# **Ultra High Purity Pressure Gauges**

## **GP Series**

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
- © Leak rate (helium): ≤1x10<sup>-9</sup> 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 Ranges  Compound Gauges  Positive Pressure Gauges  Static Pressure  Working  Dynamic Pressure	Compound Gauges	Vacuum to 15 psig ~ Vacuum to 300 psi		
	0 to 15 psig ~ 0 to 6000 psig			
Working Pressures	Static Pressure	75% of the dial range		
	Dynamic Pressure	67% of the dial range		
	Instantaneous Pressure	100% of the dial range		
Operating Temperature	Ambient Temperature	-40 ~ 140 °F (-40 ~ 60°C)		
	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

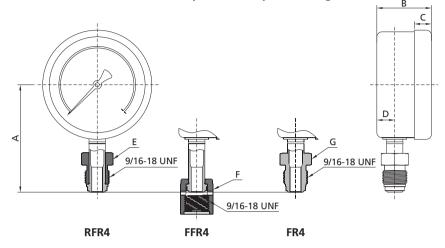


## **Connection Types and Mount Dimensions**

#### **Lower Mount**

#### **Dimensions**

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

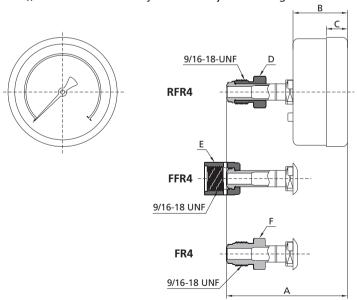


Dial Size	Dimensions, in. (mm)						
in. (mm)	Α	В	С	D	E	F	G
2 (50)	2.32 (58.9)	1.04 (26.5)	0.41 (10.5)	0.41 (10.5)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)
2 1/2 (63)	2.56 (65.0)	1.26 (32.0)	0.47 (12.0)	0.43 (11.0)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)

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

#### **Dimensions**

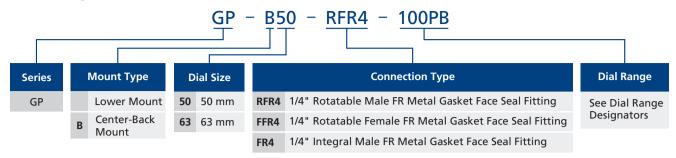
Dimensions, in inches (millimeters), are for reference only and are subject to change.



Dial Size			Dimension	s, 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**



Note: "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 Dual Scale		
		Unit				
	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	
3	160	1.0	0.4 4 V60PM 0.7 7 V100PM	V160PB		
	100 0.7 160 1.0 200 1.3 300 2.0 15 0.1 30 0.2 60 0.4 100 0.7 160 1.0 200 1.3	13	V200PM	V200PB		
	300	0.4     4     V60PM       0.7     7     V100PM       1.0     10     V160PM       1.3     13     V200PM       2.0     20     V300PM       0.1     1     15PM       0.2     2     30PM       0.4     4     60PM       0.7     7     100PM       1.0     10     160PM       1.3     13     200PM	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.

