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
- ◎ Internal surface electropolished to a roughness Ra \leq 10 µin. (0.25 µm)
- ◎ Leak rate (helium): $\leq 1 \times 10^{-9}$ std cm³/s
- O Lower or center-back mount optional
- ◎ For ultra high purity application

Technical Data

Accuracy		ASME B40.1 Grade A	
Dial David	Compound Gauges	Vacuum to 15 psig ~ Vacuum to 300 psig	
Dial Ranges	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	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		





Fittings

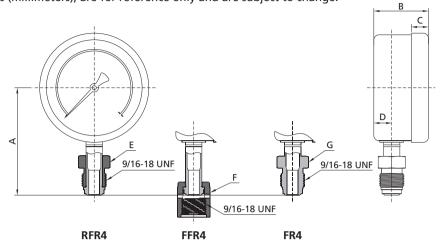
Valves

Connection Types and Mount Dimensions

Lower Mount

Dimensions

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

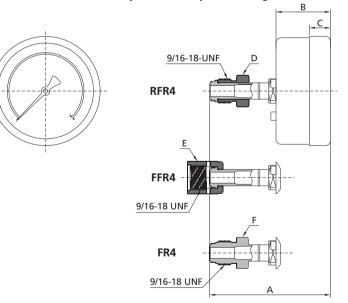


Dial Size	Dial Size Dimensions, in. (mm)						
in. (mm)	А	В	С	D	E	F	G
2 (50)	2.32 (58.9)	1.04 (26.5)	0.41 (10.5)	0.41 (10.5)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)
2 1/2 (63)	2.56 (65.0)	1.26 (32.0)	0.47 (12.0)	0.43 (11.0)	0.63 (16.0)	0.75 (19.0)	0.63 (16.0)

Center-Back Mount

Dimensions

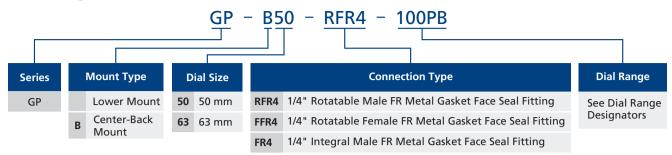
Dimensions, in inches (millimeters), are for reference only and are subject to change.



Dial Size 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)

FITOK

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		
		Unit		Dual Scale		
	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	
J	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.



Process Specification