WARRANTIES & CERTIFICATIONS

EU DECLARATION OF CONFORMITY

All Macnaught flow meters are designed & manufactured under the guidelines of Directive 2014/68/EU covering Pressure Equipment placed into the EU marketplace. These meters have been assessed to fall within the classification of 'Piping' and comply with Article 4(c)(ii) Table 8 or 9 depending on fluid group 1 or 2 respectively. All meters comply with Article 4, paragraph 3 Sound Engineering Practice and shall be accompanied by adequate instructions for use. In all cases the flow meters EU Declaration of conformity shall be taken as the controlling document that outlines any restrictions on pressure ratings. It is important to always check this document before ordering a meter since it will be updated in line with any changes to the directives.

INTRINSICALLY SAFE APPROVAL

For current list of all intrinsically safe approval certificates, Please refer to Macnaught.com.au/approvals

FLANGE TECHNICAL INFORMATION

Macnaught meter flanges are sized to flange requirements in the ASME B31.3 Code of Pressure Piping at the stated meter flange's rated pressure (this may differ from the meter's rated pressure); the sizing is based on the meter material properties taken at ambient temperature. Gasket factors used for stainless steel flanges to develop adequate installation and operation gasket seating force are:

- Raised face type flange ‘m’ = 5 and ‘y’ = 15 MPa requiring bolts of grade ASTM A193-B7.
- Flat face type flange ‘m’ = 1 and ‘y’ = 1.4 MPa, typical of soft rubber or neoprene, requiring bolts of grade ASTM A193-B7.

The use of gaskets with factors larger than those stated above for the respective flange face types is the responsibility of the end user/installer. For materials other than stainless steel offered in the Macnaught meter range please consult the Macnaught web site for current technical data on flange size, material specification, and pressure rating.

FLOW METER TEST REPORT

Nominal K-Factor - Mechanical

Each meter is checked for accuracy after being manufactured. The process is to enter the nominal ‘K Factor’ for that meter and to verify using a one point calibration at the mid range of flow rate of the meter against an approved master meter. Macnaught standard test is at one point, additional points can be done on request and would incur additional costs.

Specific K-Factor - All other meters

A specific K-Factor is calculated by measuring the actual pulses relative to the approved master meter.

A certificate as illustrated below is included in the documentation package with the meter. Master meters have their accuracy checked and proving certificates are issued by the National Measurement Institute, on regular basis.

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Flow Meter Test Report

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial No.</th>
<th>Test Media</th>
<th>Calibration Fluid</th>
<th>m</th>
<th>y</th>
<th>Test Results</th>
<th>Accuracy Of Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX25P-1SX</td>
<td>C508512</td>
<td>Exxsol D130</td>
<td>6 cPs</td>
<td>5</td>
<td>15</td>
<td>36.21</td>
<td>+/-0.50</td>
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<td>36.19</td>
<td>+/-0.50</td>
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<td>36.16</td>
<td>+/-2.22</td>
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<td>30.0</td>
<td>60.0</td>
<td>90.0</td>
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<td>57.72</td>
<td>113.61</td>
<td>168.06</td>
<td>+/-0.50</td>
</tr>
</tbody>
</table>

The tests, measurements or calibrations covered by this document have been performed by volumetric comparison with master meters. The master instruments used for testing meet ISO17025 and are traceable to international standards.

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