

Vector Series 36H Bearing Pack

The Vector™ Series 36H bearing pack technology from NOV is an advancement over our Series 36 bearing pack. The 36H provides high torque capability with 100% of the drilling fluid passing directly to the bit. The fully sealed bearing assembly extends motor bearing life and maximizes bit hydraulics.

The design incorporates the next generation universal joint design, featuring torque transferring faces and a driveshaft that is up to 25% larger in diameter. The larger driveshaft enables the motor to provide exceptional torque capability and reliability. Combined with 100% flow-through-the-bit technology, this allows for maximum drilling efficiency.



Robust driveshaft design

Technical Specifications

Size	5½ in.	6½ in.	6¾ in.	8 in.
Bit to center of stabilizer	20 in.	28 in.	24 in.	36 in.
Bit to bend (ADJ)	62.8 in.	n/a	72.2 in.	n/a
Bit to bend (FBH)	59.1 in.	66.4 in.	64.2 in.	73.3 in.
Bit to stator	82 in.	95 in.	94 in.	160.5 in.
Max WOB @ 100 RPM	53,000 lbf	90,000 lbf	98,000 lbf	128,000 lbf
Pull to re-run	144,000 lbf	263,000 lbf	277,000 lbf	367,000 lbf
Pull to yield	325,000 lbf	593,000 lbf	549,000 lbf	792,000 lbf
Bottom connection	3½ in. REG	4½ in. REG	4½ in. REG	6¾ in. REG



Features

- Sealed, oil-lubricated bearing assembly
- 100% flow to bit – no bypass
- Increased capacity on the bearing mandrel and patent pending driveshaft for higher torque power sections
- New seal boot and seal cap designs
- Pin-down bearing mandrel option available

Benefits

- 100% flow through the bit yields better bit life and hole cleaning
- Increased ROP
- Ideal for long lateral applications
- No signal loss when running MWD pulser below motor
- Better suited for fluids with higher solid content
- No flow restrictor wear

Applications

- Vertical drilling
- Curve drilling
- Lateral drilling
- Air drilling
- Rotary steerable motor assist