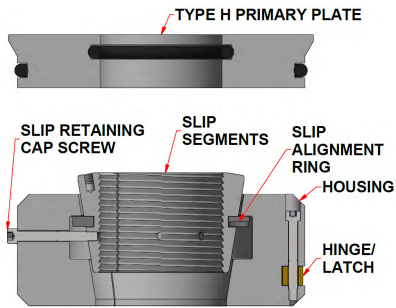


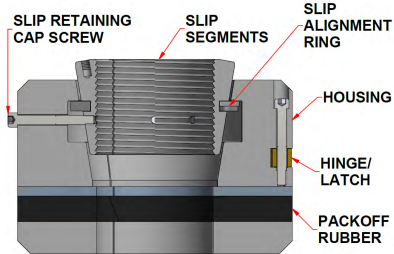


## C-21



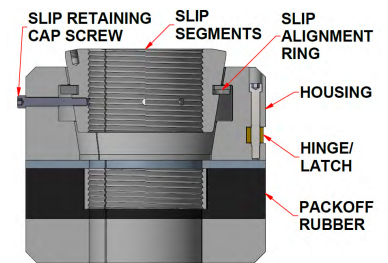
- Designed to suspend light to medium casing loads.
- Controlled friction reduces casing deflection and provides a hanging capacity of 50% of the casing's body yield.

## C-22



- Designed to suspend medium casing loads.
- Controlled friction reduces casing deflection and provides a hanging capacity of 50% of the casing's body yield.

## C-29



- Designed to suspend medium to heavy casing loads.
- Controlled friction reduces casing deflection and provides a hanging capacity of 80% of the casing's body yield.

### PRODUCT CHARACTERISTICS

- Valveworks USA casing hangers are combined in a single unit that incorporates packoff, slip bowl, and slips.
- C-22 and C-29 casing hangers provide automatic packoff sealing by energizing the seal when the string weight is applied.
- When the casing load is suspended on C-22 and C-29 casing hangers, the packoff automatically seals the casing annulus below the slips, providing annulus packoff before removal of the blowout preventer (BOP) and cutting the casing.
- Valveworks USA casing hanger's controlled friction reduces casing deflection and provides excellent hanging capacity.
- The casing load is distributed equally to the bowl of the casing head due to even engagement of the slips.
- Valveworks USA casing hangers have been enhanced over time to become an industry standard, allowing for good product availability.
- Valveworks USA casing hangers are engineered, designed, and tested to meet and exceed industry standards.
- Manufactured using high-quality materials and processes in accordance to strict Quality Management System requirements.
- Available in Product Specification Level (PSL) 1, 2, and 3 with PR-2 design validation.
- Available in Material Class AA and Material Class DD-NL.
- Full material certification data book is available upon request.
- Valveworks USA casing hangers are economical and are easily installed.
- Available Monogrammed to API 6A latest edition.



*\*A Type H Primary Plate is required to achieve annulus seal on C-21 casing hangers.*

*\*See above for specific capacities.*

*Note: To maintain an equally distributed casing load, the slip segments may require adjustment prior to the string weight being applied.*

# WV VALVEWORKS USA

**WHEN PRESSURE DEMANDS QUALITY®**

**Certificate of Authority to use the Official API Monogram**  
**License Number: 6A-0656** **ORIGINAL**

The American Petroleum Institute hereby grants to

**VALVEWORKS USA**  
**1650 Swan Lake Road**  
**Bossier City, LA**

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-6A** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6A-0656**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.



The scope of this license includes the following: Actuators, Adapter and Spacer Spools, Casing and Tubing Hangers, Casing and Tubing Heads, Cross-Over Connectors, Flanged Connectors, Other End Connectors, Surface and Underwater Safety Valve Actuators, Surface and Underwater Safety Valves, Tees and Crosses, Threaded Connectors, Top Connectors, Tubing Head Adapters, Valves at PSL 1, PSL 2, PSL 3, PSL 3G

QMS Exclusions: No Exclusions Identified as Applicable

**Effective Date: OCTOBER 27, 2014**  
**Expiration Date: NOVEMBER 10, 2015**

American Petroleum Institute  
  
Vice President, Global Industry Services

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**Certificate of Authority to use the Official API Monogram**  
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The scope of this license includes the following:

- Actuators at PSL 1, PSL 2, PSL 3, PSL 3G
- Adapter and Spacer Spools at PSL 1, PSL 2, PSL 3, PSL 3G
- Casing and Tubing Hangers at PSL 1, PSL 2, PSL 3, PSL 3G
- Casing and Tubing Heads at PSL 1, PSL 2, PSL 3, PSL 3G
- Cross-Over Connectors at PSL 1, PSL 2, PSL 3, PSL 3G
- Flanged Connectors at PSL 1, PSL 2, PSL 3, PSL 3G
- Other End Connectors at PSL 1, PSL 2, PSL 3, PSL 3G
- Surface and Underwater Safety Valve Actuators at PSL 1, PSL 2, PSL 3, PSL 3G
- Surface and Underwater Safety Valves at PSL 1, PSL 2, PSL 3, PSL 3G

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- Tees and Crosses at PSL 1, PSL 2, PSL 3, PSL 3G
- Threaded Connectors at PSL 1, PSL 2, PSL 3, PSL 3G
- Top Connectors at PSL 1, PSL 2, PSL 3, PSL 3G
- Tubing Head Adapters at PSL 1, PSL 2, PSL 3, PSL 3G
- Valves at PSL 1, PSL 2, PSL 3, PSL 3G

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