



VECTOR TORQUE & ANGLE PUMP

The HYTORC VECTOR TORQUE & ANGLE module makes the world's fastest fully-automatic hydraulic power system more versatile than ever. With its 4-stage high-flow design and gauge-free operation, simply select the HYTORC tool in use and input the desired angle; a single trigger pull will accurately and reliably execute precise Turn-of-Nut tightening. By eliminating the potential for human error, the pump greatly increases productivity; the available documentation feature allows complete job data capture for the entire bolting operation.

TORQUE & ANGLE



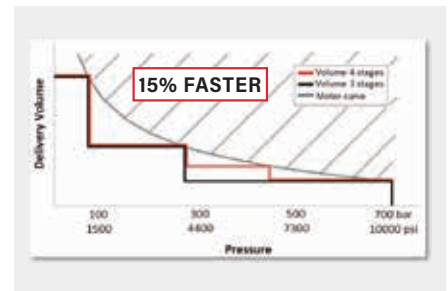
The VECTOR's modular design allows it to be upgraded to advanced Torque-and-Angle operation, providing accurate real-time degree of rotation measurement, taking the guess work out of the job.

BOLTING DOCUMENTATION

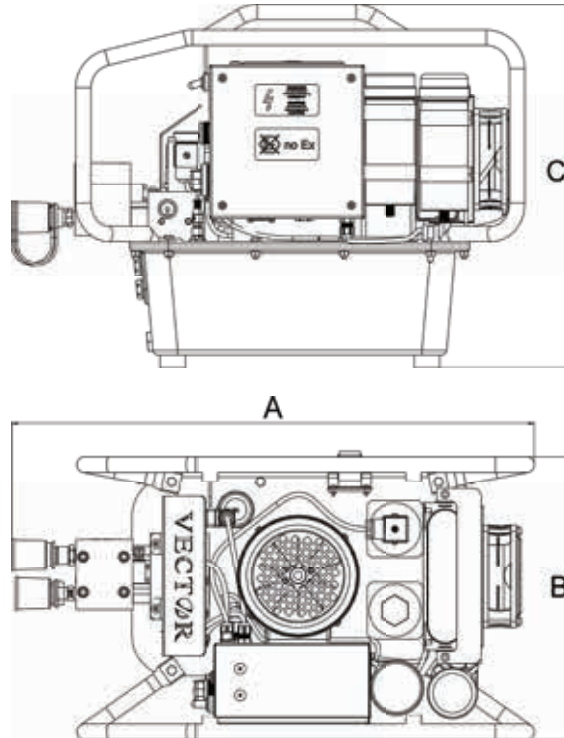


The VECTOR pump is capable of being upgraded with a documentation feature that allows all bolting data to be recorded. Easily transfer the data via USB to a computer. A report is created and five file types (.txt, .html, .csv, .json, .rpe) are sent as a single package. Keep accurate records for better quality assurance.

FAST 4-STAGE PUMP DESIGN



By adding a 4th pressure stage in the 4,000 to 7,000 psi range the VECTOR pump increases the flow of oil to the tool. This allows the tool to cycle faster, resulting in a 15% time savings over old 3-stage pumps.



LEGEND: A = 21.0" (520 MM) B = 12.8" (326 MM) C = 16.8" (426 MM)

PUMP SPECIFICATIONS AND FEATURES

Power	115V: 1Ph 90-125 / 60Hz 230V: 1Ph 200-230V / 50+60Hz 400V: 3Ph 400-460		
Data Recording	Optional		
Gauge	Digital		
Reservoir Capacity	2 gals / 7.5 l		
Stages	4		
Weight	79 lbs. / 36 kg		
15' Remote Control: Yes	Oil Cooler: Yes		
Ports	1		
Maximum Oil Flow Rate 1,000 PSI 70 bar	HY-V115 (60 Hz) 610 cu.in./min. 10.0 l/min.	HY-V230 (50Hz) 549 cu.in./min. 9.0 l/min.	HY-V400 549 cu.in./min. 9.0 l/min.
Middle Oil Flow Rate 3,900 PSI 270 bar	60 Hz 171 cu.in./min. 2.8 l/min.	50 Hz 147 cu.in./min. 2.4 l/min.	3Ph 400-460 147 cu.in./min. 2.4 l/min.
Middle + Oil Flow Rate 6,300 PSI 440 bar	60 Hz 110 cu.in./min. 1.8 l/min.	50 Hz 85 cu.in./min. 1.4 l/min.	3Ph 400-460 85 cu.in./min. 1.4 l/min.
High Oil Flow Rate 10,000 PSI 700 bar	60 Hz 67 cu.in./min. 1.1 l/min.	50 Hz 55 cu.in./min. 0.9 l/min.	3Ph 400-460 55 cu.in./min. 0.9 l/min.

COMPLETE KIT CONTENTS

- VECTOR Pump
- 15' Twin Line Hose
- 2 gallons / 7.5 l of oil

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Headquarters:
333 Route 17 N., Mahwah, NJ 07430
+1-201-512-9500

Email:
info@hytorc.com

Phone:
1-800-FOR-HYTORC

Online:
hytorc.com