

Roughneck™ White Lightning™ Bonded Full Open Drilling Valve

The Mission™ Roughneck™ White Lightning bonded valve sets a new industry standard to meet the challenges of today's vast array of hostile drilling conditions encountered by drilling contractors worldwide.

NOV Mission Roughneck White Lightning bonded valve features the following:

- Drilling valve design based on the field proven technology of the Mission Roughneck full open valve.
- The proprietary geometry of the valve allows movement in seat during operation which prevents mating of the contacting surfaces. This attribute slows fluid channel formation when solids embedment occurs for extended run times.
- Bonded design prevents fluid migration between the metal valve body and elastomer seal.



Roughneck White Lightning Valve

Part Number	Description
9700601 WL	WL White Lightning
9700601	Standard Urethane
9700601 BL	BL Black Lightning

FEATURES AND BENEFITS:

Design benefits

- Cutting edge design slows development of wear points on the valve and valve seat for extended service life
- Precision machined components for a close tolerance fit
- Ideal for use in higher horsepower pumps, with pressures to 7500 psi and in mud temperatures up to 230°F (110°C)

Added Value

- Consistent run times over 900 hours
- Uniform loading of the fluid end taper increasing fluid end life
- Design features of the valve extends the life of the valve and seat even in high solids environments

Flexibility

- The Bonded Roughneck Valve is also available in standard urethane good to 180°F (82°C).
- A Black Lightning™ version is available as well, which is suited for fluid temperatures up to 350°F (177°C) for applications such as geothermal drilling.

www.nov.com/mission

mission@nov.com

P.O. Box 4638
Houston, Texas 77210-4638
United States
Toll Free: 800 800 4638
Fax: 281 517 0340

