



## National Association of Testing Authorities, Australia

# SCOPE OF ACCREDITATION

### Fuel Calibration Services Pty Ltd

#### FUEL CALIBRATION SERVICES PTY LTD

| Accreditation Number: 19101 | Site Number: 21542 |

**Address Details:**

26A McKinnon Road  
PINELANDS, NT 829  
AUSTRALIA

**Website:** [www.fcsnt.com.au](http://www.fcsnt.com.au)

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**Availability:** Services available to external clients

**Note:** Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

**ISO/IEC 17025 (2005)**
**Infrastructure and Asset Integrity**

| SERVICE   | PRODUCT   | DETERMINANT  | TECHNIQUE      | PROCEDURE  | LIMITATION/RANGE |
|---|---|--|----------------|--|------------------|
| Evaluation of mechanical performance of pressure plant, pipelines and equipment | Hoses; Hoses - Air; Hoses - Fluid; Piping; Pressure fittings; Valves; | Change in length; Conductivity; Dimensional stability; Hydrostatic pressure; Pneumatic pressure; | Not applicable | AS 1180.5 Sections 7.1, 7.2; AS 1180.13A kinds 1 and 2 only; AS 1180.13B kinds 1 and 2 only; AS 1271 Section 2.6; AS 2117 Sections 2.1, 2.2, 2.6.1, 2.6.2; AS 2683 Sections 2.1, 2.5; AS 4037 Sections 17, 19; AS 4041 Sections 6.6, 6.7 | Up to 280 MPa    |

**ISO/IEC 17025 - Calibration** The uncertainty of measurement is reported as an expanded uncertainty having a level of confidence of 95% unless stated otherwise (2005)

**Flow Metrology**

| SERVICE   | PRODUCT       | DETERMINANT                                | TECHNIQUE        | PROCEDURE   | LIMITATION/RANGE  |
|---|---------------|--|------------------|---|---|
| Calibration of flow measuring devices and systems | Liquid meters | Flow rate; Volume (and nominal flow rate); | To be determined | including stating compliance with the specifications in the National Measurement Institute Test | flow meters for water and liquid hydrocarbons other than LPG at flow rates in the range 6 L/min to 3800 L/min |

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Procedure NITP 5.1 & 5.2      20 L to 200 L test volume

### MEASUREMENT UNCERTAINTY

0.1% of volume with a minimum 20 L test volume by the volumetric method using a reference volume measure

0.1% of volume with a minimum 200 L test volume by the volumetric method using a master meter

|   |               |  |                  |  |  |
|---|---------------|--|------------------|--|--|
| In-situ calibration of flow measuring devices and systems | Liquid meters | Flow rate; Volume (and nominal flow rate); | To be determined | including stating compliance with the specifications in the National Measurement Institute Test Procedure NITP 5.1 & 5.2 | flow meters for water and liquid hydrocarbons other than LPG at flow rates in the range 6 L/min to 3800 L/min<br>20 L to 200 L test volume |
|---|---------------|--|------------------|--|--|

### MEASUREMENT UNCERTAINTY

0.1% of volume with a minimum 20 L test volume by the volumetric method using a reference volume measure

0.1% of volume with a minimum 200 L test volume by the volumetric method using a master meter

**ISO/IEC 17025 - Calibration** The uncertainty of measurement is reported as an expanded uncertainty having a level of confidence of 95% unless stated otherwise (2005)

### Pressure Metrology

| SERVICE  | PRODUCT  | DETERMINANT    | TECHNIQUE              | PROCEDURE   | LIMITATION/RANGE   |
|--|--|----------------|------------------------|---|--|
| Calibration of pressure and vacuum measuring equipment | Pressure gauges; Pressure recorders; Pressure transducers; | Gauge pressure | By pressure calibrator | AS 1349; MSA Test Method 2 and Technical Procedure METP-101 (Pressure gauges including test gauges) Manufacturer's manuals/guidelines; MSA Test Method 1 and Technical Procedure METP-101 (Transducers) Manufacturer's manuals/guidelines; MSA Test Method 2 and Technical Procedure METP-101 (Chart recorders) | 20 kPa to 2000 kPa (pneumatic measurement)<br>100 kPa to 120 MPa (hydraulic measurement)<br>100 kPa to 60 MPa (oil-free hydraulic measurement) |

### MEASUREMENT UNCERTAINTY

0.06% of reading or 0.2 kPa (whichever is greater) from 20 kPa to 2000 kPa (pneumatic measurement)

0.06% of reading or 0.5 kPa (whichever is greater) from 100 kPa to 120 MPa (hydraulic measurement)

0.06% of reading or 0.5 kPa (whichever is greater) from 100 kPa to 60 MPa (oil-free hydraulic measurement)



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**Torque**

| SERVICE   | PRODUCT         | DETERMINANT | TECHNIQUE                                      | PROCEDURE   | LIMITATION/RANGE   |
|---|-----------------|-------------|--|---|--------------------|
| Calibration of torque measuring and testing equipment | Torque wrenches | Torque      | Comparison measurement with reference standard | including compliance with AS 4115 or BS EN ISO 6789 | 10 N.m to 1000 N.m |

**MEASUREMENT UNCERTAINTY**

1.0 % of reading

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