



MODEL BKR MECHANICAL SETTING TOOL FOR “BKR” SLEEVE VALVE CEMENT RETAINERS

The Model BKR Mechanical Setting Tool is designed to run and set PARVEEN's Model BKR Sleeve Valve Cement Retainer. Easy to operate and low maintenance are evident in the design. The tool incorporates both a stinger seal and built-in snap latch allowing the tool to be latched into the retainer with set down weight and released with up-strain or right-hand rotation. This tool can be run time after time by simply moving the drive housing (slip nut on smaller sizes) into place and installing new shear screws. Disassembly is not required between runs on the same location, but is recommended upon returning to the shop. Tool sizes are available from 4 1/2 to 13 3/8 casing. Fewer moving parts and ease of operation make this tool a good addition to your line. The Model BKR-1 Mechanical Set Bridge Plug can be run with this tool as well by removing items 23 through 27 and replacing item 1 with item 30.

Installation of Retainer or Bridge Plug on the Model BKR Mechanical Setting Tool

- Place the top cone of the retainer or bridge plug in the vise and tighten
- Apply grease to the stinger section of the setting tool
- Stab the stinger section of the setting tool into the retainer or plug using a quick motion. If necessary place a block of wood across the end of the setting tool and strike with a sledge hammer. The stinger needs to go in until the latch threads snap into the retainer threads
- Place a pipe wrench on the drive housing (slip nut on smaller sizes) and turn to the left screwing the latch farther into the retainer. Stop when the holes in the latch align with the holes in the body of the retainer
- Install torque screws furnished with the retainer
- Align the holes in the drive housing (slip nut in smaller sizes) with the groove in the lower mandrel
- Install shear screws in setting tool
- Place the mechanical slips over the slip nut. With the drag housing butted against the stop ring, rotate the slip retaining sleeve down over the mechanical slips. Tighten the set screw in slip retaining sleeve

Running Instructions

- The tool should be run at a moderate speed avoiding sudden stops
- Avoid right-hand rotation transmitted to the setting tool. As a precaution, after every 10 stands the tubing or drill pipe can be rotated to the left by hand until torque is felt
- At desired setting depth, rotate tubing to the right a minimum of seven turns, releasing the slips onto the cone
- Pull into the tubing in one continuous pull. See chart below to view the recommended tension. It is important to calculate this tension through tubing stretch. Do not rely on weight indicators
- After desired pull is reached, lock down the break on rig to allow setting force to reach retainer. Hold the tension approximately five minutes, then slack off pipe and set approximately five to ten thousand pounds weight down insuring retainer or plug is securely set