

# HIGH PRESSURE/HIGH TEMPERATURE CONNECTORS

## **SOURIAU PA&E's geophysical and industrial application interconnect components offer exceptional reliability in harsh environments.**

In today's deep-well oil exploration, and in other extreme applications, it is important to realize that high pressures and temperatures act together, with their effects aggravated over time. High pressure alone is a challenge that becomes more complex when elevated temperatures are added to the mix, and increased exposure time to these hostile environments adds yet a further complication.

Using our patented Kryoflex® polycrystalline ceramic, we manufacture reliable high pressure/high temperature connectors and feedthrus that meet these environmental challenges. The controlled CTE and chemical bonding properties of our Kryoflex allow a rugged hermetic seal with excellent electrical characteristics even in extreme High Pressure/High Temperature environments.



### **Specifications and testing configuration:**

|  |  | Iron/Nickel Alloy                                                                                     |                |
|--|--|-------------------------------------------------------------------------------------------------------|----------------|
|  |  | Iron/Nickel Alloy                                                                                     |                |
|  |  | Nickel/Gold Plating                                                                                   |                |
|  |  | 0.040", 0.063", 0.094", 0.141" Diameter and Custom                                                    |                |
|  |  | Less than 1X10 <sup>-9</sup> cc/sec Helium at 1 atmospheric differential pressure                     |                |
|  |  | Connectors provide greater than 5,000 Megohms at 500 VDC when tested in IAW MIL-STD-1344, Method 3003 |                |
|  |  | Connectors exhibit no evidence of breakdown or flashover when tested in IAW MIL-STD-1344, Method 3003 |                |
|  |  | Connectors meet salt spray test in IAW MIL-STD-1344, Method 3003                                      |                |
|  |  | -55°C to 175°C                                                                                        | -60°C to 260°C |
|  |  | Will meet requirements of 25,000 PSI minimum                                                          |                |



**SOURIAU PA&E**

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