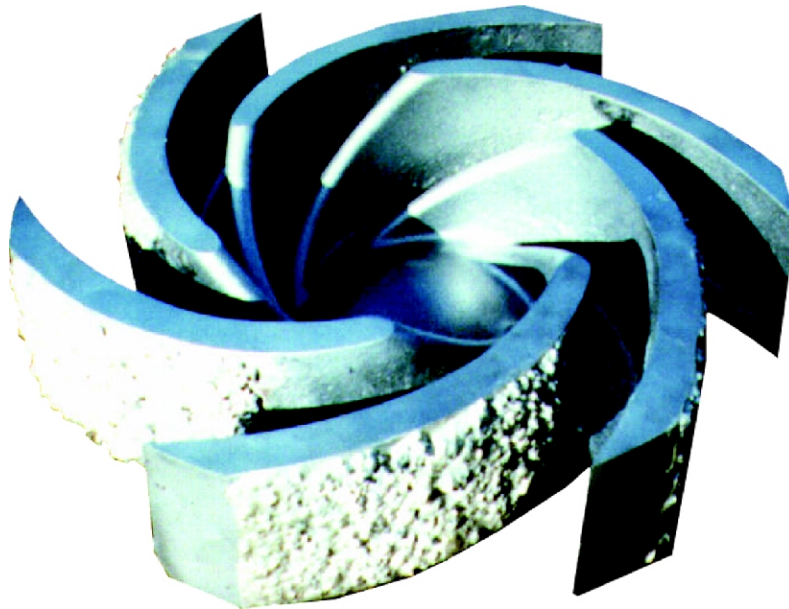


Supreme Shear Pump

National Oilwell Varco's Mission™ Supreme Shear centrifugal pump incorporates a unique impeller that has the leading vane surface mechanically altered by a tungsten carbide coating. This surface feature creates a high wear resistant surface and imparts a mechanical shearing action to drilled solids due to the non-uniform surface texture. In addition to the mechanical shearing, this impeller imparts a liquid shearing action when utilized at the proper operating parameters as outlined below.

The Mission™ Supreme Shear centrifugal pump utilizes a modified 6x5x14 2500 Supreme pump with an 11" impeller operating at 1750 rpm. Operating under these conditions results in maximum shearing efficiency when the flow is restricted to 600 gpm. Fluid weight should be maintained between 11 to 13 ppg. A fluid weight below 11 ppg reduces the effectiveness of the liquid shear, and fluid weights above 13 ppg can become too viscous to pump as desired.



Supreme Shear Pump

Technical Specifications

Pump type	Supreme Shear Pump
Size	6x5x14
Impeller	11" modified
Motor	75 hp, 1800 rpm
Flow	600 gpm (restricted)

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 **NATIONAL OILWELL VARCO**

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