**MAXIMUM BACKUP GRIP SIZE OF 8 3/4" IS ACHIEVED USING SDI86 DIES**

**MAXIMUM BACKUP PIPE SIZE IS 8 5/8"**

**MAXIMUM TONG SIZE IS 7 5/8"**

**** IT IS ACCEPTABLE TO USE LOW FRICTION JAWS AS LONG AS THE TORQUE IS LIMITED TO 15000 FT. LBS

---

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**OVERALL LENGTH 32"**

**Handle Length 37.26"**

**MAXIMUM LENGTH WHEN DOOR IS OPEN 57"**

---

### TONG SPECIFICATIONS

<table>
<thead>
<tr>
<th>Max Torque (FT LBS/NM)</th>
<th>30000</th>
<th>40700</th>
</tr>
</thead>
<tbody>
<tr>
<td>TONG Arm Length (INCH/CM)</td>
<td>37.3</td>
<td>94.7</td>
</tr>
<tr>
<td>Backup Arm Length (INCH/CM)</td>
<td>32.0</td>
<td>81.3</td>
</tr>
<tr>
<td>Mass (LBS/KG)</td>
<td>3090</td>
<td>1520</td>
</tr>
</tbody>
</table>

### TORQUE (FT LBS/NM, ESTIMATED)

- At Pressure (PSI/BAR) 2700 186
- Hi Gear/Full 4300 5800
- Low Gear/Full 3000 40700

### SPEED (RPM, ESTIMATED)

- At Flow Rate (GPM/LPM) 60 227
- Hi Gear/Full 65
- Low Gear/Full 9

### TONG AND BACKUP MAX TORQUE CAPACITY IN FT-LBS @ 2700PSI

<table>
<thead>
<tr>
<th>Pipe Diameter</th>
<th>DoVetail Dies</th>
<th>GritFace Dies</th>
<th>Steel Dies</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 3/4&quot; *</td>
<td>30,000</td>
<td>30,000</td>
<td></td>
</tr>
<tr>
<td>7 5/8 ***</td>
<td>30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 7</td>
<td>28,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 6 5/8</td>
<td>23,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 5 1/2</td>
<td>19,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 5</td>
<td>19,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 3 1/2</td>
<td>19,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 2 7/8</td>
<td>19,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Down to 2 3/8</td>
<td>19,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**UNDER REVISION**

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**Maximum Backup Grip Size of 8 3/4" is achieved using SDI86 Dies**

**Maximum Backup Pipe Size is 8 5/8"**

**Maximum Tong Size is 7 5/8"**

**** It is acceptable to use low friction jaws as long as the torque is limited to 15000 FT. LBS

---

**Graphical Representation of Tongs and Backups**

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**Table of Parts and Quantities**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>P/N</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>CLE7625UHT-08</td>
<td>ASSEMBLY, TONG, 7 5/8 - 30K</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>MK7600-05</td>
<td>KIT, MOUNTING</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>BUC8625-06</td>
<td>ASSEMBLY, BACKUP, 8625 CLINCHER, COMPRESSION</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>VP7625UHT-335SAE</td>
<td>ASSEMBLY, VALVE PACKAGE, DVG35</td>
</tr>
</tbody>
</table>

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**Revision Log**

- **A** N/A INITIAL RELEASE N/A N/A
- **B** 16-0139 ADDED INFO CHARTS TO DRAWING M.BUDDEN 6/9/2016
- **C** 17-0026 UPDATED THE TONG CAPACITY CHART J. KELLY 2017

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**Proprietary Statement**

**ASSEMBLY, TONG, 7625-30K X 8625 CLINCHER BU, COMPRESSION**

**Material**

| 80-760-300-860-000-30-00 |
| LBS | N/A |

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**Third Angle Projection**

**Approved**

**Checked**

**Drawn**

**Weight**

**07/14/2014 B.PEACE**

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**Notes:**

1. Dimensions are in Inches
2. Tolerances:
   - Angular: 1/16
   - Fractional: 1/32
   - Two Place Decimal: 0.02
   - Three Place Decimal: 0.005
3. Identify P/N & Matl by 1/8 to 1/4 Etched Letters, Denoted by "X"
4. Remove Burrs & Sharp Edges with 1/64 x 45 MAX
5. Machined Fillet Radial Shall Be 1/32
6. Final Surface Roughness AVG. (Ra) Shall Be ≤ 250 Microinches
7. Denotes Critical Dimension; 100% Inspection Required
8. A Triangle Denotes A Revision
9. Interpret Drawing Per ASME Y14.5-2009

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**Under Revision**

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