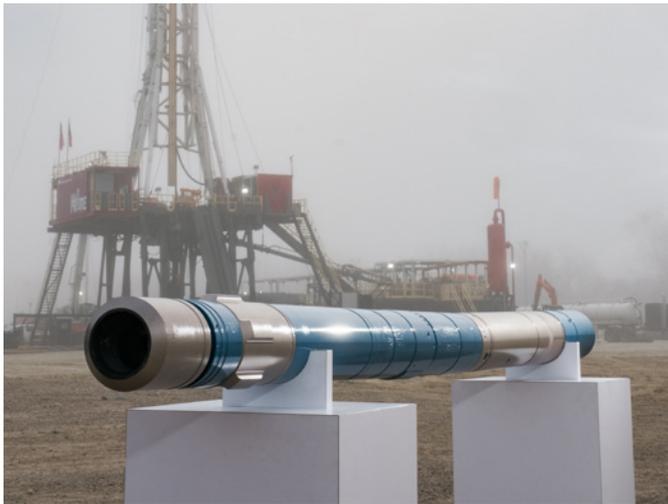


# 5¼ in. Vector Series 50 SelectShift Downhole Adj Motor

Developed specifically for our Vector™ drilling motors, the SelectShift™ downhole adjustable motor saves time and money by reducing the number trips, increasing operational flexibility and optimizing critical drilling parameters. This revolutionary, NOV patented technology allows rapid adjustment of the motor bend setting downhole. The ability to shift to straight or a low bent setting downhole allows for broader and improved operating parameters such as higher drill string rotation, thereby improving bit life, hole quality, and ROP. The Vector Series 50 SelectShift downhole adjustable motor provides industry leading torque output capability with 100% flow to the drill bit. Engineered to be at least 35% stronger than previous generations of motor technology, this motor can be run on our strongest ERT™ power sections.



## Technical Data

<b>Size</b>	5¼ in.
<b>Bit to center of stabilizer</b>	17 in.
<b>Motor stabilizer size</b>	Max ¼ in. UG
<b>Bit to bend</b>	53 in.
<b>Bit to stator</b>	110 in.
<b>WOB @ 100 RPM</b>	56,000 lbs
<b>WOB @ 300 RPM</b>	41,000 lbs
<b>Bottom connection</b>	3½ in. REG or NC-35



## Features

- Downhole adjustment of the motor bend setting
- Two configurations (straight to bent assembly and low bent to high bent assembly)
  - Two position options within each configuration
    - Straight to bent assembly - 0, 1.5, 1.65, 1.75, 1.83, 2.00, 2.12° bend options
    - Low bent to high bent assembly - 1.5, 1.65, 1.75, 1.83, 2.00, 2.12° bend options
- Hold mode in the straight or low bent setting
- Permanent signal mechanism with no bypass - ~150-250 psi
- High torque/high differential pressure design
- All-mechanical design
- Optimized for higher flow rates

## Benefits

- Significant time and money savings
  - Reduces the number of trips required
  - Optimizes critical drilling parameters while increasing operational flexibility
  - Significantly lowers rotary torque and WOB requirements when rotating in straight mode compared to bent mode
- Improves ROP
  - Increased rotary RPMs/bit RPM in the straight position and requires less sliding in the lateral and curve
  - Less side loading of the bit aids ROP by drilling a more in-gage hole
  - Extends well reach with the ability to turn more rotary RPM while drilling in straight mode
- Improve hole quality and limited sliding
  - Offers more bend when faster correction is needed in the lateral
  - Straight setting limits hole tortuosity and aids hole cleaning
- Simple to use and adjust via RPM changes and flow changes
- Hold mode allows the straight or low bent setting to be maintained during connections
- Bend setting confirmation via permanent pressure signal on surface

# The motor that is changing everything

The first of its kind, the Vector™ Series 50 SelectShift™ downhole adjustable motor allows downhole adjustment of the motor bend setting. With flexibility to rapidly shift between straight and bent settings, the motor offers higher torque output capability, 100% flow to the drill bit, and reduced bit-to-bend length, saving one to two trips per well.

Shift your course at [nov.com/selectshift](http://nov.com/selectshift)

