

# Vector Series 40 Bearing Pack

The Vector™ Series 40 bearing pack technology from NOV allows for higher weight-on-bit capacity, higher levels of radial loading, and the ability to run in high temperature applications.

The tool is designed with a mud-lubricated bearing stack composed of a series of high strength ball bearings that are radially supported over its entire length. Additionally, the patented twin torque nut separates the power section output torque from the compression of the bearings.

## Technical Data

Size	5 in.	7 in.	8 in.	9⅝ in.	11¼ in.
Bit to center of stabilizer	24 in.	25 in.	31 in.	38 in.	35 in.
Bit to bend (adj)	65.9 in.	79.9 in.	90.7 in.	106.9 in.	118 in.
Bit to bend (fixed)	57.1 in.	67.6 in.	77.3 in.	90.1 in.	105 in.
Bit to stator	84 in.	100 in.	112 in.	134 in.	147 in.
Pull to yield	432,000 lbf	599,000 lbf	792,000 lbf	1,873,000 lbf	2,143,000 lbf
Pull to re-run	159,000 lbf	305,000 lbf	434,000 lbf	692,000 lbf	870,000 lbf
Bottom connection	3½ in. REG	4½ in. REG	6⅝ in. REG	6⅝ in. REG 7⅝ in. REG	7⅝ in. REG 8⅝ in. REG



## Features

- Twin torque nut allows for higher torque power sections
- Mud-lubricated bearing technology ideal for a wider range of temperatures and mud types
- Tensile or compression load is supported by multiple rows of bi-directional angular contact bearings
- Provides extended operating hours
- Optional tile flow restrictors
- Pin-down bearing mandrel option available

## Benefits

- Allows for higher WOB and radial load capacity
- Versatile; compatible with multiple drilling fluids
- Ideal for higher bottom hole temperatures
- Ideal for remote locations; easily serviced
- Robust for rotary steerable motor assist applications

## Applications

- Hot hole
- Inverted mud systems
- Vertical drilling
- Curve drilling
- Lateral drilling
- Rotary steerable motor assist