

Package Number	IN-LG-0163A/C
Package Name	Pressure / Differential Pressure / Temperature Gauges
Scope of Work (* To be confirmed)	<p>Scope of supply may be split into Hull (sub-package number IN-LG-0163C) and Topside (sub-package number IN-LG-0163A), depending on maturity of engineering design and availability of purchase MTO, and may be awarded to different vendors at different times.</p> <p>Below technical requirements apply to both Hull and Topside scopes.</p> <p>1.1 All materials shall be new and shall conform in appearance and quality to Industry Standards, applicable Codes and Standards and recommended practice.</p> <p>1.2 The Gauges shall be designed as per ASME B40.100, API RP 551, NACE MR-0175 and other applicable project requirements.</p> <p>Requirements for P and DP gauges:</p> <p>1.3 Pressure and differential Pressure Gauge supplied shall be of solid front, safety-pattern type in construction, heavy-duty with shatterproof safety laminated glass.</p> <p>1.4 Pressure Gauge shall be supplied with viscous-liquid-filled cases. Fill liquid shall be generally Glycerine, unless other liquid required based on ambient conditions. Filling liquid shall not freeze in worst case ambient conditions specified.</p> <p>1.5 Pressure and Differential Pressure Gauge shall be equipped with blowout protection. Location of the blowout device shall be at the back so that the functioning of the blowout device will not be blocked when the gauge is installed.</p> <p>1.6 Case shall be of safety pattern and constructed of SS316. Movement shall be made of SS304.</p> <p>1.7 Pressure Gauge sensing element shall be Bourdon type. For DP gauges sensing element shall be diaphragm or bellow. Material shall be as specified in the datasheet.</p> <p>1.8 SUPPLIER shall offer diaphragm seal type gauge for viscous fluid, low pressure etc. as specified in the datasheet.</p> <p>1.9 Where diaphragm seal is specified in the datasheet, the gauge shall be provided with integral or remote diaphragm seals. Diaphragm seal shall be an integral type with flange process connection. The diaphragm seal assembly shall be of welded construction. Screwed connections shall not be used.</p> <p>1.10 Accessories like Gauge Saver, snubber, 2 valve / 5 valve manifold, flushing ring shall be supplied as specified in data sheets.</p> <p>Requirements for Temperature gauges:</p> <p>1.11 Temperature gauges shall be of Bimetallic, every angle type. Bimetal combination shall be as per manufacturer standard to suit the temperature range required.</p> <p>1.12 Temperature gauges supplied shall be with shatterproof and anti-scratch glass.</p> <p>1.13 Case shall be heavy-duty type, liquid filled constructed of SS316 material. Movement shall be made of SS304. Fill liquid shall be generally Glycerine, unless other liquid required based on ambient conditions.</p>

	<p>1.14 Thermowell shall be of bar stock construction. Thermowell design shall be straight type for installation on vessel and tapered type for installation on pipeline.</p> <p>1.15 The SUPPLIER shall perform wake frequency calculations for all thermowell according to ASME PTC 19.3.</p> <p>1.16 Where specified in the individual datasheet, NDT shall be carried out on weld joints as per Specification</p> <p>1.17 NACE compliance is required if indicated in data sheets.</p> <p>Other requirements:</p> <p>1.18 The SUPPLIER shall provide documentation in accordance with the SUPPLIER Data Requirements Listing (SDRL) after issuing of Purchase Order.</p> <p>1.19 All drawings and documents prepared by SUPPLIER shall be checked and duly signed before submission.</p> <p>1.20 The use of asbestos is prohibited.</p> <p>1.21 Pressure/temperature ratings shall meet ASME B16.34 requirements.</p> <p>1.22 Positive Material Identification (PMI) to be done as per project specification.</p> <p>1.23 All materials shall be supplied with material certificates conforming to EN 10204, Type 3.1.</p> <p>1.24 Packing and preservation shall be provided as per project requirement.</p> <p>Total Qty (Estimated for both Hull and Topside): Pressure Gauges: 100 units Temperature Gauges: 50 units</p> <p>Flange ratings range from 150# to 1500#. Flange size shall be 2" or screwed connection. For thermowell, flange size shall be either 1-1/2" or 2". Materials for wetted parts can be either SS316 or Monel.</p> <p>Estimated contract award: Q4 2021 * Estimated delivery: Q2 2022 FCA factory *</p>
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Project Registration

Santos is committed to ensuring Australian Industry the opportunity to participate in the Barossa Project. Expressions of Interest are invited from contractors and suppliers with the relevant capability and capacity to undertake the scope of work.

This is a request for specific expressions of interest. Contractors and suppliers will be considered for prequalification and tender if suitably qualified against this package.

Note that an important part of the project registration process is to register an Expression of Interest at the correct Scope level.

Scope level definition:

Full scope: Able to produce / supply all the package.

Partial scope: Able to produce / supply one or more of the sub-packages.

All registrations are to be completed via ICN Gateway BarossaOffshore.icn.org.au. Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 [or resources@icnnt.org.au](mailto:resources@icnnt.org.au).

Project Website: Santos Australia