

Model 2 RTTS[®] Circulating Valve

EFFICIENT, SAFE METHOD OF PERFORMING INFLOW/NEGATIVE TESTS

OVERVIEW

The Model 2 RTTS[®] circulating valve provides an efficient, safe method of performing inflow/negative tests while maintaining set weight on the packer. This locked-open valve serves as both a circulating valve and a bypass valve, and is held closed by internal internal pressure and/or pipe weight.

A straight J-slot in the circulating valve allows the valve to be used with a straight J-slot in the packer assembly. This combination eliminates the need to rotate the tubing to close the circulating valve or reset the packer after the tubing has been displaced with alternative fluids. A straight spline option allows the valve to be opened and closed without string rotation. When the Model 2 RTTS circulating valve is used, the lower pin on the packer must be removed and replaced with the proper port mandrel.

OPERATION

The straight J-slot holds the circulating valve in the locked open position while it is run in the hole. If a closure occurs, the tubing is raised a few feet and turned to the left. This procedure returns the circulating valve to the open position. The circulating valve is left in the closed position during formation breakdown, squeeze cementing, or swabbing operations.

After the operation is complete, the pressure is equalized at the packer, and the tubing is lifted without rotation. The circulating valve is then in the open position.

FEATURES AND BENEFITS

- » Well control is maintained while monitoring pressure at the packer
- » Fluid can be circulated to kill the well
- » Can manipulate the valve between open and close without removing weight set on the packer
- » Maintains packer seal integrity during fluid circulation



HAL122270

Model 2 RTTS® Circulating Valve Specifications

| Size in. | Casing Weight lb/ft | Maximum OD in. (cm) | Minimum ID in. (cm) | Top Thread Connection (female) | Lower Thread Connection (male) |
|----------|---------------------|---------------------|---------------------|--------------------------------|--------------------------------|
| 8 5/8 | 24 - 49 | 6.50 (16.5) | 2.00 (5.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 9 5/8 | 40 - 71.8 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| | 29.3 - 53.5 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 10 3/4 | 32.75 - 81 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 11 3/4 | 38 - 71 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 13 3/8 | 48 - 98 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 16 | 75 - 109 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 18 5/8 | 78 - 118 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |
| 20 | 94 - 204 | 6.50 (16.5) | 2.40 (6.1) | 4 1/2 in. API IFTJ | 4 1/2 in. API IFTJ |

For more information, consult your local Halliburton representative.

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