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

- $\odot\;$ 2 in. (50 mm), 2 1/2 in. (63 mm) dial sizes
- O Up to 6000 psi measurement range
- $\odot~$ Leak rate (helium): ${\leqslant}1{\times}10^{\cdot9}\,\text{std cm}^3\text{/s}$
- $\ensuremath{\mathbb O}\xspace$ Lower or center-back mount optional
- O For ultra high purity application

Technical Data

Accuracy		ASME B40.1 Grade A		
Dial Ranges	Compound Gauges	Vacuum to 15 psig ~ Vacuum to 300 psig		
	Positive Pressure Gauges	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		IP 54		

Materials of Construction

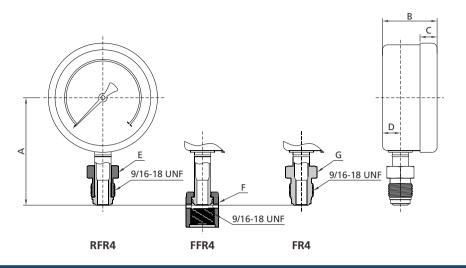
Component	Material		
End Connection	316L SS		
Bourdon Tube	316L SS		
Case	Stainless Steel		
Lens	polycarbonate		
Dial	Aluminum		
Pointer	Aluminum		



Connection Types and Mount Dimensions

Lower Mount

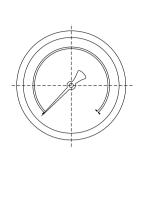
Dimensions, in inches (millimeters), are for reference only and are subject to change.

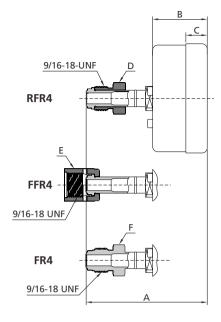


Dial Size	Dimensions, in. (mm)										
in. (mm)	А	В	С	D	E	F	G				
2 (50)	2.32 (58.9)	1.04 (26.5)	0.41 (10.5)	0.41 (10.5)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)				
2 1/2 (63)	2.56 (65.0)	1.26 (32.0)	0.47 (12.0)	0.43 (11.0)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)				

Center-Back Mount

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





Dial Size	Dial Size Dimensions, in. (mm)								
in. (mm)	А	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

	<u>GP - B50 - RFR4 - 100PB</u>							
Series	Series Mount Type Dial Size			Connection Type	Dial Range			
GP		Lower Mount	50	50 mm	RFR4	1/4" Rotatable Male FR Metal Gasket Face Seal Fitting	See Dial Range	e
	В	Center-Back	63	63 mm	FFR4	1/4" Rotatable Female FR Metal Gasket Face Seal Fitting	Designators	
		Mount			FR4	1/4" Integral Male FR Metal Gasket Face Seal Fitting		

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 Dual Scale		
		Unit				
	Psi (Primary)	MPa (Secondary)	Bar (Secondary)	Psi (Primary), MPa (Secondary)	Psi (Primary), Bar (Secondary)	
	15	0.1	1	V15PM	V15PB	
	30	0.2	2	V30PM	V30PB	
	60	0.4	4	V60PM	V60PB	
Vacuum 30 in. Hg	100	0.7	7	V100PM	V100PB	
5	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.