

## JOGLER MLG COMPONENT IMPROVEMENTS

### JOGLER – TUBE SEALING

#### TEFLON SUPERSEAL PLUGS

- Jogler standard indicators utilize our (previously patented) SuperSeal technology to seal bargraph indicator tubes. This design for sealing Teflon to glass has been used in our traditional sight glass products for many years with high levels of success.
- SuperSeal plugs provide a guaranteed hermetic seal with at least 3 layers of redundancy. This mechanical seal design eliminates residual stress found in blown glass closure methods greatly enhancing durability in shipment, installation, and high vibration applications.
- Vacuum purged and Nitrogen filled tubes protect from moisture intrusion that can lead to tube fogging or frosting.
- Standard and wide indicator tubes are the only indicators rated up to IP68 ingress protection levels.



JOGLER SUPERSEAL PLUG IN A STANDARD MBG TUBE  
Little to no additional stress

### COMPETITORS

#### GLASS TUBE SEALING

- Some competitors use traditional glass blowing techniques to close their tube and achieve a hermetic seal. This requires deformation of the glass tube under heat which results in residual stress that cannot be alleviated through an annealing process as such an operation would destroy the bar graph internals.
- The residual stress results in a fragile product that struggles to survive shipping, installation, and high vibration duty.

COMPETITOR MBG  
TUBE SEALED AND  
DEFORMED WITH  
GLASS TORCH  
A lot of additional stress



#### GASKET SEALING, GLASS AND TUBE CONSTRUCTIONS

- Indicators with flat glass viewing windows rely on gasket cord with end gaskets for a “hermetic” seal. These gaskets inevitably fail due to errors in manufacturing and assembly, variance in material tolerances, and incompatibility of material thermal expansion properties. Failed seals result in moisture intrusion that leads to fogging and greatly reduced visibility. In extreme conditions, seal failure can result in mechanical failure and loss if the ability to monitor liquid level.

