

# MISSION™ Roughneck® Drilling Valves and Seats



**The Roughneck Valve and Seat line sets industry standards, meeting the demands of today's hostile drilling environments encountered by contractors worldwide.**

## **Features of NOV's Roughneck Valves and Seats include:**

- Drilling valve design is based on extreme pressure well service valve design.
- One-piece, tapered leg guide design allows greater flow area, reduced abrasion, and reduced fluid velocity.
- One-piece forged valve body for superior strength results in fewer replacements, longer run times, and reduced cost per pumping hour.

## **Features and benefits**

### **Design benefits**

- Precision machined components for a close tolerance fit
- Heat treated forged alloy steel valve body and valve seat for extended service life
- Ideal for higher horsepower pumps and pressures up to 7500 PSI

### **Added Value**

- Improves maintenance conditions in valve-over-valve fluid ends
- Uniform loading of the fluid end taper increases fluid end life
- Smooth flow increases valve life when pumping abrasive muds

### **Flexibility**

- Available in the standard or HP design
- Insert is available in various compounds designed to fit specific drilling conditions