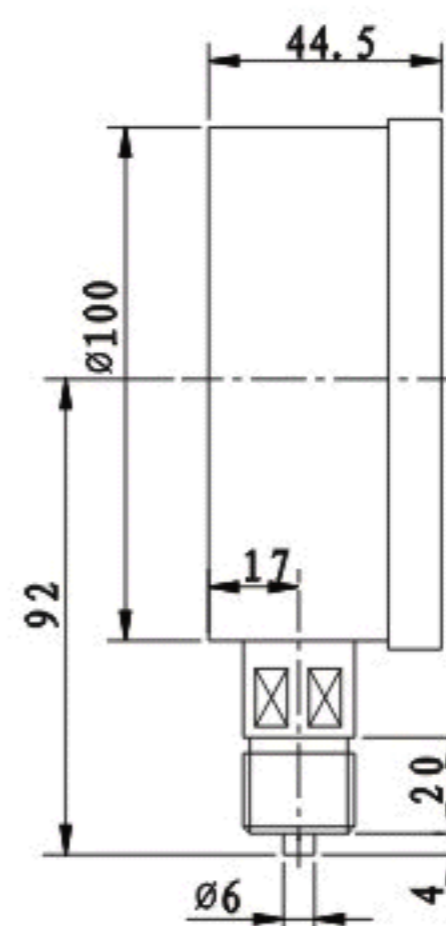
Example: YBF-100 0~1MPa stainless steel pressure gauge, 100 for diameter

技术参数 Technical Parameters

公称直径: Φ 60 Φ 100 Φ 150
结构形式: 径向直接安装式
接头螺纹: M20 X 1.5
精确度等级: 1.5; 2.5
测量范围: 与一般压力表的测量范围相同
环境条件: 温度 -40~70℃; 相对湿度 \leq 85%
耐振等级: YBF 为 V·H·3; YBFN 为 V·H·4
材料: 0Cr18Ni9Ti 1Cr18Ni9Ti 316L 等

Nominal Diameter: Φ 100
Structure: direct radial mounting
Connection Thread: M20 X 1.5
Accuracy: 1.5; 2.5
Measuring Range: -0.1~0MPa; -0.1~0.15 to -0.1~2.4MPa;
0~0.1 to 0~60MPa
Environment Condition: Temperature -40~70℃; Relative Humidity \leq 85%
Shock-proof Class: V·H·3 for YBF type V·H·4 for YBFN type
Material: 0Cr18Ni9Ti 1Cr18Ni9Ti 316L, etc.

外形尺寸 Outer Figure & Sizes



YN 系列耐振压力表

YN Series Shock-proof Pressure Gauge



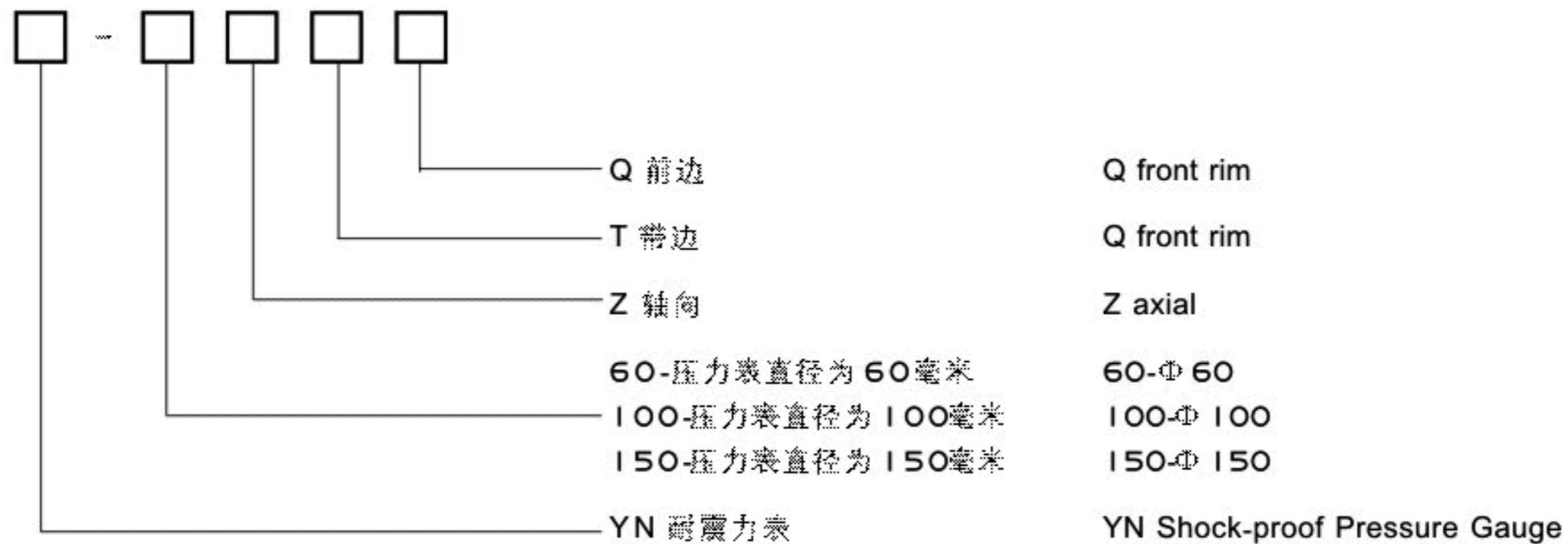
概述

YN 系列耐振压力表具有良好的抗振性能，特别适用于有机机械振动和介质脉动的工作环境。可测量无爆炸危险、无结晶体、不凝固以及对铜合金不起腐蚀作用的液体、气体、蒸气等介质的压力。

Description:

YN series of pressure gauges have better performance resisting shock, especially suitable for working environment with mechanical shock and medium pulsation. The gauges are used to measure the pressure of liquid, gas and vapor without explosion danger, crystallization, solidification, or corrosion on Cu alloy.

规格示意 Type Naming



例: Y-100ZTQ 0~1MPa 代表直径为 100 毫米, 轴向带前边测压范围 0~1MPa 的耐振压力表

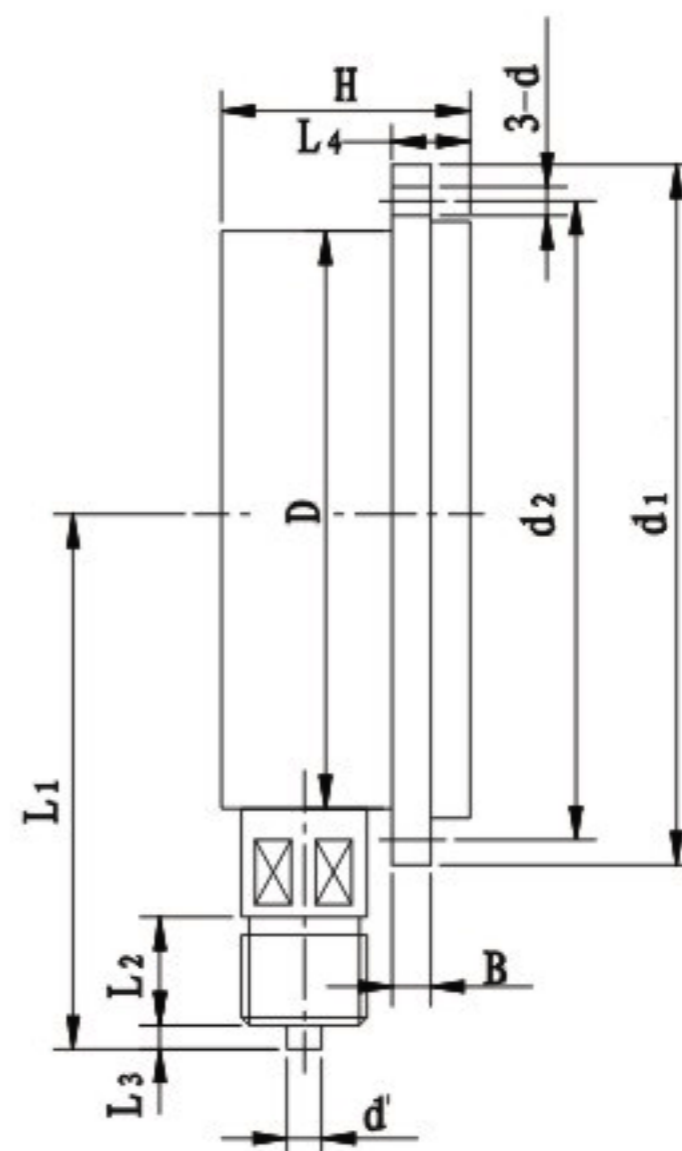
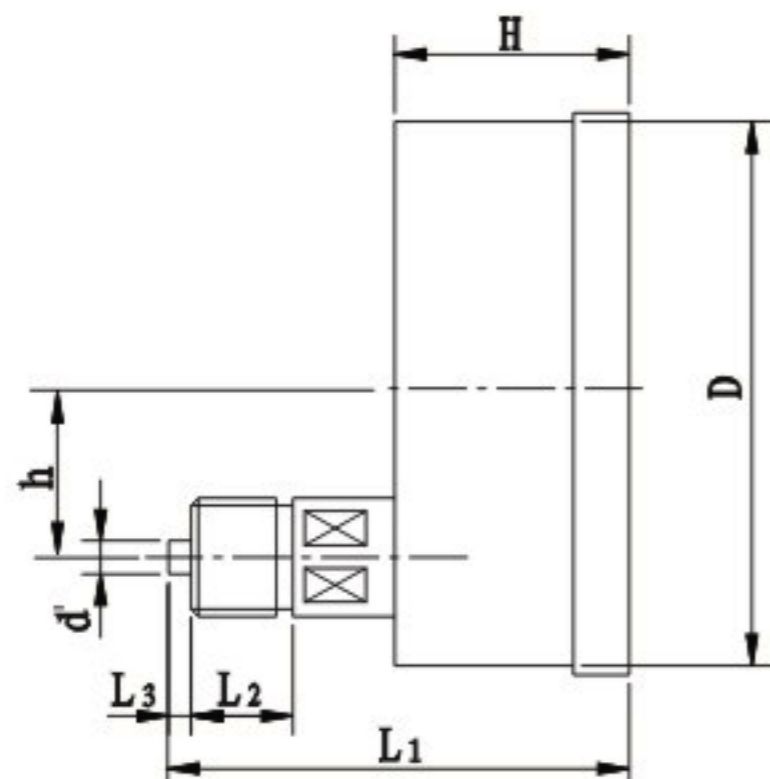
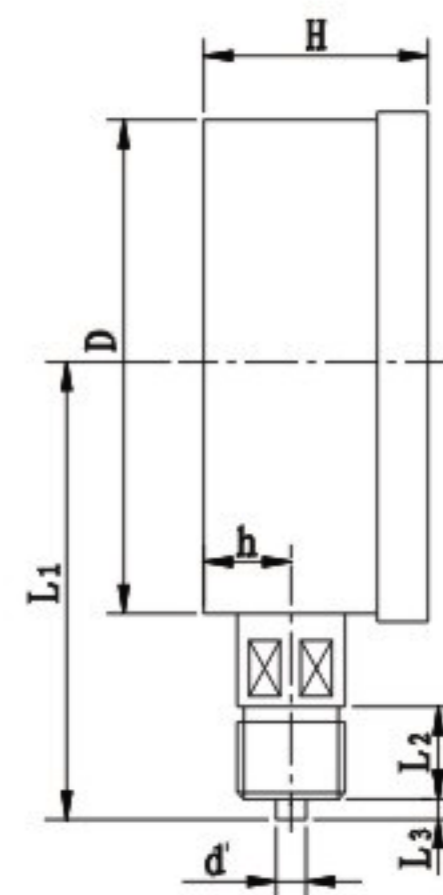
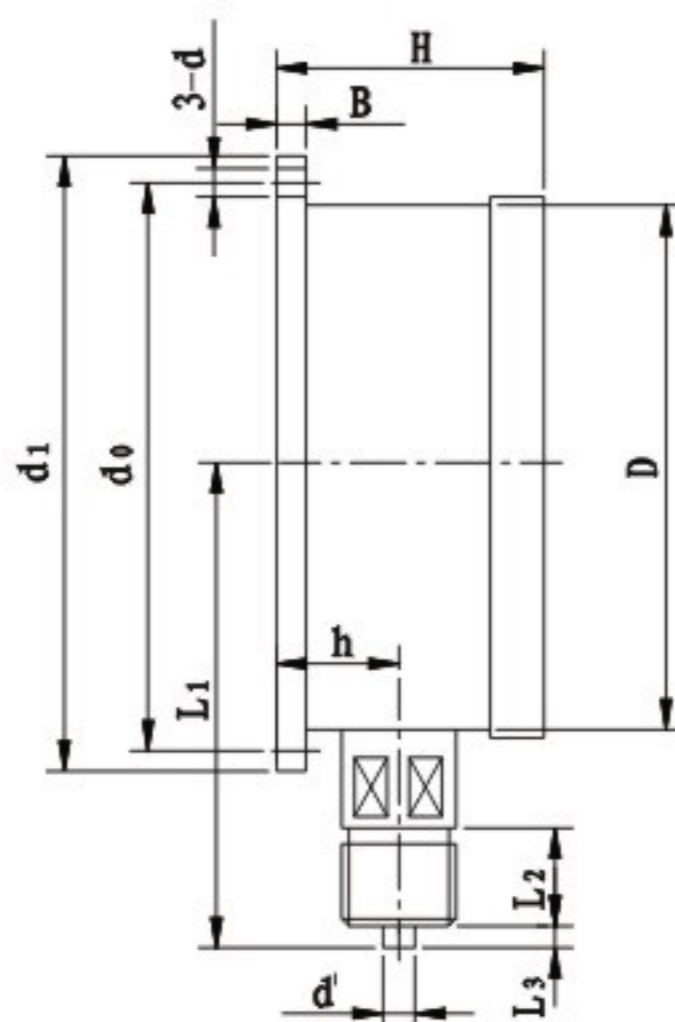
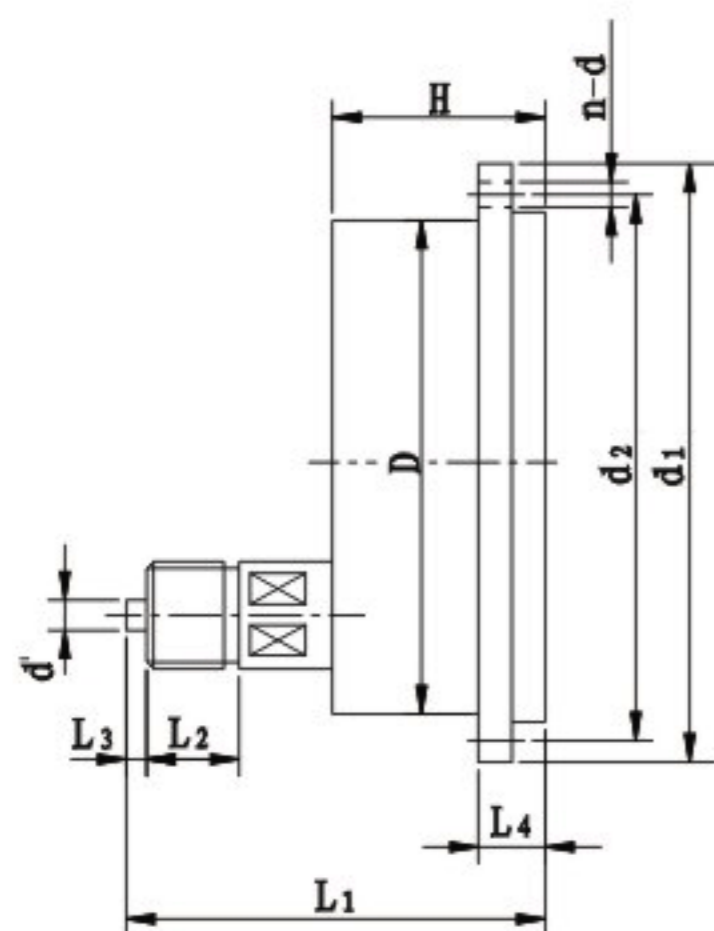
Example: YN-100ZTQ 0~1Mpa axial shock-proof pressure gauge with front rim, 100 for diameter

技术参数 Technical Parameters

产品型号 Type	YN-60	YN-100	YN-150	YN-200
公称直径(mm) Nominal Diameter	Φ 60	Φ 100	Φ 150	Φ 200
接头螺纹 Connection Screw	M14 x 1.5	M20 x 1.5		
精确度等级 Accuracy	2.5	1.0; 1.5		
测量范围(MPa) Measuring Range	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;			
耐振等级 Shock-proof Class	V.H.4			
使用环境条件 Environment Condition Temperature	温度 -40~70℃; 相对湿度 ≤ 85% Temperature: -40~70℃; Relative Humidity ≤ 85%			

外形尺寸 **Sizes**

型号 Types	D	H	h	L ₁	L ₂	L ₃	L ₄	B	d'	d ₁	d ₂	d
YN-60	Φ 60	32.5	14	59	14	2			Φ 5			
YN-60ZTQ	Φ 60	32.5		62	14	2	12	2.5	Φ 5	Φ 85	Φ 75	Φ 5
YN-60Z	Φ 60	32.5		62	14	2			Φ 5			
YN-100	Φ 100	44	17	92	20	4		3	Φ 6			
YN-100T	Φ 100	47	17	94	20	4	16	3	Φ 6	Φ 130	Φ 118	Φ 6
YN-100ZTQ	Φ 100	44	34	86	20	4			Φ 6	Φ 132	Φ 118	Φ 6
YN-100Z	Φ 100	44	34	86	20	4			Φ 6			
YN-100TQ	Φ 100	47	17	94	20	4	5.5	3	Φ 6	Φ 130	Φ 118	Φ 6
YN-150	Φ 150	53	22	115	20	4			Φ 6			
YN-150ZTQ	Φ 150	48	55	92	20	4	21	3	Φ 6	Φ 117	Φ 165	Φ 6
YN-150Z	Φ 150	48	55	92	20	4			Φ 6			
YN-200	Φ 200	53	22	142	20	4			Φ 6			
YN-200ZTQ	Φ 200	48	80	92	20	4	21	3	Φ 6	Φ 227	Φ 215	Φ 6
YN-200Z	Φ 200	48	80	92	20	4			Φ 6			



YM 系列隔膜式压力表、YMN 系列隔膜式耐振压力表

YM Series & YMN Series Diaphragm Pressure Gauges



概述

隔膜式压力表是由膜片隔离装置和配用压力表两大部分组成。广泛应用于石油、化工、医药、食品、造纸等行业测量具有强腐蚀性、高粘度、易结晶及含有固体颗粒的液体介质压力

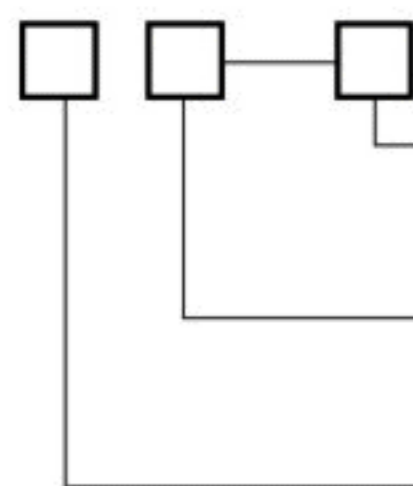
隔膜式耐振压力表由于其配用表头采用耐振压力表故有效地消除了介质脉动和环境振动所产生的影响，使仪表指示稳定、可靠，同时亦提高了仪表的使用寿命。

Description:

Diaphragm pressure gauge is composed of diaphragm separation device and pressure gauge matched. It is widely used in petroleum, chemical, medicine, foodstuff, and papermaking industries to measure the pressure of liquid media with strong corrosion, high viscosity, easy crystallization or solid granule.

Shock-proof pressure gauge is adopted as matched gauge head of shock-proof diaphragm pressure gauge, which avoids the effect of medium pulsation and environment shock and results in stable and reliable indication and improvement of life expectancy of the gauge.

规格示意 Type Naming



100-压力表直径为 100 毫米
150-压力表直径为 150 毫米
L 螺纹连接
F 法兰连接
YM 隔膜式压力表
YMN 隔膜式耐振隔膜压力表

100-Φ 100
150-Φ 150
L Thread Connection
F Flange Connection
YM Spacer Type Pressure Gauge
YMN Shock-proof Spacer Type Pressure Gauge

例: YMNF-100 0~1MPa 压力表直径为 100 毫米, 测压范围为 0~1MPa 法兰连接的压力表

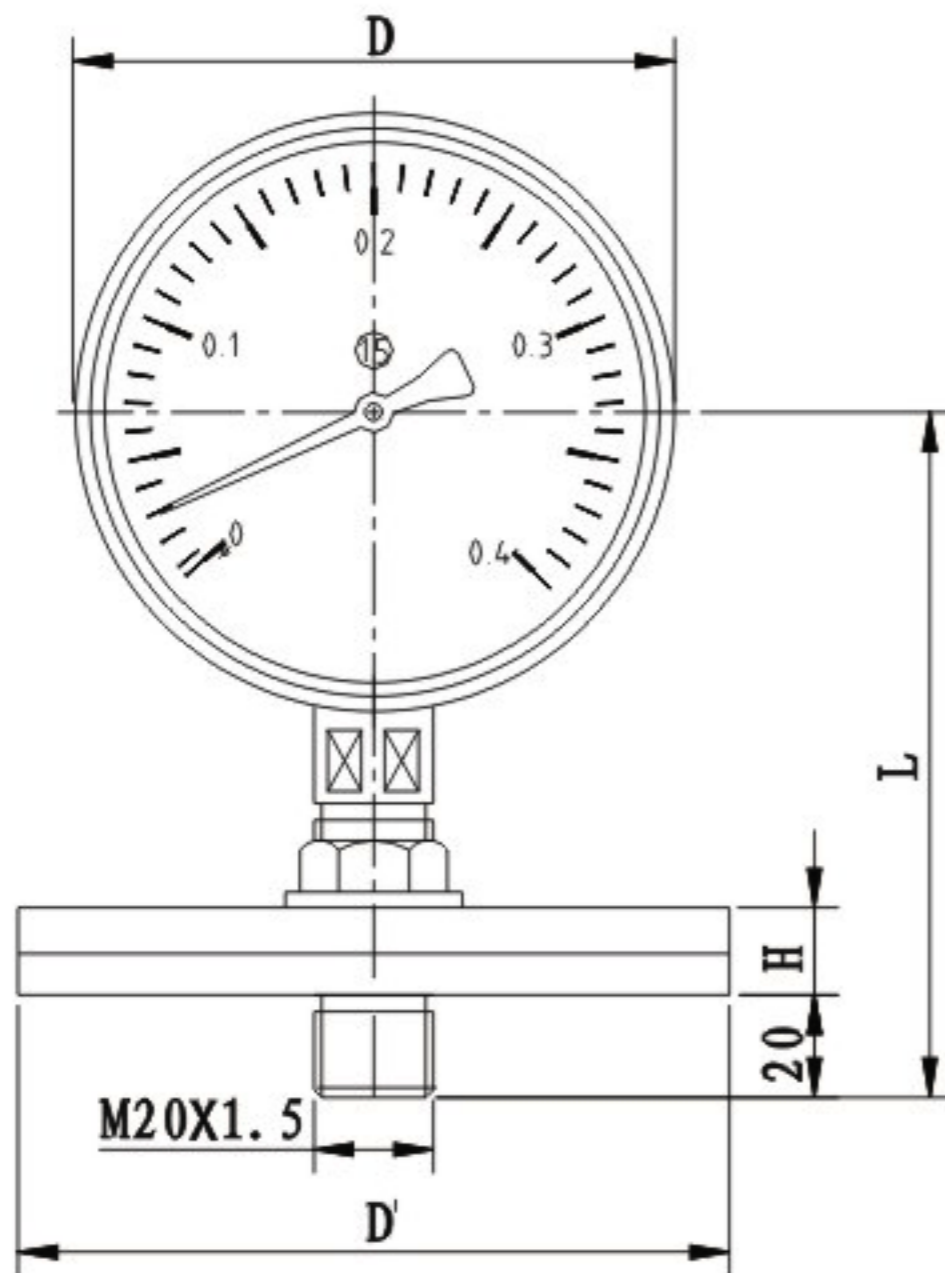
Example: YMNF-100 0~1MPa axial shock-proof spacer type pressure gauge with front rim, 100 for diameter

技术参数 Technical Parameters

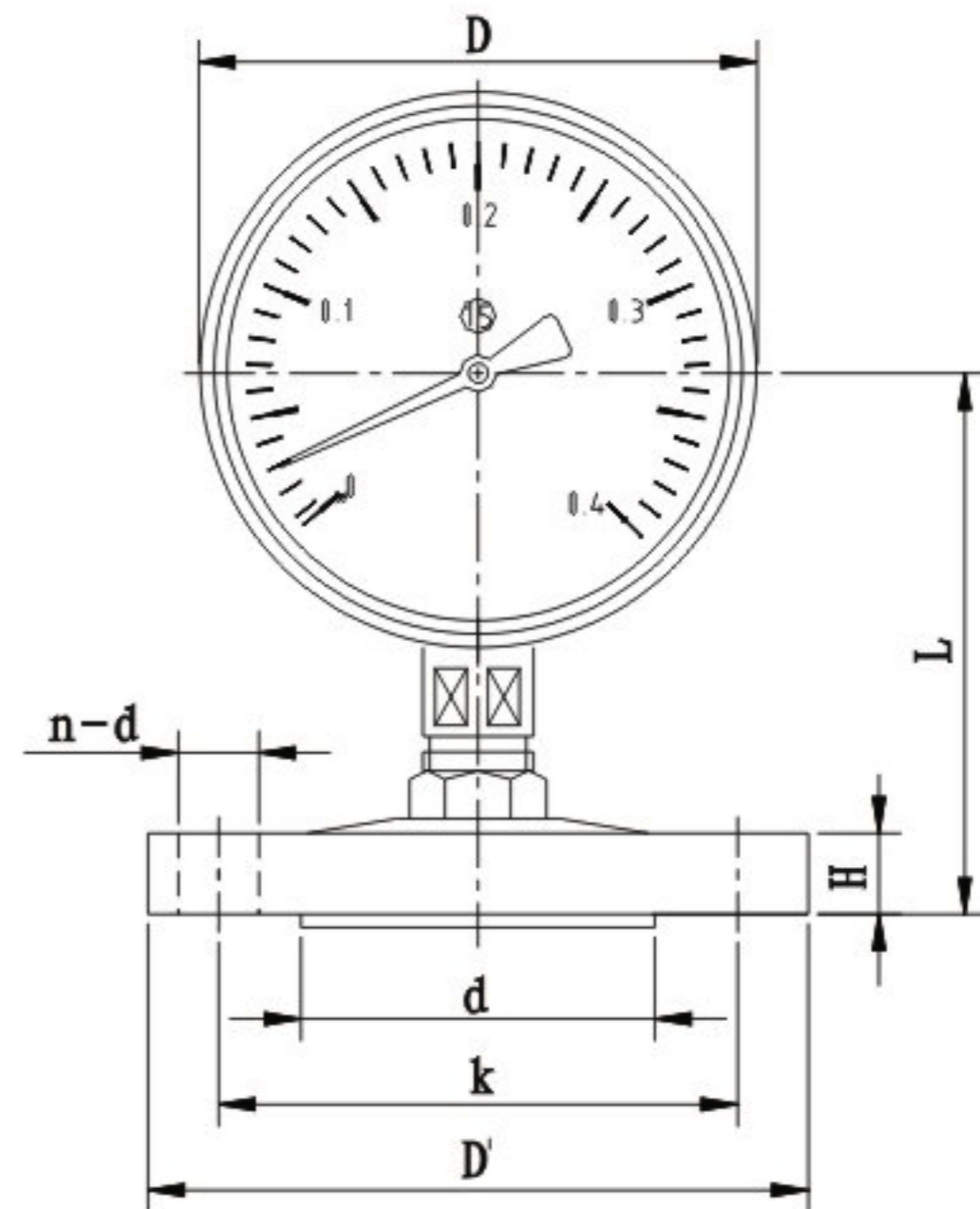
产品型号 Type	YML-100 YML-150	YMNL-100 YMNL-150	YMF-100 YMF-150	YMNF-100 YMN-150
连接方式	螺纹连接 Thread Connection M20 X 1.5		法兰连接 Flange Connection (按 GB9113-88)(as GB9113-88)	
精确度等级 Accuracy	1.5 ; 2.5			
测量范围(MPa) Measuring Range	0~0.1; 0~0.16; 0~0.25; 0~0.4; 0~0.6; 0~1; 0~1.6; 0~2.5; 0~4; 0~6;			
使用环境条件 Environment Condition Temperature	温度 -40~70℃; 相对湿度 ≤ 85% Temperature -40~70℃; Relative Humidity ≤ 85%			
耐振等级 Shock-Proof Class	V-H-3	V-H-4	-N-3	V-H-4
隔离表头 Gauge Head	公称直径 (mm) Nominal Diameter	Φ 100 Φ 150		
	类别 Type	一般 General	耐震 Shock-proof	耐震 Shock-proof
隔离装置 Diaphragm Separation Device	精度等级 Accuracy	1.5; 2.5		
	法兰材料 Separation Device	1Cr18Ni9Ti Flange Material 1Cr18Ni9Ti		
	膜片材料 Spacer Material	不锈钢、哈氏合金、蒙乃尔合金等 Stainless Steel, H Alloy, M Alloy, etc.		
	填充工作液 Filling Liquid	甲基硅油、甘油等 Methyl Silica Oil, Glycerin, etc.		

外形尺寸 Size

型号 Type	D	H	h	0~0.16MPa				0.25~6MPa			
				D'	d	k	n-d	D'	d	k	n-d
YML-100 YNML-100	Φ 100	138	24	Φ 92				Φ 92			
YML-150 YNML-150	Φ 150	162	24	Φ 92			4-Φ 18 4-Φ 18	Φ 92			
YMF-100 YNMF-150	Φ 100	117	20	Φ 140	Φ 76	Φ 100	4-Φ 18	Φ 140	Φ 76	Φ 100	4-Φ 18
YMF-100 YNMF-150	Φ 150	141	20	Φ 140	Φ 76	Φ 100	4-Φ 18	Φ 140	Φ 76	Φ 100	4-Φ 18



YML 系列



YMF 系列

YP 系列膜片式压力表 YPF系列防腐膜片式压力表

YP Series Spacer Type Pressure Gauge YPF Series Corrosion-resistant Spacer Type Pressure Gauge



概述

YP型膜片压力表用于测量对钢及铜等金属不起腐蚀作用的液体、气体等各种介质的压力和负压; YPF型膜片压力表可用于测量具有腐蚀性的液体、气体等各种介质的压力和负压。

结构原理

结构:

膜片压力表由膜片部件、机芯部件、指针部件及外壳连接部件四大部分组成。

原理:

膜片压力表是膜片作为仪表的弹性元件,当被测介质的压力作用到膜片上,膜片产生一个位移,再经过机芯部件、指针部件的工作使要测的压力清楚地刻度盘上指示出来。

Description

YP type spacer pressure gauge is used to measure pressure or pressure loading of liquid, gas, and other media without corrosion on metal such as steel, copper, and so on. YPF type spacer pressure gauge is used to measure pressure or pressure loading of corrosive liquid, gas, and other media.

Structure & Theory

Structure

Spacer pressure gauge consists of 4 parts including spacer part, gauge core part, dial part and shell connection part.

Theory

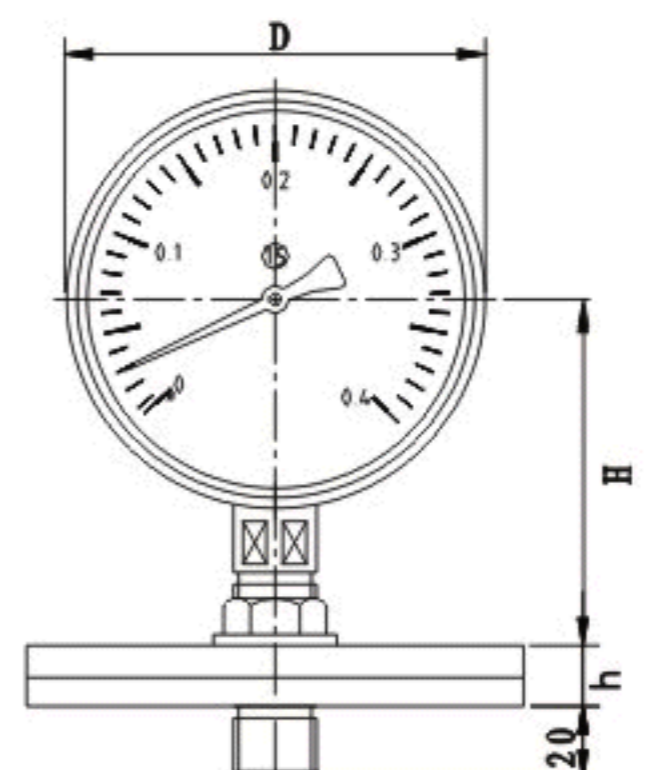
The spacer is strength component of the gauge. When pressure of tested medium has its effect on the spacer, which results in spacer shift. Through operation of core part and dial part, tested pressure could be clearly indicated on the dial.

技术参数 Technical Parameters

型号 Type	测量范围 (MPa) Measuring Range	精确度等级 Accuracy	备注 Remarks
YP-100	0~0.1 0~0.16	2.5	一般 General
YPF-100	0~0.25 0~0.4		防腐 Corrosion Resistance
YP-150	0~0.6 0~1		一般 General
YPF-150	0~1.6 0~2.5		防腐 Corrosion Resistance
	-0.1~0 -0.1~0.06		

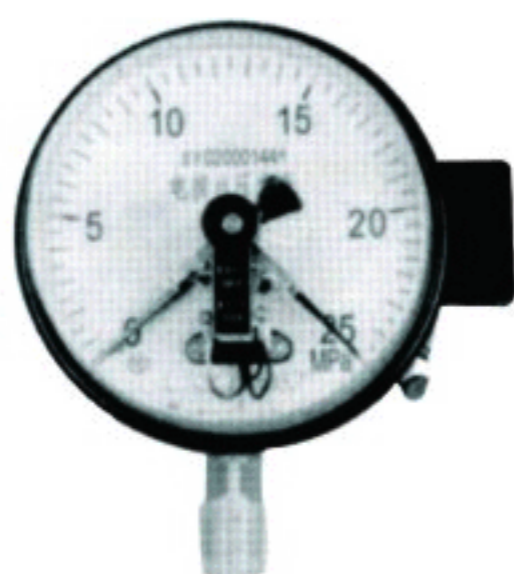
外形尺寸 (mm) Figure & Size (mm)

型号 Type	D	H	h
YP-100 YPF-100	Φ 100	61	69
YP-150 YPF-150	Φ 150	88	75



电接点压力表

Electric Contact Pressure Gauge



概述

该系列电接点压力表适用于一般压力表允许的工作条件。配以相应的电气元器件，能对被测的压力输出信号和系统自动控制。

YXC 系列产品具有工作可靠，接点功率大的优点；

YXN 系列产品适用于有机械振动和介质脉动的条件，具有良好的抗振性能。

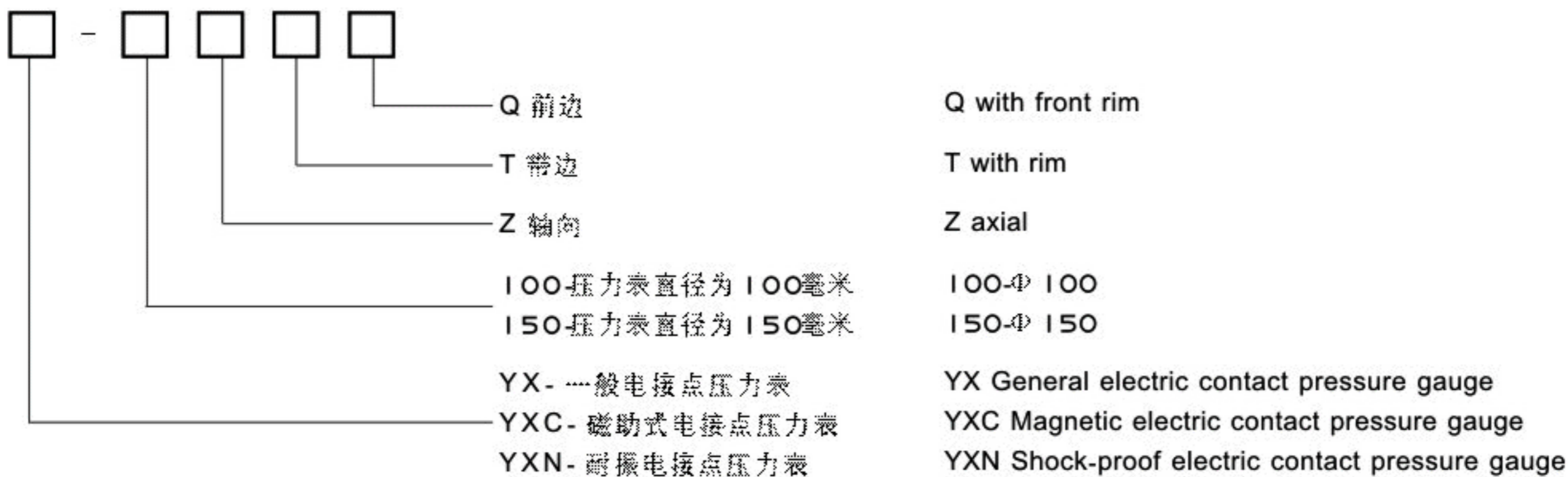
Description

The series of electric contact pressure gauges are suitable with the same working condition as general pressure gauges. Matched with relevant electric components, they could be used to transmit pressure signal of tested media and conduct automatic system control.

YXC series gauges have advantages including high reliability and big contact power.

YXN series gauges are suitable for environment with mechanical shock and media pulsation, they have better performance resisting shock.

规格示意 Type Naming



例: YXC-100ZTQ 直径为 100毫米，轴向带前边的磁助电接点压力表

Example: YXC-100ZTQ axial magnetic electric contact pressure gauge with front rim, diameter 100

额定负载参考值 Reference Value of Rated Loading

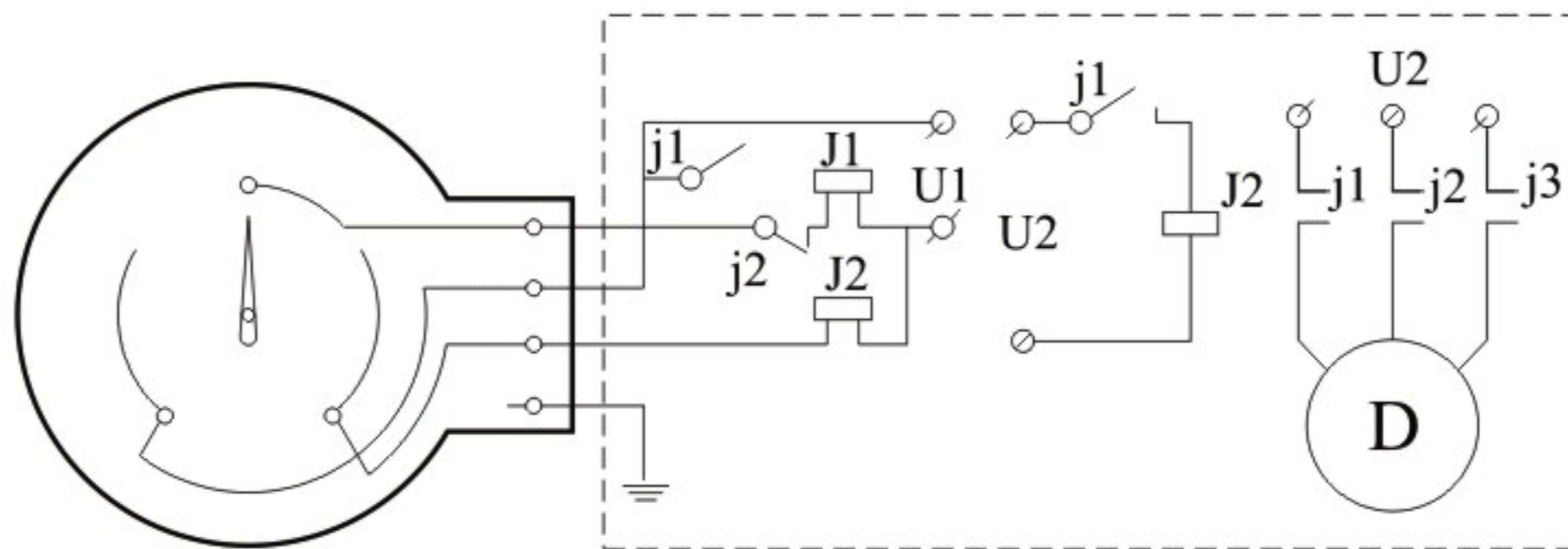
电压 (V) Voltage (V)	电阻性负载电流 (A) Resistant Loading Current		电感性负载电流(A) Inductance Loading Current (A)
	AC	DC	
380	0.08		0.045
220	0.135	0.13	0.065
110	0.27	0.25	0.13
50	0.5	0.4	0.2
<40	≤ 1		

技术参数 Technical Parameters

产品型号 Type	YXC-100 YXN-100	YXC-150 YXN-150
公称直径 (mm)Nominal Diameter	Φ 100	Φ 150
接头螺纹 Connection Thread	M20 x 1.5	
精确度等级 Accuracy	1.0 ; 1.5	
测量范围 (MPa) Measuring Range	-0.1~0.15; -0.1~2.4; 0~1; 0~10;	-0.1~0.3; 0~0.16; 0~1.6; 0~16;
使用环境条件 Environment Condition	温度 -40~70℃;相对湿度 ≤ 85% Temperature -40~70℃; Relative Humidity ≤ 85%	
耐振等级 Shock-proof Class	YXC 系列 V-H-3;YXN 系列 V-H-4 V-H-3for YXC type; V-H-4for YXN type	
电接点装置的技术参数 Technical Parameter of Electric Contact Device	最高工作电压:DC 220V;AC 380V Max. Working Voltage: DC220V; AC380V 触点最大功率:30VA(阻性负载) Max. Power on Contact: 30VA (Resistant Loading) 控制方式:可调节上、下限缓行磁助接点开关 Control Way: by adjusting magnetic contact switch	

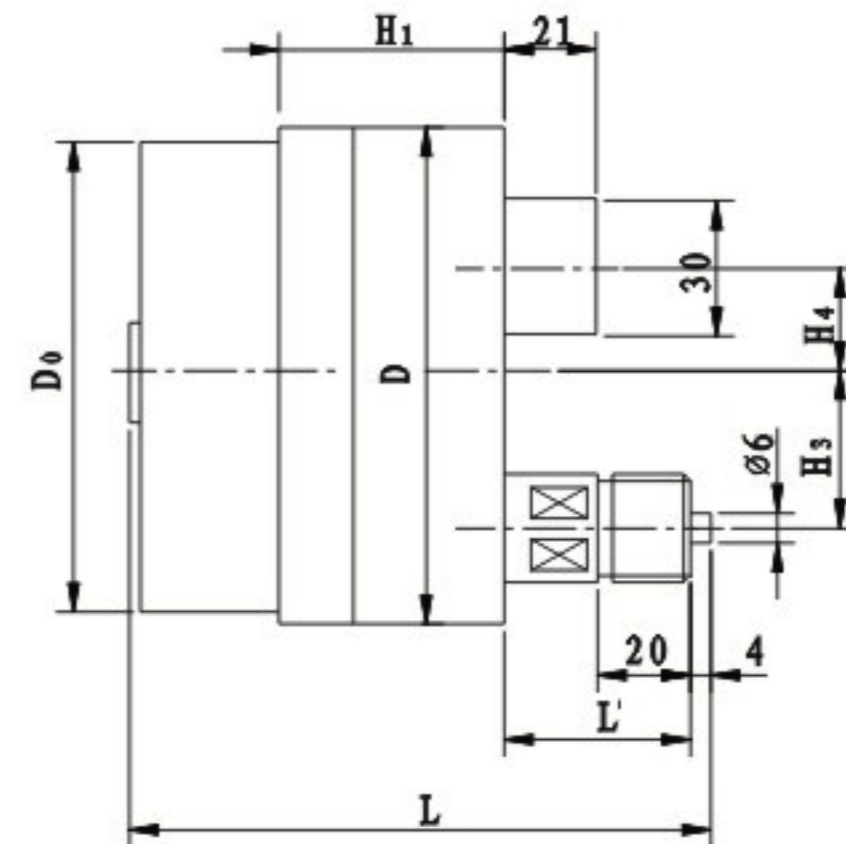
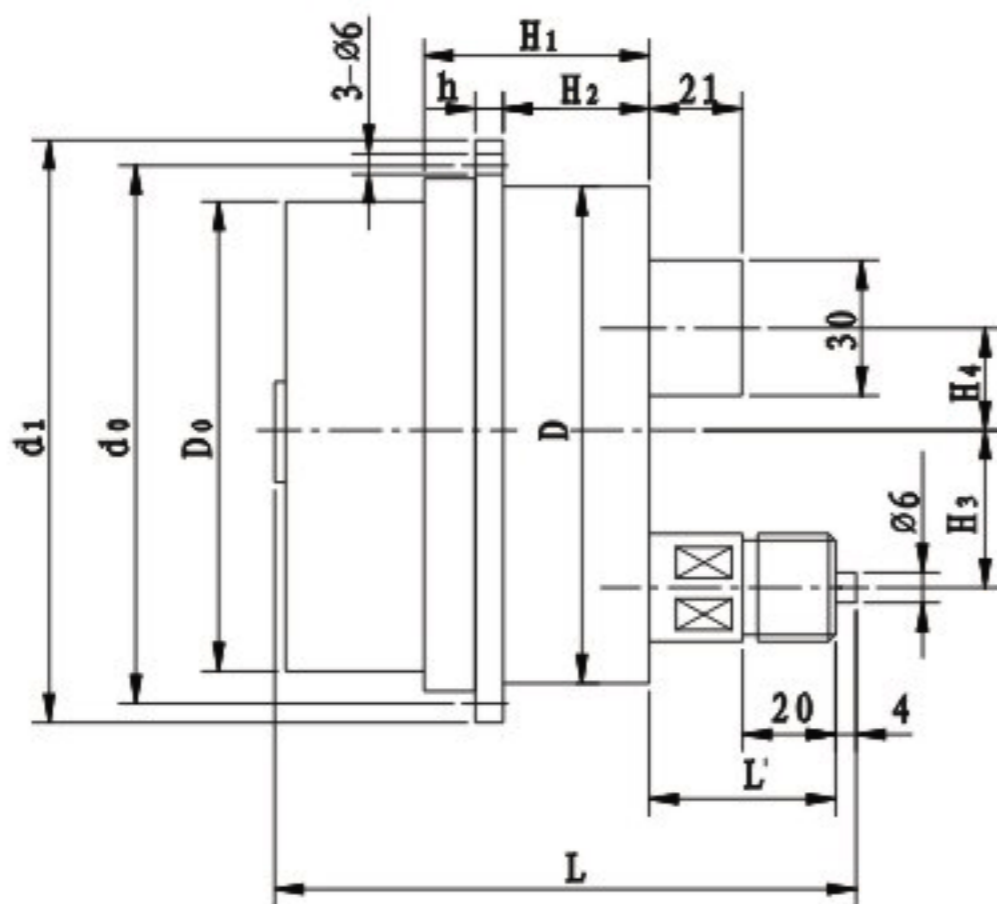
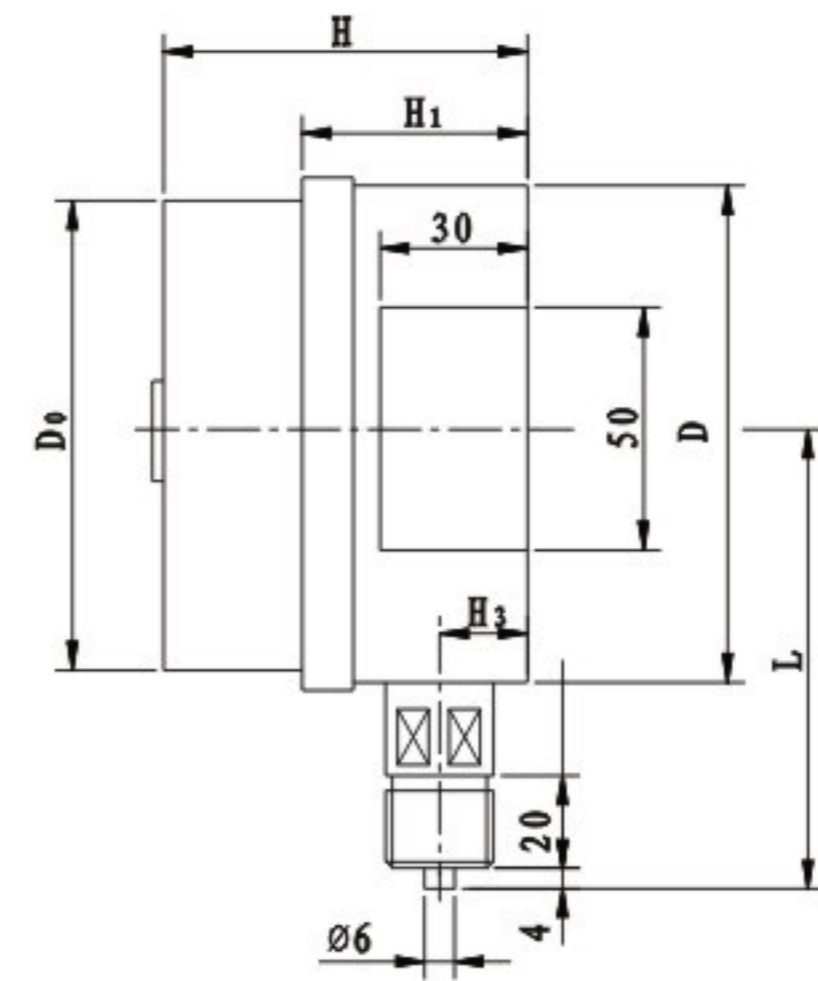
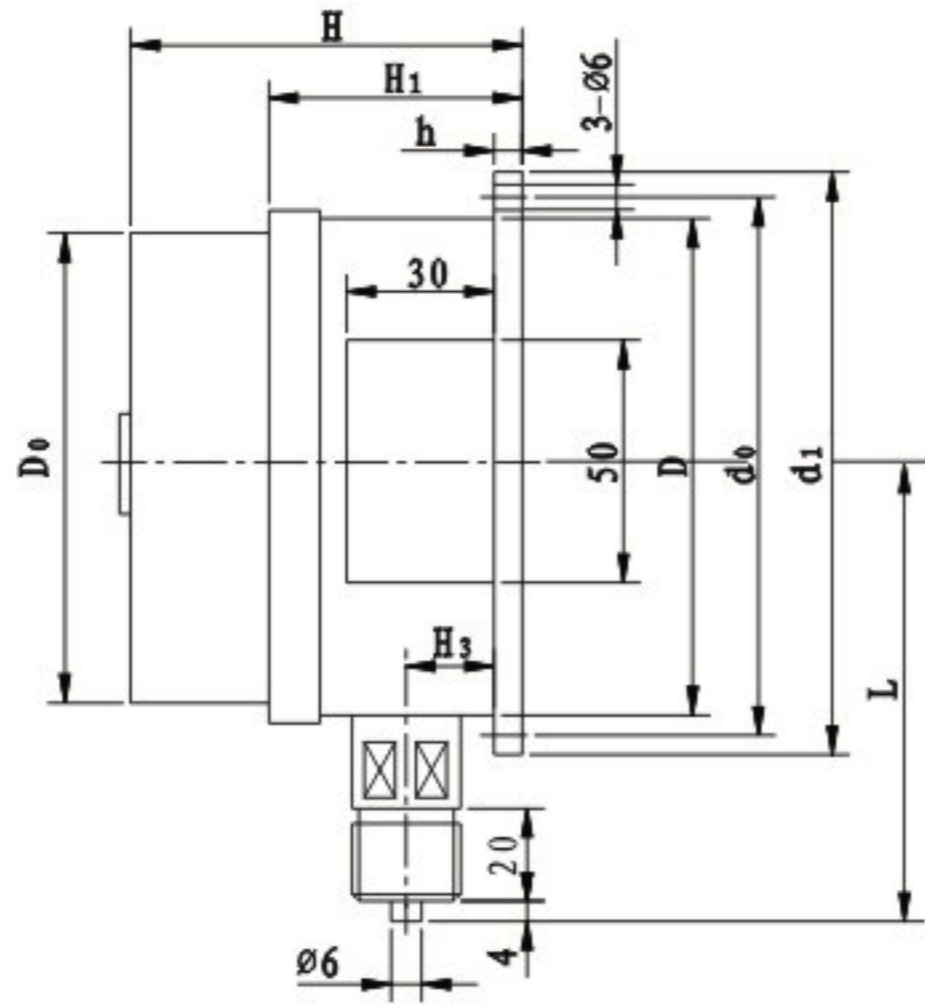
电接点压力表电气原理图

Circuit Diagram of Electric Contact Point Pressure Gauge



外形尺寸 Size

型号 Type	D	D ₀	H	H ₁	H ₂	h	H ₃	H ₄	L	L'	d ₁	d ₀
YXC-100	Φ 100	Φ 90	78	44			17		90			
YXC-100ZTQ	Φ 100	Φ 90		44	38	2	29	18	121	42	Φ 132	Φ 118
YXC-150	Φ 150	Φ 140	83	49			18		115			
YXN-100	Φ 100	Φ 90	80	47			17		94			
YXN-100T	Φ 100	Φ 90	80	47			17		94		Φ 130	Φ 118
YXN-100ZTQ	Φ 100	Φ 90		47	28.5	3	32	28	124	44	Φ 130	Φ 118
YXN-100Z	Φ 100	Φ 90		47			32	28	124	44		
YXN-150	Φ 150	Φ 140	85	54			22		115			
YXN-150ZTQ	Φ 150	Φ 140		49	26.5	3	55	50	127	44	Φ 117	Φ 165



YTZ-150 电位器式远程压力表

YTZ-150 Long-distance Pressure Gauge with Potentiometer



概述

该系列压力表适用于一般压力表适用的工作环境场所，既可直观测出压力值，又可输出相应的电信号。将输出的电信号传至远端的二次仪表上，以实现集中检测和远程控制。

Description

The series of pressure gauges are suitable with the same working environment as general pressure gauges. They could be used to directly display pressure value and transmit relevant electrical signal simultaneously. The signal is transmitted to the second instrument long distance away in order to realize concentration test and remote control.

技术参数

电气参数

电阻满量程: 0~400Ω
 起始电阻值: < 20Ω
 满上限电阻值: < 360Ω
 接线端外加电压: < 6V

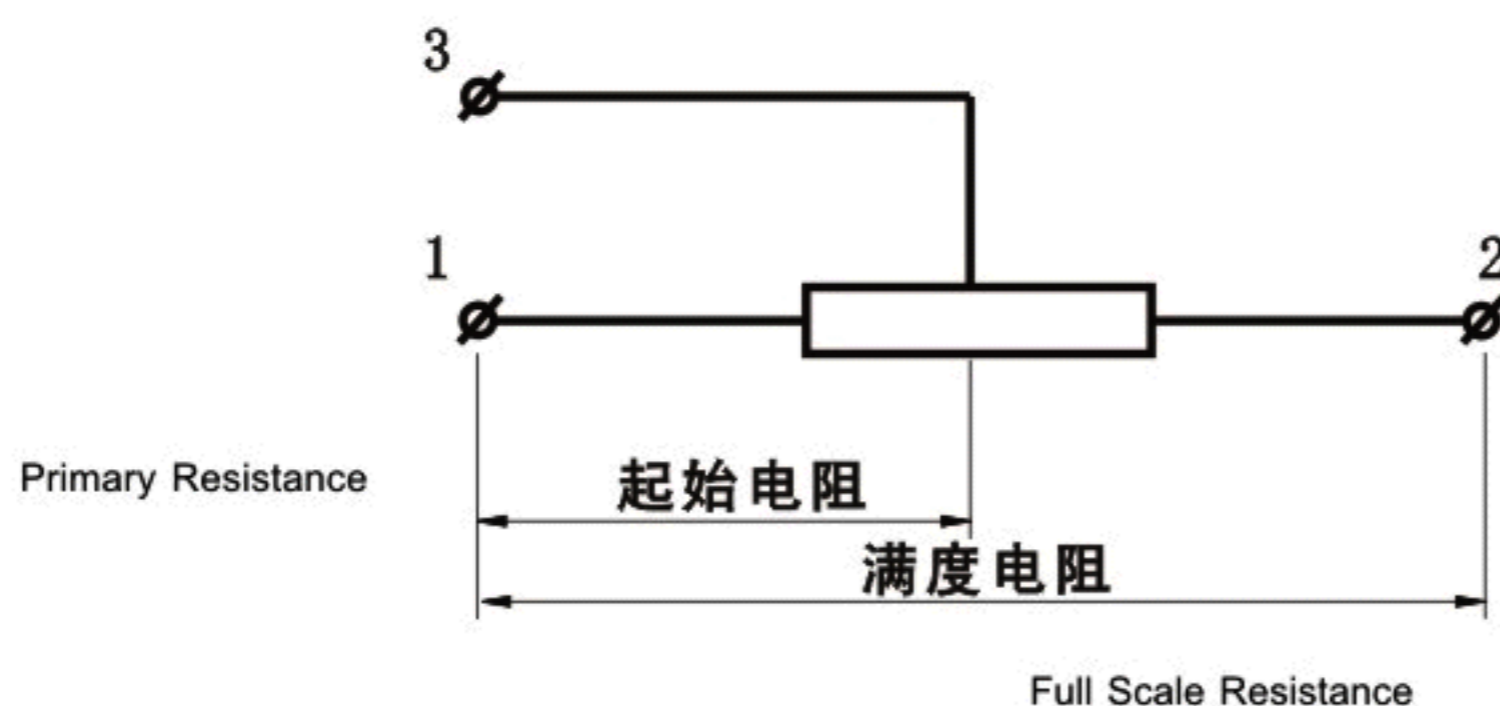
Technical Parameters

Electric Parameters

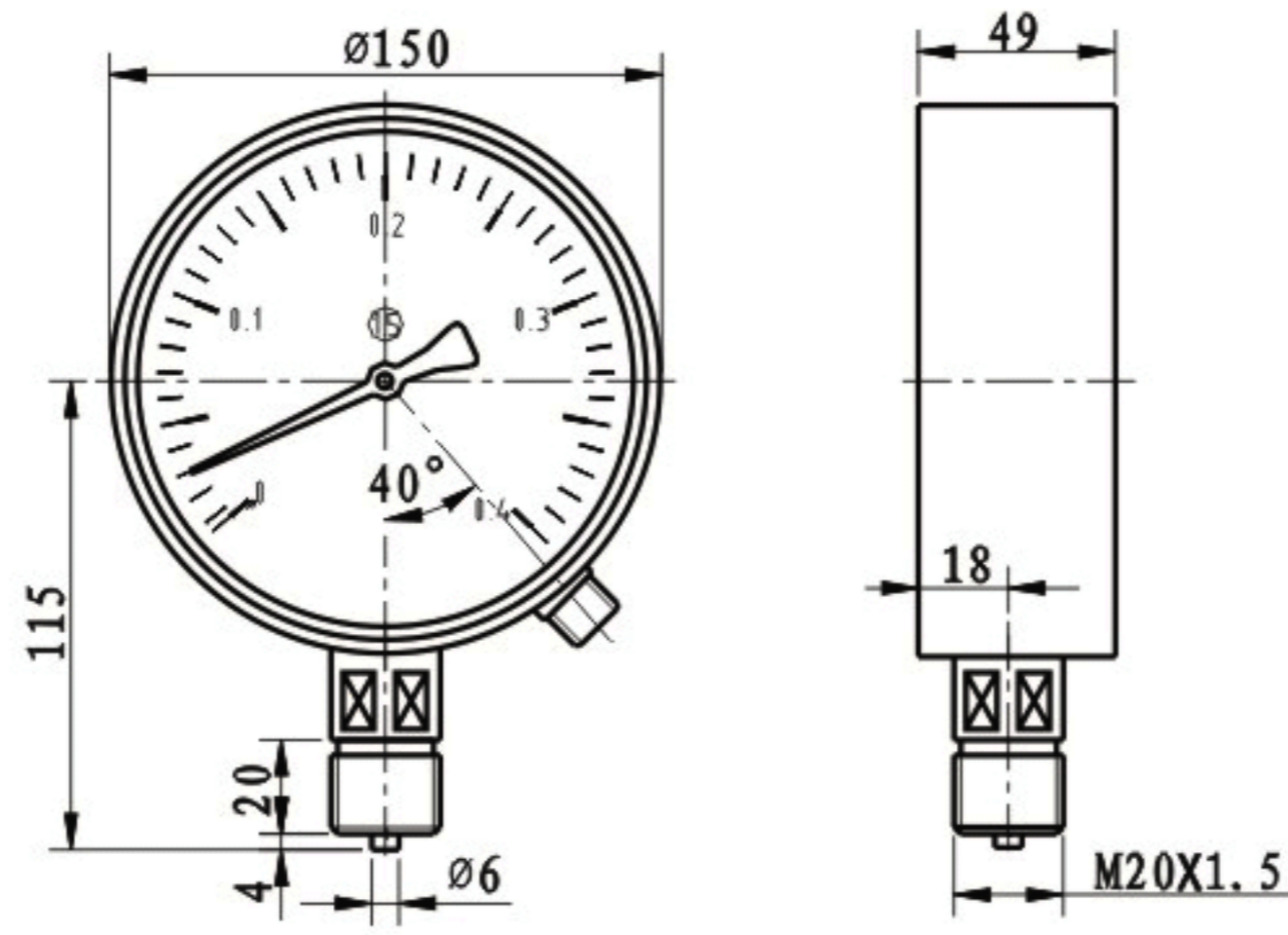
Resistance Range: 0~400Ω
 Primary Resistance: =20Ω
 Maximum Resistance: =360Ω
 Outer Voltage on connection point: < 6V

基本参数 Basic Parameters:

产品型号 Type/Nominal	公称直径 (mm) Diameter	接头螺纹 Connection Thread	测量范围(MPa) Measuring Range	使用环境条件 Environment Condition
YTZ-150	Φ 150	M20 X 1.5	与一般压力表相同 It remains the same as that of general type	温度 -40~70℃; 相对湿度 < 85% Temperature -40~70℃; Relative Humidity = 85%



外形尺寸 **Figure & Size**



配置二次仪表接线图

Connection Diagram with Second Instrument

远传压力表输出盒
Pressure Gauge Output Box

调整电位器组
Tuning Potentiometer Group

