Knock-Out Pot

The Well Test Knock-Out Pot (KOP) is designed as a two-phase vertical separator.

Depending on the requirement, the KOP can be strategically positioned prior to the flare to counter any upset conditions:

- Downstream of the separator to remove liquid droplets entrained in the gas and to knock out any liquid carryover from the separator gas line
- Downstream of the tank to remove liquid droplets entrained in the gas and to knock out any liquid carryover from the tank vent line
- Relief Line to act as an early-warning detection system for manual intervention.

The KOP features the following safety elements:

- Liquid safety
  - Sight glass (manual monitoring)
  - High-level audible alarm
  - Low-level audible alarm
- Pressure safety
  - Pressure Safety Valve (PSV)

The KOP can be manufactured in various sizes. They are made with the necessary inlet and outlet piping and safety-relief device where required. An access hatch enables internal inspection.

Applications
- Exploration and appraisal well testing
- Cleanup and flowback
- Production, inline testing (including multi-phase flow metering)
- Extended well testing
- Early production facilities

Features and Benefits
- Removes liquid droplets entrained in the gas
- Uses standardized equipment to facilitate ease of transportation, maintenance, and operations (saving time and cost)
- Knocks out any liquid carry-over from the separator and/or tank lines
- Incorporates safety devices into the design
- Removes the liquids from the vessel via drain valve (Measurement devices can be installed.)
- Preserves equipment integrity and client test objective (designed and operated in accordance with industry standards and best practices)
# Equipment Specification Data

(Detailed Equipment Specification Data can be obtained within CWI Database)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Working Pressure / Working Temperature</th>
<th>Service</th>
<th>Liquid Capacity</th>
<th>Gas Flow Rate</th>
<th>Gas Inlet</th>
<th>Gas Outlet</th>
<th>Relief Outlet</th>
<th>Drain</th>
<th>Skid (L × W × H)</th>
<th>Weight (Gross)</th>
<th>Weight (Tare)</th>
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</thead>
<tbody>
<tr>
<td>102132362</td>
<td>Knock-Out Pot</td>
<td>1,440 psi (99.3 bar) at -20 to 122°F (-29 to 50°C)</td>
<td>H₂S</td>
<td>5 bbl (gross)</td>
<td>As per Design of Service</td>
<td>4 in. Fig. 206 Female (T)</td>
<td>4 in. Fig. 206 Male (W)</td>
<td>4 in. Fig. 206 Male (W)</td>
<td>2 in. Fig. 206 Male (W)</td>
<td>7.6 ft × 6.0 ft × 15.6 ft (2.32 m × 1.83 m × 4.75 m)</td>
<td>25,300 lb (3048 kg)</td>
<td>12,320 lb (5600 kg)</td>
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<tr>
<td>102071299</td>
<td></td>
<td>1,330 psi (91.7 bar) at 250°F (121°C)</td>
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<td></td>
<td>6 in. Fig. 206 Female (T)</td>
<td>6 in. Fig. 206 Male (W)</td>
<td>6 in. Fig. 206 Male (W)</td>
<td>2 in. Fig. 206 Male (W)</td>
<td>7.6 ft × 6.0 ft × 15.6 ft (2.32 m × 1.83 m × 4.75 m)</td>
<td>25,300 lb (3048 kg)</td>
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<tr>
<td>102000472</td>
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<td>1,309 psi (90.3 bar) at 300°F (149°C)</td>
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<td>25,300 lb (3048 kg)</td>
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<td></td>
<td></td>
<td>720 psi (49.6 bar) at -20 to 300°F (-29 to 149°C)</td>
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</tbody>
</table>

Notes:
1. Refer to the equipment databook for individual equipment specifications.
2. Equipment is designed/certified to ASME VIII Div.1 U-Stamp, ASME B31.3, B31.10M, B16.5, NACE MR 0175, PED, CE, NORSOK, DNV 2.7-1, etc. standards as applicable and documented on the individual Equipment Specification Data Sheets (ESDS).
3. Knock Out Pot Flow rates are to be calculated via the Design of Service software package taking into consideration all variables (i.e. Vessel sizing, Internals, Safety Systems, Measurement Devices, Pipe/Component Sizing, etc.).
4. These ratings are guidelines only. Contact your local Halliburton SWT representative for more information.

For more information contact your local Halliburton representative or email us at welltesting@halliburton.com.