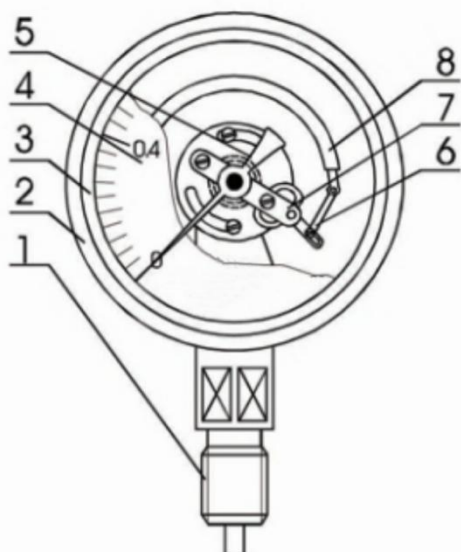


WY-X Pressure Gauge



WY-X Pressure Gauge are high quality dry pressure gauge designed to provide reliable service on various applications which are mostly in manufacturing or processing industrial, especially for pneumatic process, fabrication, compressed gas and common industrial application.. This series are widely used in gas or liquid tube and vessels, measuring the working pressure of medium such as liquid and gas without danger of explosion, without crystallizing, without freezing and without corrosive function to alloy. It is featured with small volume, ingenious structure, stable performance, safety and reliability and clear display.

The inside mechanical system is made up of junction and spring tube. Because the change of measured pressure effect the movement to free ends of spring tube, drives needle on turnable gear circling by the connection rod, then the dial will display the corresponding pressure value. In order to avoid the movement because of the clearance between the turnable gears, we fix a hairspring on the gears.



1. Connection header
2. Sheath
3. Lined band
4. Dial
5. Needle
6. Connection rod
7. Turnable Implement(core)
8. Spring tube

Technical Specification

Nominal Dial Size (mm): 40(1.5'), 50(2'), 63(2.5'), 75(3'), 100(4'), 150(6'), 200(8'), 250(10')

Accuracy Class (%): 40..75mm-Class 2.5 or 1.5; 100..250mm-Class 1.6 or 1

Ingress Protection: IP54

Connection Size: G1/8, G1/4, G1/2 or NPT or others

Filling: Dry or glycerin filled

Tube Element Shape: P≤100 bar in C tube; P>100 bar in helicoid

Operating Temperature: Ambient temperature -10°..+80°C; Medium temperature 110°C Max.

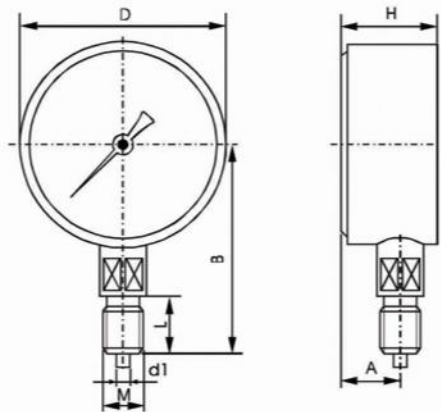
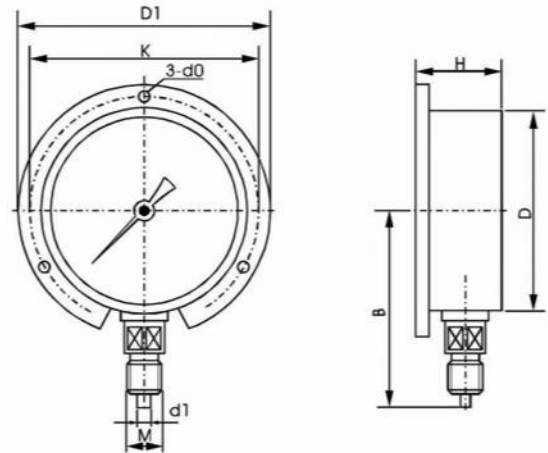
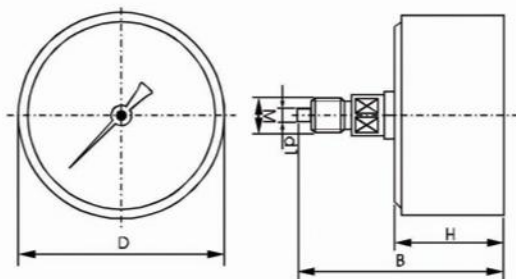
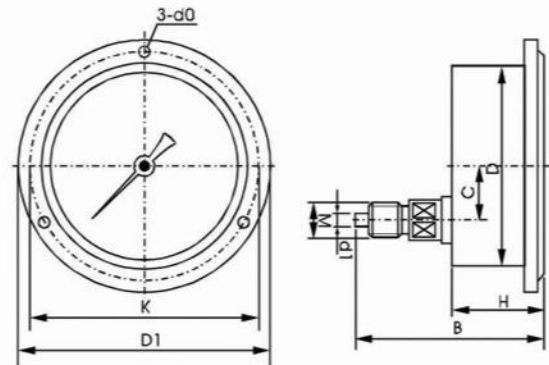
Temperature Error: Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) , is ±0.4% / 10°C (50°F) rising or falling

Over Pressure Limit: 130% of F.S.P ≤ 100 bar; 115% of F.S.P>100 bar

Dial Graduation: Black graduation on white for single range; Black and red graduation on white for dual ranges

Model Selection

W-Y	Pressure Gauge	
	Dial diameter	E.g. -100 (100mm), or -4". etc.
-	(Pressure range)	e.g. (0-10bar) or (0-1MPa) etc.
-	Type	None: bottom installation connection Z: back center installation connection ZD: back bottom installation connection T: edge flange installation connection
-	Material	-SS: SS case and SS wet parts -SB: SS case and brass wet parts -CB: steel case and brass wet parts -GB: chromed case and brass wet parts -O: specified For SS (stainless steel) , please specified 304SS or 316SS.
-	Filling	D: dry DF: dry but can be filled N: vibration-proof glycerin filled
-A	Installment type	1: thread 2: flange 3: clamp 4: customer specified
-	Size of installment	e.g. for A1, -1/2BSP or -M20*1.5 etc.; for A3, -2" or 3" etc.
-	Sub-model	As shown in the below pictures

Dimensions:
Radial direction installation

Radial surface mounted installation (With Back Side)

Axial direct installation

Axial surface concaved installation (With Front Side)

Outer Size

型 号 Type	D	D1	K	d0	A	B	C	H	L	M
Y-40	φ40			φ4	8	38		23	10	M10×1
Y-40Z	φ40			φ4		39		23	10	M10×1
Y-60	φ60			φ5	14	57		34	14	M14×1.5
Y-60Z	φ60			φ5		55		34	14	M14×1.5
Y-60ZT	φ60	φ85	φ72	φ5		60		37	14	M14×1.5
Y-100	φ100			φ6	20	88		45	20	M20×1.5
Y-100ZT	φ100	φ130	φ118	φ6		90	32	48	20	M20×1.5
Y-150	φ150			φ6	20	116		51	20	M20×1.5
Y-150ZT	φ150	φ180	φ165	φ6		96	53	50	20	M20×1.5
Y-250	φ250			φ6	25	170		60	20	M20×1.5

Design Material

Casing and Bezel Ring: Black steel; Chromed steel; Plastic; Stainless Steel

Sensing Element: Copper alloy or Stainless Steel

Connection: Brass or Stainless Steel

Window: Acrylic plastic; Instrument glass

Window gasket: Plastic

Pointer: Black painted aluminum; Dial Plate: Aluminum alloy

Applications

Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or copper alloy
Used for providing protection from vibration and pulsation.

Case: stainless steel

Ring: stainless steel

Window: safety glass (tempered glass, polycarbonate)

Socket & Connection: brass

Movement: brass

Bourdon tube: brass

Pointer and dial: aluminum, adjustable pointer

Liquid: glycerin, silicone

Rang: vacuum, compound 0 to 6000 psi

Accuracy: ±1.6% for 63mm, ±1.0% for 100mm and 150mm

Operating temperature

Ambient:-4°F to 140°F (-20°C TO +60°C)

Media: 140°F (+60°C)



117AL



117AB



117BL



117BB

Available model for the size			
Model	2.5" (63mm)	4" (100mm)	6" (150mm)
117AL	•	•	•
117AB	•	•	•
117AV	•	•	•
117AR	•	•	•
117BL	•	•	•
117BB	•	•	•
117BV	•	•	•
117BR	•	•	•


Applications

Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or brass
Special use for stable and long life.

Case: black steel

Ring: black steel

Window: acrylic(glass, acrylic glass, polycarbonate)

Socket & Connection: brass, (brass chromed)

Movement: brass

Bourdon tube: copper alloy

Pointer and dial: aluminum

Rang: vacuum, compound 0 to 6000 psi

Accuracy: $\pm 1.6\%$ for 63mm. $\pm 1.0\%$ for 100mm and 150mm

Operating temperature

Ambient: -40°F to 140°F (-40°C TO 60°C)

Media: -40°F to 140°F (-40°F TO $+60^{\circ}\text{C}$)



114AL

Applications

Used to measure micro pressure and negative pressure of gas that has no corrosion to copper alloy,

Case: black steel (black painting steel, chromed steel, ABS)

Ring: no (black steel, black painting steel ,chromed steel)

Window: acrylic (glass, acrylic glass, polycarbonate)

Socket & Connection: brass

Movement: semi-brass (complete brass)

Capsule: copper alloy.

Pointer and dial: aluminum

Rang: $\pm 25\text{mbar}$, minimum pressure.

Accuracy Class: $F \pm 3/2/3\%$ (ASME B40.100 Grade B)

KI 2.5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4"

Operating temperature

Ambient: -40°F to 140°F (-40°C TO 60°C)

Media: 140°F ($+60^{\circ}\text{C}$)



121AL

Applications

Used for pneumatic systems

Compressors, compressed air system

Suitable for fluid medium which does not clog connection port or corrode copper alloy.

Case: black steel (black painting steel, chromed steel, ABS)

Ring: no (black steel, black painting steel, chromed steel)

Window: acrylic (glass, acrylic glass, polycarbonate)

Socket & Connection: brass

Movement: semi-brass (complete brass)

Bourdon tube: copper alloy (brass)

Pointer and dial: aluminum

Rang: vacuum, compound 0 to 6000 psi accuracy

Class: $F \pm 3/2/3\%$ (ASME B40. 100 Grade B)

KI 2.5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4"

Operating temperature

Ambient: -40°F to 140°F (-40°C TO 60°C)

Media: 140°F (+60°C)



111AL



111AB



111AR



111AV



111AU



111BL



111BB



111CL



111CB



111DL



111CL-M

Applications

Used for hydraulic and pneumatic systems

Compressors, compressed air system

Suitable for fluid medium which does not clog connection port or brass

Used for providing protection from vibration and pulsation.

Case: stainless steel

Ring: stainless steel

Window: polycarbonate(glass).

Socket & Connection: brass

Movement: semi-brass(complete brass)

Bourdon tube: copper alloy(brass)

Pointer and dial: aluminum

Liquid: glycerin, silicone

Rang: vacuum, compound 0 to 6000 psi

Accuracy Class: $F \pm 3/2/3\%$ (ASME B40. 100 Grade B)

KI 2.5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4"

Operating temperature

Ambient: -4°F to 140°F (-20°C TO +60°C)

Media: 140°F (+60°C)



115AL

Applications

Used for hydraulic and pneumatic systems

Compressors, compressed air system

Suitable for fluid medium which does not clog connection port or corrode copper alloy

Case: stainless steel (stainless steel)

Ring: no (stainless steel)

Window: acrylic (glass, acrylic glass, polycarbonate)

Socket & Connection: brass, (brass chromed)

Movement: semi-brass (complete brass)

Bourdon tube: copper alloy (brass)

Pointer and dial: aluminum

Rang: vacuum, compound 0 to 6000 psi

Accuracy Class: $F \pm 3/2/3\%$ (ASME B40. 100 Grade B)

KI 2.5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4".

Operating temperature

Ambient: -40°F to 140°F (-40°C TO 60°C)

Media: 140°F (+60°C) Maximum



112AL



112AB



112BL



112BB



112AU



112DL



112DB



R1 High pressure radiator



R2 Capillary radiator



R3 High-Temperature tube



Overpressure protector



One Valve



One Valves With A Bleeding Screw



Two Valves



Syphon