# **Ultra High Purity Pressure Gauges GP Series**

### Introduction

GP series pressure gauges are designed for ultra high purity gas distribution systems used in semiconductor, electronic and medical industries, etc. They are applicable for gases, liquids and corrosive media in high purity conditions, and also in corrosive environments.



#### **Features**

- © 2 in. (50 mm), 2 1/2 in. (63 mm) dial sizes
- O Up to 6000 psi measurement range
- © Connection electropolished to a roughness Ra≤10 μin. (0.25 μm)
- Leak rate (helium):  $\leq 1 \times 10^{-9}$  std cm<sup>3</sup>/s
- O Lower or center-back mount optional
- For ultra high purity application

## **Technical Data**

Accuracy		ASME B40.1 Grade A		
Dial Pangos	Compound Gauges	Vacuum to 15 psig ~ Vacuum to 300 psig		
Dial Ranges	Positive Pressure Gauges	0 to 15 psig ~ 0 to 6000 psig		
	Static Pressure	75% of the dial range		
Working Pressures	Dynamic Pressure	67% of the dial range		
	Instantaneous Pressure	100% of the dial range		
Operating	Ambient Temperature	-40 ~ 140 °F (-40 ~ 60°C)		
Temperature	Media Temperature	Up to 212 °F (100 °C)		
Protection Class	5	IP 54		

## **Materials of Construction**

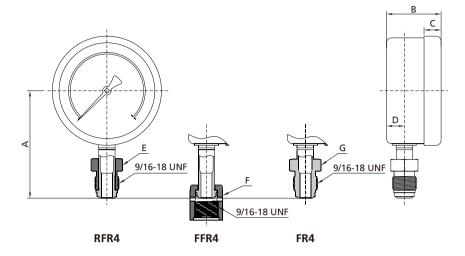
Component	Material		
End Connection	316L SS		
Bourdon Tube	316L SS		
Case	Stainless Steel		
Lens	Safety Glass		
Dial	Aluminum		
Pointer	Aluminum		



# **Connection Types and Mount Dimensions**

### **Lower Mount**

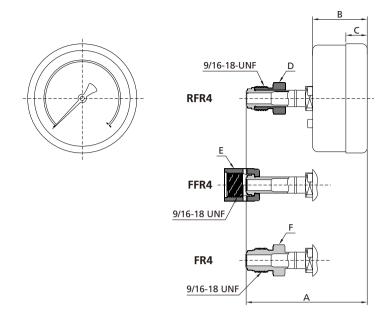
Dimensions, in inches (millimeters), are for reference only and are subject to change.



Dial Size Dimensions, in. (mm)							
in. (mm)	Α	В	С	D	E	F	G
2 (50)	2.32 (58.9)	1.04 (26.5)	0.41 (10.5)	0.41 (10.5)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)
2 1/2 (63)	2.56 (65.0)	1.26 (32.0)	0.47 (12.0)	0.43 (11.0)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)

#### **Center-Back Mount**

Dimensions, in inches (millimeters), are for reference only and are subject to change.



Dial Size	Dimensions, in. (mm)						
in. (mm)	Α	В	С	D	E	F	
2 (50)	2.60 (66.0)	1.04 (26.5)	0.41 (10.5)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)	
2 1/2 (63)	2.80 (71.0)	1.30 (33.0)	0.49 (12.5)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)	

## **Ordering Number Description**



Notes: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.



# **Dial Range Designators**

Minimum Scale		Maximum Scale		Designator			
		Unit		Dual Scale			
	Psi (Primary)	MPa (Secondary)	Bar (Secondary)	Psi (Primary), MPa (Secondary)	Psi (Primary), Bar (Secondary)		
	15	0.1	1	V15PM	V15PB		
Vacuum -30 in. Hg	30	0.2	2	V30PM	V30PB		
	60	0.4	4	V60PM	V60PB		
	100	0.7	7	V100PM	V100PB		
	160	1.0	10	V160PM	V160PB		
	200	1.3	13	V200PM	V200PB		
	300	2.0	20	V300PM	V300PB		
	15	0.1	1	15PM	15PB		
	30	0.2	2	30PM	30PB		
	60	0.4	4	60PM	60PB		
	100	0.7	7	100PM	100PB		
	160	1.0	10	160PM	160PB		
	200	1.3	13	200PM	200PB		
	300	2.0	20	300PM	300PB		
	400	2.5	25	400PM	400PB		
0	600	4.0	40	600PM	600PB		
	800	5.0	50	800PM	800PB		
-	1000	7.0	70	1000PM	1000PB		
	1500	10.0	100	1500PM	1500PB		
	2000	13.0	130	2000PM	2000PB		
	3000	20.0	200	3000PM	3000PB		
	4000	25.0	250	4000PM	4000PB		
	5000	35.0	350	5000PM	5000PB		
	6000	40.0	400	6000PM	6000PB		

#### Notes:

- 1. The selected dial range should be approximately two times the system working pressure, and the system working pressure should be in the 25 to 75 % of the dial range.
- 2. Not all dial ranges and connections are available for all part numbers.
- 3. The maximum scale value of the dual scale gauge is based on the primary unit, the maximum value of the secondary unit is for reference only. For example, when the maximum range is 200 Psi and the maximum value of the primary unit (Psi) of the dial is 200, the maximum value of the secondary unit (MPa) may be 1.3 or 1.4.

