

## Proserv CAC McDaniel Controls Pressure Gauges

Proserv CAC McDaniel Controls designs and manufactures its gauges to minimize failure and to protect personnel and property. The use of laminated safety glass, rather than plexiglass or single strength glass, prevents dangerous pressure build-up in the case. The brittle glass cracks uniformly and the laminate remains intact. Additionally, the laminated safety glass won't craze or discolor.

Every 4" McDaniel gauge is designed to withstand 300% full scale pressure without rupture of the bourdon tube. 130% full scale pressure without loss of accuracy. 15,000 cycles of pressure pulsation from 10% to 90% full scale at a rate of 60 times a minute. The gauge is allowed to rest for 5 minutes and then can have no greater error than 1% at and place on the dial.

McDaniel offers liquid-filled gauges for applications involving vibration or pulsation. Glycerin is an excellent damper of bourdon tube movement. Emersion of the entire measuring assembly in a protective liquid envelope provides lubrication and shuts out corrosive or dirty atmospheres — thereby minimizing wear of moving parts and prolonging gauge life significantly.

When you order a McDaniel fillable gauge you may choose to fill it yourself or you may order it factory-filled with the liquid of your choice. Thus, you can maximize inventory utility and minimize inventory cost.

Glycerin filling has a lower operating temperature limit of 32°F (0°C) undiluted. The mixture of distilled water in proportions up to 35% will lower the limit commensurately, to -40°F (-40°C).

Silicone can extend the lower temperature limit to -60°F (-50°C). The maximum temperature limit is not determined by the fluid but by the gauge's synthetic case seal. At elevated temperatures the seal may bake and lose its elasticity.

Warning: Glycerin filled gauges should not be used in applications involving strong oxidizing agents such as chlorine, nitric acid or hydrogen peroxide. (Refer to ASME B40.1)

### Features & Benefits

- All Stainless Construction
- Laminated Safety Glass Lens
- Full Blow-out Protection
- Fillable Case
- Accuracy: A% on 4" and 6" gauges-ASME B40.1 Grade  
1% on 2" and 1/2" gauges-ASME B40.1 Grade 1A  
1.5" on 1/4" Gauges - ASME B40.1 Grade A Adjustable  
pointer standard on 4" and 6" only



Standard bottom Connection



Solid Front/ Blow-out Back



Rear Flange



U-Clamp Panel Mount



Back Connection



Front Flange Panel Mount

Choice of Mounting Style

### Technical Specifications

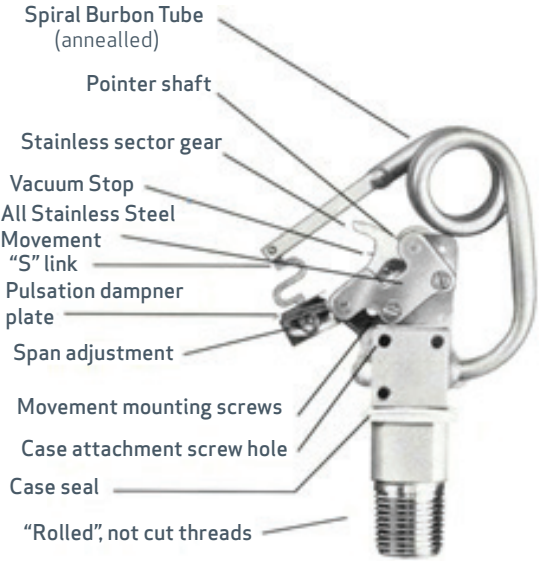
Product No.	Case Styles	Pressure Rating	
MCD-GA030-000	2 1/2" (63MM)	0-100 PSI/BAR	Filled or Fillable - 1/4" NPT*
MCD-GA052-000		0-200 PSI/BAR	
103582		0-200 PSI/BAR	
MCD-GA013-000		0-6,000 PSI/BAR	
MCD-GA068-000	4" (100MM)	0-300 PSI/BAR	
MCD-GA054-000	4" (100MM)	0-100 PSI/BAR	Filled or Fillable - 1/4" NPT or 1/2" NPT
MCD-GA124-000		0-6000 PSI/BAR	

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## Spiral Burbon Tube

Bourdon tube work hardening can cause premature rupture in a pulsation type service, especially if that service is above 1,000 psi, where heavy-wall thickness of the Bourdon tube is encountered. McDaniel, therefore, incorporates an annealed spiral bourdon tube as the sensing element of all gauge ranges above 1,000 psi to minimize bourdon tube failure possibilities.



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