Burner Boom, Box Style

MODULAR BURNER BOOM ASSEMBLY FOR OFFSHORE APPLICATIONS

The Box-Style Burner Boom is a portable box-shaped, truss-style assembly comprised of 30-ft sections easily configured to accommodate 60- and 90-ft lengths. The length of the boom is determined by the level of heat radiation and anticipated flow rates documented during the development of the Design of Service which facilitates safe and effective well testing operations.

The self-contained boom is secured to the rig structure by a king post, back struts, vertical suspension, and horizontal wind-stay cables and does not need additional support from the rig crane. All oil, gas, and pilot lines are mounted inside the box sections for easy servicing and makeup by way of a metal walkway designed into the center of the boom itself. The vent, air, and water lines are incorporated into the structure of the boom to keep the overall boom as light as possible. Typically installed on either side of an offshore rig, the flow to the burner can be diverted to the downwind boom for safe operations by use of a diverter manifold system.

APPLICATIONS
» Exploration and appraisal well testing
» Cleanup and flowback
» Extended well testing

FEATURES AND BENEFITS
» Modular boom can be easily configured as 60- or 90-ft units.
» Designed for horizontal racking, saving time between rig moves
» Lightweight design reduces crane capacity restrictions and simplifies installation.
» Integral air, water, and vent lines reduce weight and piping congestion.
» Protected walkway for added safety
» Simplified boom/king post interface connection minimizes personnel exposure during rig up and rig down.
» Design of Service software package is used to predict heat radiation and noise levels during flaring of hydrocarbons under different environmental conditions to determine whether the radiant heat levels have been reduced to satisfactory levels outlined in API 521.
» Designed for offshore applications
## Equipment Specifications

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight (Dry)</th>
<th>Oil Line MAWP/Line Size</th>
<th>Gas Line MAWP/Line Size</th>
<th>Add. Gas Line MAWP/Line Size</th>
<th>Water Line MAWP/Line Size</th>
<th>Air Line (x 2) MAWP/Line Size</th>
<th>Gas Pilot Line MAWP/Line Size</th>
<th>Walkway</th>
<th>Burner Decking</th>
<th>King Post, Struts, and Mini King Post</th>
<th>Service</th>
<th>Design Load Burner</th>
<th>Design Maximum Load Wind</th>
<th>Design Load Heave</th>
<th>Installation</th>
<th>Design Load Horizontal</th>
<th>Reaction Loads, King Posts, Mini King Posts</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>102076787</td>
<td>Burner Boom 60- and 90-ft box truss with king post</td>
<td>60 ft (18.3 m) 7124 lb (3231 kg) / 90 ft (27.4 m) 9,800 lb (4445 kg)</td>
<td>1440 psi (99.3 bar) / 3-in. Sch. 80 Fig. 206 female (thread) union</td>
<td>720 psi (49.6 bar) / 6-in. Sch. 40 Fig. 206 female (thread) union</td>
<td>720 psi (49.6 bar) / 4-in. Sch. 40 Fig. 206 female (thread) union</td>
<td>720 psi (49.6 bar) / 2-in. Sch. 40 Fig. 206 female (thread) union</td>
<td>1440 psi (99.3 bar) / 3-in. Sch. 80 Fig. 206 female (thread) union</td>
<td>240 psi (16.5 bar) / ½-in. Sch. 40 Hex union</td>
<td>Included as inboard style. Live load limit 20.4 lb/ft² (100 kg/m²)</td>
<td>Yes, used for burner maintenance. Live load limit 660 lb (300 kg)</td>
<td>Included</td>
<td>H₂S</td>
<td>60 ft and 90 ft: 2640 lb (1202 kg) maximum</td>
<td>70 mph (31 m/s) operating / 100 mph (45 m/s) storm</td>
<td>1G +/- 0.6G</td>
<td>Jack-up and floating rigs</td>
<td>Per design wind speed</td>
<td>Refer to D00540883 for standard configuration reaction loads.</td>
<td>Piping per ASME B31.3, Structure per ISO 19902, CE Marked</td>
</tr>
</tbody>
</table>

**Notes:**
- Refer to the equipment databook for individual equipment specifications.
- These ratings are guidelines only.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com