

# Vector Series 50 SelectShift Downhole Adjustable 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, patent-pending motor advancement allows rapid downhole adjustment of the motor bend setting, offering better hole quality, and increasing ROP throughout all sections of the well. The Vector Series 50 SelectShift downhole adjustable motor provides industry leading torque output capability, 100% flow to the drill bit and reduced bit-to-bend length.

## Features

- **Downhole adjustment of the motor bend setting**
- **Two configurations (straight-to-bent assembly and bent-to-bent assembly)**
  - Two position options within each configuration
    - Straight-to-bent assembly - 0 to 2.26 degrees max bend
    - Bent-to-bent assembly - up to 2.8 degrees max bend
- **Permanent signal mechanism with no bypass - ~150-200 psi**
- **High torque/high differential pressure design**
- **All-mechanical design**

## 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
- **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**
- **Bend setting confirmation via permanent pressure signal on surface**
- **MWD scribe stays the same**

## Technical Specifications

Size	7 1/8 in.
Bit to center of stabilizer	18.5 in.
Bit to bend	64 1/2 in.
Bit to stator	122 in.
WOB @ 100 RPM	115,000 lbs
Bottom connection	4 1/2 in. REG

