

## Ashcroft® Gauges, General Information

### **MATERIALS FOR CORROSIVE SERVICE (HYDROGEN)**

The following pressure gauge systems are recommended for use on hydrogen service:

316 stainless steel Bourdon tube and socket.

Phosphor bronze Bourdon tube brazed to a brass socket (available only to 1000 psi).

Mixed alloy systems should not be used. These include stainless steel Bourdon tubes with carbon steel sockets (“R” or “RT” systems) and the Type 1009 “AW” (bronze welded to stainless steel Bourdon tube).

Diaphragm seals for hydrogen service should have 316 stainless steel diaphragms and lower housings.

PIP #: ASH/PI-38

Applicable to: