

Built to resist the most severe conditions, and designed to facilitate a high level of operator safety, Phenolic Case Gauges are used. Phenolic is a resin based on phenol and aldehydes which can be used in corrosive and hazardous environments. They are usually made with stainless steel wetted parts, which provide corrosion resistance. Phenolic Gauges offer a high level of operator safety. The safety design is between the pressure sensing element and the window, with a solid wall between them. Normally, the back blow protects the user from liquids and particles in the event of a malfunction.

Magwell Phenolic pressure gauge features a micro adjustable pointer and a vibration and shock resistant mechanism, as a standard.

### Features

- ◆ Corrosion resistant pressure gauge with high level of operator safety
- ◆ Durable and corrosion resistant case
- ◆ Turret Design
- ◆ ASME B40.100 standards followed
- ◆ Solid Front Case with Blowout Back
- ◆ Accuracy as per Grade 2A /  $\pm 0.5\%$
- ◆ Glycerine can be filled in the field
- ◆ Micro adjustable pointer

### Applications

- ◆ Liquid & Gaseous Medium
- ◆ Corrosive Environments
- ◆ Oil & Gas Applications
- ◆ Chemical & Petrochemical Plants
- ◆ Food & Beverage Industries
- ◆ Nuclear Power Plants

### Specification

Dial :	4 1/2"
Design :	ASME B40.100
Safety Category :	S3 safety pattern gauge with Solid Front
Accuracy Class :	0.5% (Grade 2A)
Ranges :	-1 to 9 bar & psi through to 0 to 1,600 bar & psi
Case :	Phenolic
Case Design :	Solid front case with blowout back and built in back flange
Process Connection :	1/4", 3/8" & 1/2" BSP/NPT/BSPT (others available on request)
Connection Orientation :	Bottom / Back
Connection Material :	SS 316L or Monel
Measuring Principle :	Bourdon Tube - SS 316L or Monel
Movement :	Stainless Steel 304
Window :	Laminated Safety Glass
Pointer :	Black Aluminum and micro adjustable pointer
Filling :	Dry, Glycerine, Silicone or Halocarbon
Working Pressure :	Steady: 75% full scale range Fluctuating: 60% full scale range Short time: full scale range
Operating Temperature :	Ambient: -40 to +60°C Medium: -40 to +100°C
Storage Temperature :	-40 to +60°C
Temperature Effect :	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is $\pm 0.4$ per 10°C of the span rising and falling
Ingress Protection :	IP 65



## Ordering Information

Description	Code
<b>Dial Size</b>	<b>1</b>
115 mm (4 1/2")	115
<b>Model</b>	<b>2</b>
Phenolic Case Pressure Gauge	M129
<b>Mounting</b>	<b>3</b>
Bottom Connection	BT
Lower Back	LB
<b>Process Connection Size</b>	<b>4</b>
1/2" NPT (M)	4MN
1/4" NPT (M)	2MN
1/2" BSP (M)	2MB
1/4" BSP (M)	4MB
<b>Wetted Parts</b>	<b>5</b>
SS 316L	SL
Monel 400	MO
<b>Case Filling</b>	<b>6</b>
Dry	D
Glycerin Filled	G
Silicone	S
Halocarbon	H
<b>Range</b>	<b>7</b>
Refer to the Chart 1	
<b>Units</b>	<b>8</b>
Refer to the Chart 1	
<b>Options</b>	<b>9</b>
SS 316 Movement	SM
Safety Glass Window	SG
Pulsation Dampener	PD
Over Range Protector 1.5X FS	OP
Material Test Certificate	MT

Description	Code
<b>Options</b>	<b>9</b>
5 Points Calibration Certificate	CC
SS Tag Plate	TP
Dampened Movement	DM
Internal Overload Stop	OS
Zero Point Stopper	ZS
Receiver Gauge	RG
Over Pressure Protector	OP
Dial Marking Dual Scale	DS

Chart 1

Pressure Gauge Ranges					Compound / Vacuum Gauge Ranges			
bar	kPa	psi	Kg/cm <sup>2</sup>	Mpa	bar	kPa	Mpa	psi
0 ~ 0.6	0 ~ 60	0 ~ 10	0 ~ 0.6	0 ~ 0.06	-0.6 ~ 0	-60 ~ 0	-0.06 ~ 0	-30 inHg ~ 0
0 ~ 1	0 ~ 100	0 ~ 15	0 ~ 1	0 ~ 0.1	-1 ~ 0	-100 ~ 0	-0.1 ~ 0	-30 inHg ~ +15
0 ~ 1.6	0 ~ 160	0 ~ 30	0 ~ 1.6	0 ~ 0.16	-1 ~ +0.6	-100 ~ +60	-0.1 ~ +0.06	-30 inHg ~ +30
0 ~ 2.5	0 ~ 250	0 ~ 60	0 ~ 2.5	0 ~ 0.25	-1 ~ +1.5	-100 ~ +150	-0.1 ~ +0.15	-30 inHg ~ +60
0 ~ 4	0 ~ 400	0 ~ 100	0 ~ 4	0 ~ 0.4	-1 ~ +3	-100 ~ +300	-0.1 ~ +0.3	-30 inHg ~ +100
0 ~ 6	0 ~ 600	0 ~ 160	0 ~ 6	0 ~ 0.6	-1 ~ +5	-100 ~ +500	-0.1 ~ +0.5	-30 inHg ~ +160
0 ~ 10	0 ~ 1,000	0 ~ 200	0 ~ 10	0 ~ 1.0	-1 ~ +9	-100 ~ +900	-0.1 ~ +0.9	-30 inHg ~ +200
0 ~ 25	0 ~ 2,500	0 ~ 300	0 ~ 25	0 ~ 2.5				
0 ~ 40	0 ~ 4,000	0 ~ 400	0 ~ 40	0 ~ 4				
0 ~ 60	0 ~ 6,000	0 ~ 600	0 ~ 60	0 ~ 6				
0 ~ 100	0 ~ 10,000	0 ~ 800	0 ~ 100	0 ~ 10				
0 ~ 160	0 ~ 16,000	0 ~ 1,000	0 ~ 160	0 ~ 16				
0 ~ 250	0 ~ 25,000	0 ~ 1,500	0 ~ 250	0 ~ 25				
0 ~ 400	0 ~ 40,000	0 ~ 2,000	0 ~ 400	0 ~ 40				
0 ~ 600	0 ~ 60,000	0 ~ 3,000	0 ~ 600	0 ~ 60				
0 ~ 1,000	0 ~ 100,000	0 ~ 4,000	0 ~ 1,000	0 ~ 100				
0 ~ 1,600	0 ~ 160,000	0 ~ 5,000	0 ~ 1,600	0 ~ 160				
		0 ~ 6,000						
		0 ~ 7,500						
		0 ~ 10,000						
		0 ~ 15,000						
		0 ~ 20,000						

Sample Model Selection Code

1	2	3	4	5	6	7	8			
115	M129	BT	4MN	SL	0/4	bar	SG	PD	CC	TP

Dial Size : 115 mm  
 Model : M129 - Phenolic Case Gauge  
 Mounting : BT = Direct Bottom  
 Process Connection : 4MN = 1/2" NPT M  
 Wetted Parts : SS = 316 Stainless Steel  
 Range : Range : 0 ~ 4  
 Units : bar  
 Optional Extras :  
 SG Shatter Proof Safety Glass  
 PD Pulsation Dampener  
 CC 5 Point Calibration Certificate  
 TP AISI 316L Tag Plate



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