Welltec®

Datasheet: Well Miller® 314 CVF
Continuous Variable Force

Well Miller® CVF – Continuous Variable Force – is a comprehensive and dynamic system engineered to fully optimize hardware milling operations. Utilizing multiple parameters measured throughout the milling process in real-time (including direct measurements of weight on bit, and rate of penetration), the CVF system produces levels of control, precision, and accuracy inspired by our manufacturing expertise, blurring the lines between milling and downhole CNC machining.

The CVF system operates under full surface control, administering dynamic weight on bit, with up to 5,000 lbs of force available in increments of 100 lbs. Its detailed Surface Readout (SRO) data facilitates a highly informed decision-making process to enable fully optimized operations – it can also be programmed to adjust automatically by setting up the automation sequence, which can still be adjusted while running. Essentially, Well Miller CVF is an integration of key features and benefits from Welltec's proven mechanical and clean-out services, further enhancing the capabiliites of a hardware milling portfolio with an already extensive track record.

Applications	Features	Benefits
• Nipple profile milling	• Passive fail-safe system	• Various bits based on objective
• Access through failed valves (e.g. isolation/gate)	• Surface read-out compatible	• Large range of IDs accessible
• Enlargement of buckled tubing	• Modular and configurable	• No additional fluids required
• Plug removal	• Universal: operates on any e-line via DC	• Can be utilized on all downhole hardware materials
• Glass plug milling	• NACE compliant	• Accurate depth control

Specifications*	Imperial	Metric
• Length	• 28 ft	• 8.5 m
• Running OD nominal	• 3.25"	• 83 mm
• Weight in air	• 430 lbs	• 195 Kg
• Minimum completion ID	• 3.37"	• 85.5 mm
• Maximum well pressure	• 20,000 psi	• 1,400 bar
• Maximum well temperature	• 302 F	• 150 °C
• Tensile strength	• 94,000 lbs	• 42,500 Kg
• Compressive strength	• 138,700 lbs	• 62,900 Kg

* Dependent upon configuration