STANDARD SPECIFICATION
Gauge with Blow-out Device (Weatherproof Construction to IP66)

Sizes
63, 100 and 150 mm

Case/Bezel
304 Stainless Steel (316 Stainless Steel can be supplied on request)

Socket & Element
Brass, Phosphor Bronze / Beryllium Copper

Movement
Brass

Blowout Protection
Blow-out plug at the top of the case

Dial
White Anodised Aluminium (Black Printing)

Pointer
Black Aluminium

Window
Sheet Glass

Traceability
All instruments are individually calibrated and have an unique Serial Number.

Certification available on request
• Certificate of Conformity Traceable to National Standards
• Group Certification (Pressure Test Calibration Statement)
• Point to Point Test Certificate

Safety
All units are manufactured to comply with EN 837-1, S1 Blowout device specification and other regulatory standards including PED 2014/68/EU.

Installation instructions
Refer to EN 837-2 and our Guidance On Use of Equipment data sheet.

Accuracy class

<table>
<thead>
<tr>
<th>ACCURACY CLASS</th>
<th>EN837-1 (Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 600 bar</td>
<td>&gt;600 - 1000 bar</td>
</tr>
<tr>
<td>63mm</td>
<td>1.0</td>
</tr>
<tr>
<td>100mm</td>
<td>1.0 (0.6)</td>
</tr>
<tr>
<td>150mm</td>
<td>1.0 (0.6)</td>
</tr>
</tbody>
</table>

0.5% Accuracy on request (Consult Sales)

Over-pressure

<table>
<thead>
<tr>
<th>0 - 100 bar</th>
<th>&gt;100 - 600 bar</th>
<th>&gt;600 - 1000 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25 X FSD</td>
<td>1.15 X FSD</td>
<td>1.10 X FSD</td>
</tr>
</tbody>
</table>

Scale Range
Vacuum / Compound to -1 to 0 to -1 to 24 bar
63mm gauge 0 to 600 bar
100 & 150mm gauges 0 to 1000 bar
Or other equivalent units of pressure or vacuum
PED 2014/68/EU limits, GAS Group.1 <1000 bar,

Pressure Connection Thread
1/8", 1/4", 1/8", 1/2" NPT, BSP, BSPT

MAX PRESSURE EN 837-1

<table>
<thead>
<tr>
<th>THREAD EN837</th>
<th>NPT (Brass)</th>
<th>BSP (Brass)</th>
<th>BSPT (Brass)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>400 bar</td>
<td>400 bar</td>
<td>400 bar</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>600 bar</td>
<td>600 bar</td>
<td>600 bar</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>600 bar</td>
<td>600 bar</td>
<td>600 bar</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1000 bar</td>
<td>600 bar</td>
<td>600 bar</td>
</tr>
</tbody>
</table>

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS

Specifications and dimensions in this leaflet, are subject to change without prior notice.
# MODELS-521, 522, 523, 524

Stainless steel case Brass internals Pressure Gauges

## MODELS-521, 522, 523, 524

**Stewart-Buchanan Gauges LTD**

Sales Office & Manufacturing Facility - 7 Garrell Road, Burnside Industrial Estate, Kilsyth, Glasgow G65 9JX, SCOTLAND

Tel: +44 (0) 1236 821533 | Fax: +44 (0) 1236 824090 | E-mail: sales@stewarts-group.com | Web: stewarts-group.com

**DATA SHEET REF: 52-REV01-14**

### General Arrangement Dimensions in mm, tol' ± 1mm

<table>
<thead>
<tr>
<th>ø mm</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>CUT OUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>63 (2½&quot;)</td>
<td>34.5</td>
<td>78.5</td>
<td>12.5</td>
<td>31.5</td>
<td>41.8</td>
<td>9.5</td>
<td>68.4</td>
<td>21.5</td>
<td>18</td>
<td>13</td>
<td>62</td>
<td>85.2</td>
<td>75</td>
<td>3.5</td>
<td>3.8</td>
<td>66</td>
</tr>
<tr>
<td>100 (4&quot;)</td>
<td>50.7</td>
<td>121</td>
<td>16.2</td>
<td>49</td>
<td>66.9</td>
<td>14.5</td>
<td>112.2</td>
<td>24.5</td>
<td>32</td>
<td>18</td>
<td>99</td>
<td>132.5</td>
<td>118</td>
<td>6</td>
<td>6</td>
<td>106</td>
</tr>
<tr>
<td>150 (6&quot;)</td>
<td>52.7</td>
<td>174</td>
<td>18.4</td>
<td>49.5</td>
<td>92.1</td>
<td>15.2</td>
<td>161.7</td>
<td>24</td>
<td>32</td>
<td>17.8</td>
<td>148</td>
<td>186</td>
<td>168</td>
<td>5.8</td>
<td>5.8</td>
<td>153</td>
</tr>
</tbody>
</table>

**MODEL - 521**
Surface Mounted

**MODEL - 522**
Direct Mounted (Standard)

**MODEL - 522-BC**
Direct Mounted - Rear Connect

**MODEL - 523**
Flush Mounted - Screw Fixing

**MODEL - 524**
Flush Mounted - Clamp Fixing

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