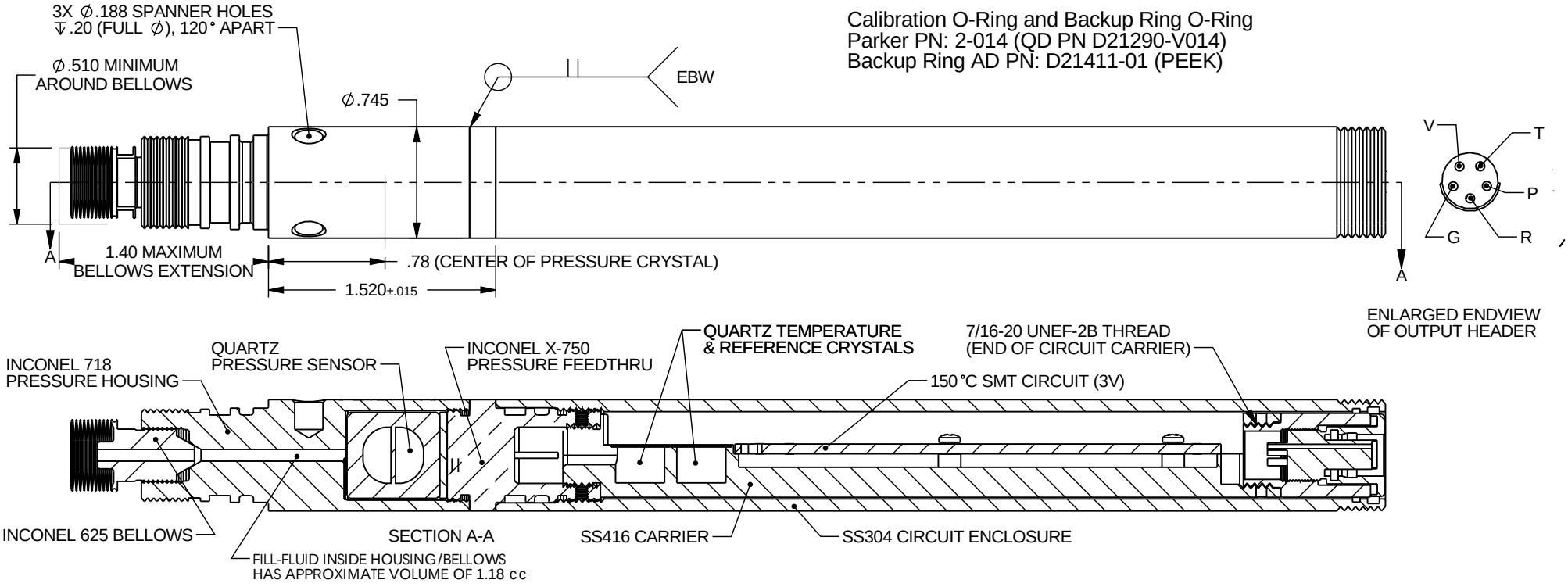



Calibration O-Ring and Backup Ring O-Ring
Parker PN: 2-014 (QD PN D21290-V014)
Backup Ring AD PN: D21411-01 (PEEK)

Upon removal of the connector, approximately 3-4" of internal wire length is available:
26 AWG, 250V TFE INSULATION
V (Blue) = Vcc (5-12 VDC)
G (Black) = Ground
P (Purple) = Pressure Signal
T (Yellow) = Temperature Signal
R (White) = Reference Signal

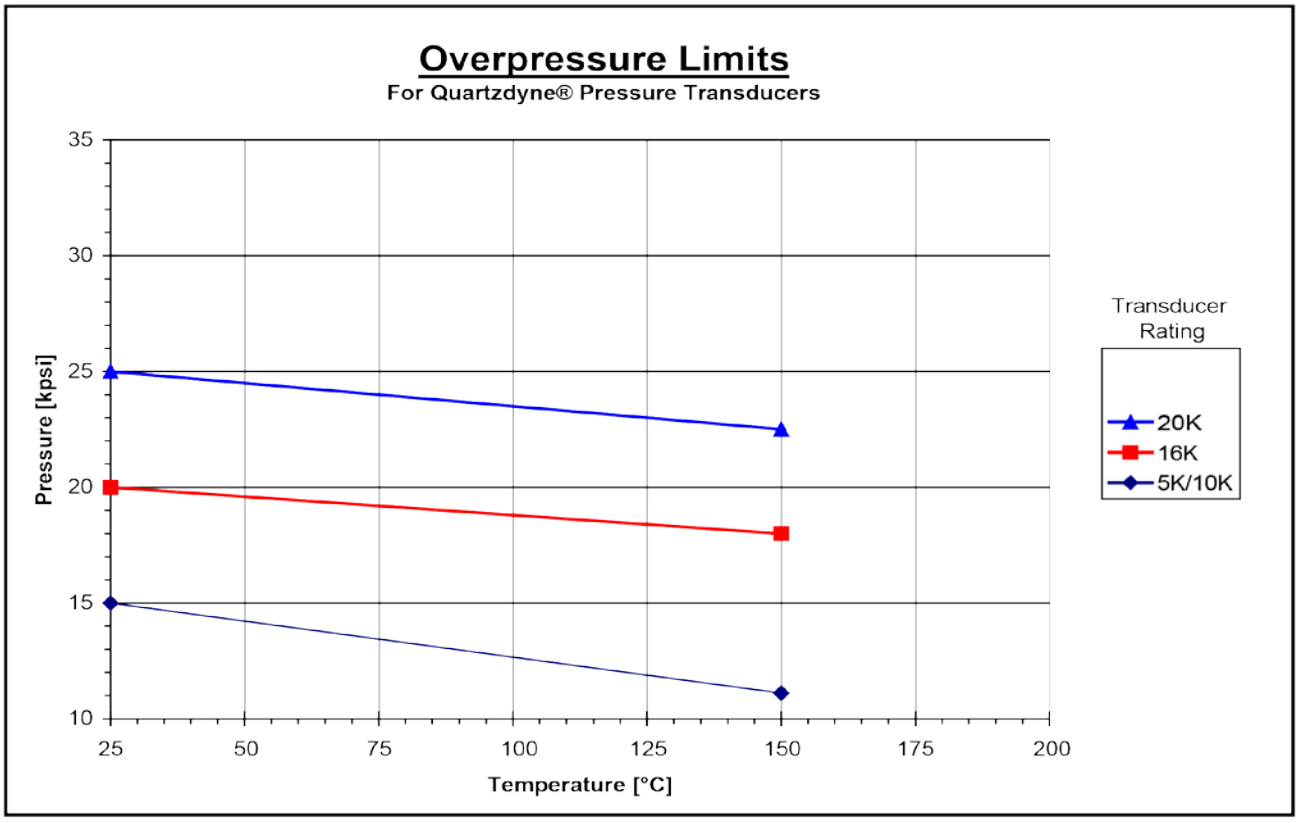
**Part Number: SPB302-xx-yyy**

**08/01/2011**

-xx is calibrated pressure in kpsi
-yyy is calibrated temperature in °C

# Mechanical Specifications for SPB302 Transducers

| | |
|---|---|
| Mechanical Proof Pressure | 23,000 psia [1585 bar] |
| Sensor Pressure Limit | varies with temperature; see plot below |
| Pressure Media | particle-free fluid compatible with Inconel 625 and Inconel 718 |
| Mechanical Shock | 500 g, 2 ms half-sine |
| Vibration | 10 – 2,000 Hz, 10.9 gRMS Random Vibration |
| Weight | 11.5 oz [326 g] |




This transducer allows you to construct a 0.75 inch [19mm] or larger diameter tool. When designing this transducer into your tool, please consider the following items:

1. Although the transducer includes grooves for o-rings, we do not recommend using o-ring seals for more than a few days' time. The most reliable seal is an electron beam (EB) weld to the transducer. We recommend that your electronics housing ID is 0.584 ± 0.015 inches. This improves its thermal response; more importantly, this is the way we calibrated it at Quartzdyne.

2. This transducer comes standard with a connector, secured to the side of the transducer. To remove the connector, follow electrostatic discharge (ESD) precautions.

3. If you thread into the end of the circuit carrier, allow for a 0.125 inch [3.2mm] minimum clearance hole for the output wires. The edges of this hole should be generously rounded to prevent insulation damage, and we recommend insulating the bundle in a piece of tubing (i.e., FEP Teflon heat shrink.)