Data Sheet



HPX High Purity Pressure Gauge

50 mm and 63 mm Dial Sizes

FEATURES

- 316L Stainless steel wetted parts
- Helium leak tested to 1 x 10⁻⁸ atm cc/s
- Cleaned in class 10,000/100 clean room
- Polyethylene-sealed after nitrogen gas flushing

TYPICAL USES

- High purity gas delivery systems
- Gas sticks
- Process gas analyzers
- Semiconductor

SPECIFICATIONS

Accuracy:	±1.6% of span (63 mm) ±1.6% of span (50 mm)					
Dial Sizes:	50 mm, 63 mm					
Ranges:	Vacuum to 15 psi, vacuum to 300 psi 0 to 60 psi, 0 to 3,000 psi					
Surface Finish:	Tube and f	Tube and fitting $< 1.6 \ \mu m$ Ra				
Process Connection:	50 mm: 9_{16}^{\prime} -18 UNF Male or Female Connection (Compatible with 1/4 VCR®) 63 mm: G 1/4 B Male, R 1/4 Male, 1/4 NPT Male, 9_{16}^{\prime} -18 UNF Male Connection (Compatible with 1/4 VCR®)					
Process Conn. Location:	50 mm: Lower, center back 63 mm: Lower, lower back					
Movement:	400 Stainless steel					
Window Material:	Glass (63 mm) Polycarbonate (50 mm)					
Dial:	White face, aluminum					
Pointer	Black, aluminum					
Approvals:	RoHs					
Weight:	50 mm: Aprox. 100 g 63 mm: Aprox. 200 g					
WETTED COMPONENTS						
Bourdon Tube	Gland/Socket		Joints			
316L SS	316L SS		Argon Arc Welded			
NON-WETTED COMPONENTS						
Case	Ring					
304 Stainless ste	eel 304 Stainless steel					



- Ultraclean design & packaging
- 100% Helium leak tested
- Serialized dial (7 digit)

MIN/MAX TEMPERATURE LIMITS				
Ambient	Process	Storage		
23 °F to 113 °F (-5 °C to 45 °C)	23 °F to 113 °F (-5 °C to 45 °C)	23 °F to 113 °F (-5 °C to 45 °C)		



50 mm and 63 mm Dial Sizes

ORDERING CODE	Example:	50	н	PXG	MVS	В	V/150#
Size							
50 - 50 mm		50					
63 - 63 mm							
Gauge Family							
H - High Purity Gauge			Н				
Purity Level							
PXG - Class 100 (63 mm) / Class 100	000 (50 mm)			PXG			
Process Connection							
MVF - Male %16 -18 UNF (Compatible	e with ¼ VCR®) (63 mm only	/)					
MGF - G 1/4 B Male (63 mm only)							
MRF - R 1/4 Male (63 mm only)							
MNF - 1/4 NPT Male (63 mm only)							
MVS - Male Swivel $\ensuremath{\$ _{16}}$ -18 UNF (Cor	npatible with ¼ VCR®) (50 n	nm only)			MVS		
FVS - Female Swivel %16 -18 UNF (C	ompatible with ¼ VCR®) (50	mm only)					
Process Connection Location							
L - Lower							
B - Back (50 mm: center back, 63 m	m: lower back)					В	
Range							
# - PSI							
V/# - Inches of Mercury Vacuum and	PSI						V/150#
BR - Bar							
KP - Kilopascals							
MP - Megapascals							



50 mm and 63 mm Dial Sizes

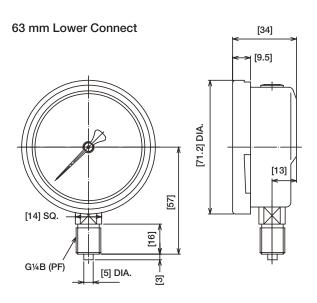
STANDARD RANGES				
psi	bar	kPa	MPa	
V/15#	N1/1BR	N100/100KP	NP1/P1MP	
V/30#	N1/2BR	N100/200KP	NP1/P2MP	
V/45#	N1/3BR	N100/300KP	NP1/P3MP	
V/60#	N1/4BR	N100/400KP	NP1/P4MP	
-	N1/6BR	N1/600KP	NP1/P6MP	
V/150#	N1/10BR	N1/1000KP	NP1/1MP	
V/200#	N1/15BR	N1/1500KP	NP1/1PMP	
V/300#	N1/20BR	N1/2000KP	NP1/2MP	
60#	4BR	400KP	P4MP	
-	6BR	600KP	P6MP	
100#	-	-	-	
150#	10BR	1000KP	1MP	
200#	-	-	-	
-	16BR	1600KP	1P6MP	
300#	-	-	-	
-	25BR	2500KP	2P5MP	
500#	-	-	-	
600#	40BR	-	4MP	
-	60BR	-	6MP	
1000#	70BR	-	7MP	
1500#	100BR	-	10MP	
2000#	-	-	15MP	
-	160BR	-	16MP	
3000#	-	-	20MP	
	250BR	-	25MP	

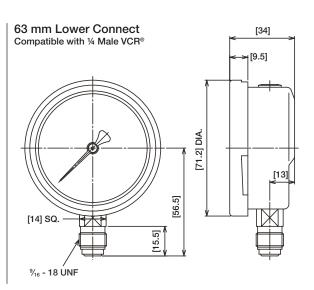


50 mm and 63 mm Dial Sizes

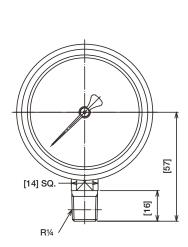
DIMENSIONS in millimeters

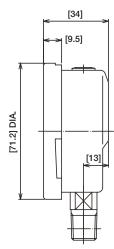
For reference only, consult Ashcroft for specific dimensional drawings

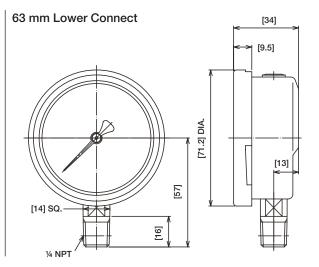




63 mm Lower Connect









%16 - 18 UNF

[16]

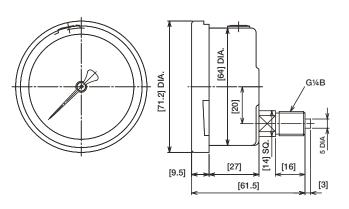
HPX High Purity Pressure Gauge

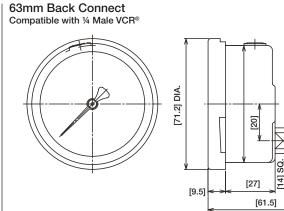
50 mm and 63 mm Dial Sizes

DIMENSIONS in millimeters

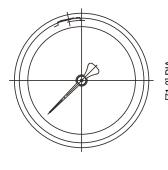
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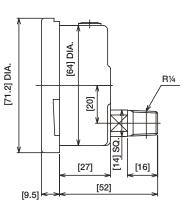
63mm Back Connect



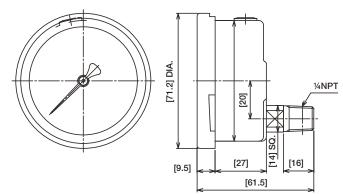


63mm Back Connect





63mm Back Connect

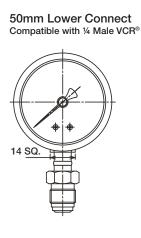


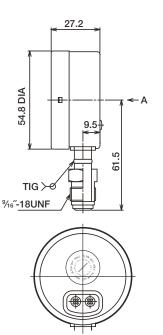


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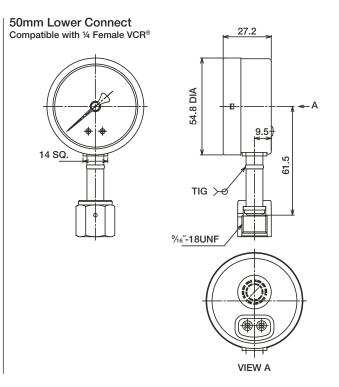
DIMENSIONS in millimeters

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VIEW A



50mm Back Connect Compatible with ¼ Male VCR®

