

ACT™ Articulation Compensator Tool

Volant’s ACT™ tool is designed for casing drilling or running with top drive equipped rigs to eliminate well center alignment problems. This tool mechanically articulates to align casing or drill pipe with well center.

The ACT tool is fully compatible with Volant’s CRTi® and CRTe® casing running tools.

This patented architecture uses a pneumatic spring and viscous damping system to provide maximum passive articulation and compensation over the full range of compensated loads.

Base Tool Characteristics

| | | |
|---|--------------|---------------------|
| Hoist Capacity ¹ | ton (tonne) | 662 (600) |
| Torque Capacity | ft.lbs (N.m) | 85,000 (115,200) |
| Tool Weight | lbs (kg) | 1,700 (780) |
| Maximum Articulation ² | in (mm) | 6.0 (150) |
| Maximum Fully Compensated Load ³ | lbs (kN) | 11,000 (48.9) |
| Maximum Compensated Charge Pressure | psi (MPa) | 800 (5.5) |
| Maximum Circulation Pressure | psi (MPa) | 7,500 (51.7) |
| Base Tool Length ⁴ | in (mm) | 59.8 (1,520) |
| Tool Stroke | in (mm) | 6.0 (150) |
| Maximum Tool Diameter | in (mm) | 16.0 (410) |
| Through Hole | in (mm) | 2.0 (50) |
| Maximum Compressive Load | ton (tonne) | 270 (244) |
| Tool Joint | | 6.63 REG Box/Box |

Tool Configuration
Full Articulation and Compensation



1. Tool hoist and torque ratings are based on API Specification 8C, and are valid for any combination of torque and hoist. The rates capacity does not take into account any limitations that may result from the tool joint connection.
2. Maximum articulation is defined as the maximum parallel axis offset, and can be varied to suit customer requirements by varying tool length and articulation angle.
3. Compensated load is the combined weight of all pipe and equipment supported by the tool.
4. Base tool length is representative of a fully collapsed tool. The tool stroke will be added to this length when extended. This does not include the length of the crossover or saver sub, which is recommended for use with the ACT-3.

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