The ‘GB’ Type Gauge Bleed Needle Valve is designed for safe and reliable isolation, giving bubble tight shut off, with non-rotating & anti-galling tip and dynamic self-adjusting spindle seal to give long service life in a variety of applications. The additional ability to bleed the gauge cavity to atmosphere, for simple calibration, is included.

![Diagram of GB Type Needle Valve](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB1F</td>
<td>½&quot;</td>
<td>3.6</td>
<td>2.9</td>
<td>1.1</td>
<td>0.5</td>
</tr>
<tr>
<td>GB1M</td>
<td>½&quot;</td>
<td>3.6</td>
<td>3.9</td>
<td>1.1</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Key Features of the Oliver Needle Valve range**

- Non rotating tip - self centering & anti-galling
- Piston ring - gives dynamic adjustment of gland seal in response to pressure change
- Anti-blow out spindle - a major safety feature
- Secure seal - precision machined to give leak free operation for the life of the valve. Available in either PTFE or Grafoil

**Standard Specification**

<table>
<thead>
<tr>
<th>Pressure: 6000psi</th>
<th>Packing: PTFE</th>
<th>Handle: T-Bar</th>
<th>Bore: 0.21&quot; (5.4mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp: 240 deg C</td>
<td>Thread form: NPT</td>
<td>Seat: Metal to metal</td>
<td>CV: 0.46</td>
</tr>
<tr>
<td>1/2&quot; Inlet / Outlet Connections</td>
<td></td>
<td></td>
<td>1/4&quot; UNF Bleed Screw</td>
</tr>
</tbody>
</table>

**Ordering Code**

(Typical example) → GB1F S / BT / AT

- **Type**
  - GB1F - Female x Female
  - GB1M - Male x Female

- **Material**
  - S - 316S31 Stainless Steel
  - M - Monel (400)
  - HC - Hastalloy (C276)
  - (Others available)

- **Optional Connections (NPT Standard)**
  - BT - BSP Taper
  - BP - BSP Parallel (top sealing)
  - BW-SCH*** - Butt weld (Schedule ***)

- **Options**
  - AG - Grafoil
  - AT - Anti-Tamper
  - HL - Handle Locking
  - HL-PI - Handle Locking + Position Indicator
  - HW - Hand Wheel
  - LT 100 - Cryogenic Head Unit (-100°C)
  - MT - Metering Tip
  - NA - NACE MR-01-75 (latest revision)
  - OXY - Oxygen Cleaned
  - PK - PEEK Soft Tip (not available oxygen cleaned)