



Element Oilfield Vibration Reduction Tool (EOT-VRT) Specifications

The Element Oilfield Vibration Reduction Tool (**EOT-VRD**) reduces vibration and harmonics in the drill string and other working components, while reducing bit bounce and increasing both bit life and increased penetration rates.

The **EOT-VRD** is designed to operate in all types of applications and drill string designs, and is oil lubricated reducing mechanical wear. A unique pressure compensation chamber allows for extended life in all drilling applications.

The **EOT-VRD** can be run in string and near-bit locations, effectively operating in both tension or compression, and can be run with more than one tool in the hole isolating areas where vibrations can cause premature failures to high cost components.



Tool O.D. in. (mm)	Tool I.D. in. (mm)	Tool Length ft-in. (m)	Weight lb (Kg)	Stroke Closed in. (mm)	Stroke Open in. (mm)	Pump Open Area in ² (cm ²)	Max Torque ft-lb (N-m)
3 1/2" (89)	1" (25)	8'-0" (2.43)	240 (109)	4" (101)	2" (50.8)	5.9 (38.1)	10,000 (14,000)
4 3/4" (121)	2.25" (57)	9' - 1" (2.77)	425 (193)	4" (101)	2" (50.8)	11.0 (71.26)	15,000 (20,340)
6 1/2" (165)	2.375" (70)	9' - 6" (2.90)	870 (395)	4" (101)	2" (50.8)	17.7 (114.33)	32,000 (43,390)
8" (203)	2.81" (71)	11' - 3" (3.40)	1475 (669)	4" (101)	2" (50.8)	30.7 (197.93)	55,000 (74,580)
9.50" (229)	2.82" (71)	12'.5" (3.80)	1900 (850)	4" (101)	2" (50.8)	38.5 (266)	93,000 (126,000)
11 1/4" (286)	2.82" (71)	12'.5" (3.80)	3200 (1425)	4" (101)	2" (50.8)	38.5 (266)	160,000 (295,000)
12" (305)	3.00" (76)	12.0" (3.60)	4000 (1817)	4" (101)	2" (50.8)	63.3 (41,000)	345,400 (480,000)