APPLICATIONS
Gas and Steam in excess of 25 Bar pressure can represent danger if there is a rupture in the Bourdon Tube measuring this gas. To minimize the danger, gauges in this application should be Safety Pattern type, having solid front between Bourdon tube and dial, safety window and blow-out back to allow any blast to release to the rear of gauge. Although there is not necessarily any great risk in the use of gauges for gases at pressure less than 25 Bar, a blow-out disc should be incorporated and the purchaser should have regard to the nature of the gas and the installation conditions and, if necessary, order a gauge of the Safety Pattern type.

STANDARD SPECIFICATION
Solid Front Safety Pattern Gauge
(Weatherproof Construction to IP65)

Sizes
4½" (115mm)

Case/Bezel
Moulded Fibreglass / Phenolic
Full Safety Pattern Construction
Threaded Fibreglass / Polycarbonate Window Ring
Elastometer with integral O’Ring Seal
Polopropylene with Reinforced Fibreglass Blow-Out Back

Socket & Bourdon Tube
316 Stainless Steel

Movement
Stainless Steel Construction

Blowout Protection
S3 Baffle wall with blow-out backplate

Dial
White Anodised Aluminium (Black Printing)

Pointer
Black Aluminium

Window
Laminated Safety 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
- BS EN 10204 3.1 Material Certification

Safety
All units are manufactured to comply with EN 837-1, S3 Safety Pattern 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 EN837-1 (Optional)</th>
<th>Higher Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 600 bar</td>
<td>1.0 (0.6)</td>
</tr>
<tr>
<td>&gt; 600 - 1600 bar</td>
<td>1.0</td>
</tr>
<tr>
<td>&gt;1600 - 2500 bar</td>
<td>1.6</td>
</tr>
</tbody>
</table>

0.3% Accuracy on request (Consult Sales)
Higher Ranges on request (Consult Sales)

Over-pressure
- 0 - 100 bar
- >100 - 600 bar
- >600 - 1600 bar
- >1600 - 2500 bar

Scale Range
Vacuum / Compound to -1 to 0 to -1 to 24 bar (Where applicable)
Standard 0 to 2500 bar
Or other equivalent units of pressure or vacuum
PED 2014/68/EU limits, GAS Group.1 <3000 bar,

Pressure Connection Thread
¾", ¼", ½", ⅝", ⅞", Ⅲ/₄" NPT, BSP, BSPT (See High Pressure Options)

See Page-2 for Dimension

Operating Temperature Range EN837
-20° to 60°C (-4°F to 140°F)
Options for lower/Higer operating ranges (Contact Sales)

Temperature Error
Additional error when temperature changes from reference Temperature of 20°C (68°F) ±0.4% for every 10°C (18°F) rising or Falling % of span

Optional Extras
- Micro adjustable pointer /Black finish
- Optional dial materials & Custom markings
- ISO 15156 / NACE MR-01-75 wetted parts
- Perspex window
- Orifice Restrictor Screw (standard Ø0.9mm, Ø0.4mm on request)
- Customer logo printed on dial
- Nitiletegage" (See data sheet)
- Vibragauge® (See data sheet)
- Snubbagauge® (See data sheet)
- Gauge overpressure up to 130% of FSD

Further options on request

Available with a wide range of accessories
Interposed: Syphons, Snubbers, Overrange gauge protectors.
Additional: Swivel Adaptors, Valves, Manifolds etc ensure that STEWARTS can provide you with the right product to suit any individual application or requirement.

High Pressure Options Available

Specifications and dimensions in this leaflet, are subject to change without prior notice.
PHENOLIC SAFETY PATTERN GAUGE

Surface mounted gauges should be fitted with distance pieces of not less that 3/4" (20mm) long to allow them to be mounted away from wall or panel.

MODEL 1221
DIRECT MOUNTED

General Arrangement Dimensions in mm, tol' ± 1mm

<table>
<thead>
<tr>
<th>Dim</th>
<th>UNIT</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>
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</thead>
<tbody>
<tr>
<td>Dial Ø</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.5&quot; (115mm)</td>
<td>mm</td>
<td>148</td>
<td>129</td>
<td>83</td>
<td>140</td>
<td>84</td>
<td>38</td>
<td>8.5</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>5.8</td>
<td>5.1</td>
<td>3.3</td>
<td>5.5</td>
<td>3.3</td>
<td>1.5</td>
<td>0.3</td>
<td>0.6</td>
</tr>
</tbody>
</table>