



# Articulation Compensator Tool (ACT-3)

## Articulation Compensator Tool (ACT)

Volant's ACT 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 is fully compatible with Volant's Casing Running Tool with internal grip (CRTI™) and external grip (CRTe™).

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.

### Tool Model: ACT-3 Specification Summary

#### Base Tool Characteristics

Tool Weight	lbs	1,700
Maximum Articulation <sup>1</sup>	in	6.0
Maximum Fully Compensated Load <sup>2</sup>	lbs	11,000
Maximum Compensated Charge Press	psi	800
Maximum Circulation Pressure	psi	7,500
Base Tool Length <sup>3</sup>	in	59.8
Tool Stroke	in	6.0
Maximum Tool Diameter	in	16.0
Through Hole	in	2.0
Maximum Compressive Load	ton	270
Tool Joint		6-5/8 REG

**Tool Configuration**  
Full Articulation  
and Compensation



Main Body Part No.	End Flange Part No.	Torque Capacity (ft-lbs)	Hoist Capacity <sup>4</sup> (tons)	Tool Joint
81096	81097	50,000	350	Box/Pin
81247	81248	85,000	662	Box/Box

- 1 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.
- 2 Compensated load is the combined weight of all pipe and equipment supported by the tool.
- 3 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.
- 4 Tool hoist and torque ratings are based on API Specification 8C, and are valid for any combination of torque and hoist. The rated capacity does not take into account any limitations that may result from the tool joint connection.

**Give us a problem. Or just drop us a line if you want to know more.**

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