Data Sheet



HPS High Purity Pressure Gauge with Reed Switch

50 mm Dial Size

FEATURES

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

TYPICAL USES

- High purity gas delivery systems
- Gas sticks
- Process gas analyzers
- Semiconductor
- Cylinder Cabinet
- Exhaust gas for CVD and etching equipment



SPECIFICATIONS

±1.6% of span Accuracy: Setting Accuracy: ±5.0% of span

Dial Sizes: 50 mm

0 to 60 psi, 0 to 3,000 psi Ranges: Surface Finish: Tube and fitting < .38 μm Ra

Process Connection: 50 mm:

1/4 Male or female VCR type (9/16-18UNF)

R 1/4 Male, 1/4 NPT Male

Process Conn. Location: Lower

Window Material: Polycarbonate

Dial: White face, aluminum

Pointer Black, aluminum

Approvals: RoHS

KEY BENEFITS

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

WETTED COMPONENTS

Bourdon Tube	Gland/Socket	Joints
316L SS	316L SS	Argon Arc Fully Welded

NON-WETTED COMPONENTS

Case	Window
304 SS	Polycarbonate

MIN/MAX TEMPERATURE LIMITS

PROCESS

-4 °F to 140 °F (-20 °C to 60 °C)

REED SWITCH SPECIFICATIONS

Power: 10 W

Maximum Voltage: 30V AC/DC Maximum Current: 0.5A DC

Dead Band: Within 10% of span

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ORDERING CODE	Example:	50	HPS	G	MVS	L	60#
Size							
50 - 50 mm		50					
Gauge Family							
HPS - High purity gauge (with re	eed switch)		HPS				
Purity Level							
G - Class 10,000				G			
Process Connection							
MVS - 1/4 Male swivel VCR type	(% ₁₆ -18 UNF male)				MVS		
MRF - R ¼ Male							
MNF - 1/4 NPT Male							
FVS - 1/4 Female swivel VCR typ	e (%16-18 UNF female)						
Process Connection Location						-	
L - Lower						L	
Range (See range table on pa	ge 3 for all standard ranges)						
# - psi							60#
BR - Bar							
KP - Kilopascals							
MP - Megapascals				<u> </u>			





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	STANDARD RANGES					
psi	bar	MPa				
V/60#	N1/4BR	NP1/P4MP				
-	N1/6BR	NP1/P6MP				
V/150#	N1/10BR	NP1/1MP				
V/200#	-	-				
-	N1/15BR	-				
-	-	NP1/1P6MP				
V/300#	N1/20BR	-				
-	-	NP1/2P5MP				
60#	4BR	P4MP				
-	6BR	P6MP				
100#	-	-				
150#	10BR	1MP				
200#	-	-				
-	16BR	1P6MP				
300#	-	-				
-	25BR	2P5MP				
500#	-	-				
600#	40BR	4MP				
-	60BR	6MP				
1000#	-	-				
1500#	100BR	10MP				
2000#	-	-				
-	160BR	16MP				
3000#	-	-				
-	250BR	25MP				



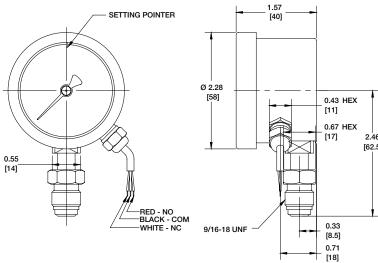
HPS High Purity Pressure Gauge with Reed Switch

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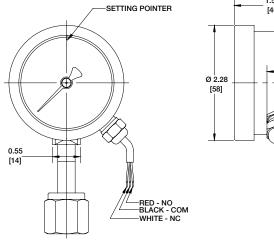
DIMENSIONS in [} are millimeters

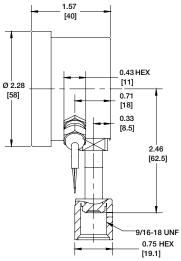
For reference only, consult Ashcroft for specific dimensional drawings

VCR Male Process Connection



VCR Female Process Connection





Wiring Diagram

