



## VECTOR 4-STAGE PUMP

The HYTORC VECTOR pump stands alone as the fastest fully-automatic Hydraulic Power System thanks to its 4-stage high-flow design. Gauge-free operation allows the operator to simply enter the desired torque and HYTORC tool being used, eliminating the need for separate torque charts. The VECTOR's modular design makes it fully upgradeable - start with the manual, and upgrade to fully automatic documentation without buying a new pump. The fully automatic mode allows the operator to simply push the button and let the pump do all the work.

### MANUAL OR FULLY AUTOMATIC



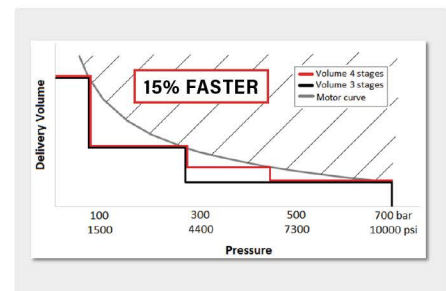
The HYTORC VECTOR is available in both manual and fully automatic. With its modular design the manual version can be upgraded to fully automatic as needed. The available documentation feature allows complete job data capture for the entire bolting operation.

### 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.

# HYTORC GLOBAL-READY VECTOR PUMPS ARE READY TO WORK ANYWHERE IN THE WORLD.

- 9 PRE-LOADED LANGUAGES
- FT/LBS, NM, OR KPM
- PSI OR BAR
- F, C OR K TEMPERATURE READOUTS
- 115V, 230V OR 400V



## VECTOR PUMP PROTECTIVE CASE



The VECTOR Case helps protect your investment.



## VECTOR PUMP SCANNER



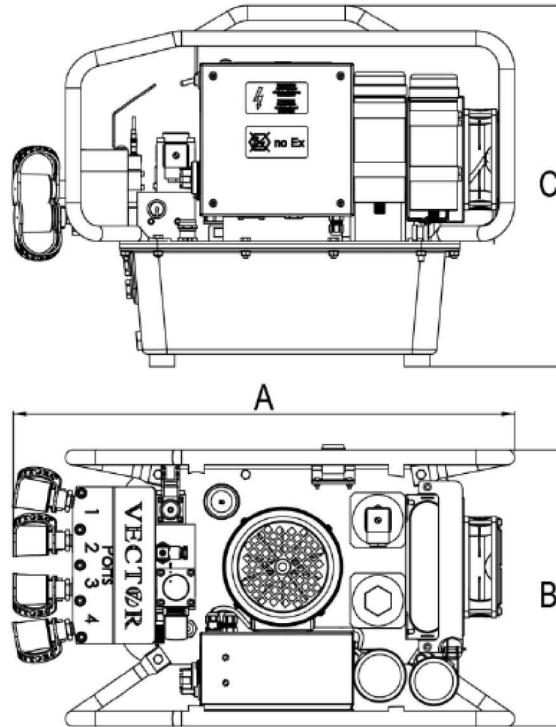
Enter job data quickly for fast setup.



**DESIGNED TO GROW WITH YOUR BUSINESS - UPGRADE, DON'T REPLACE**

Upgradable Base Model		4 Port Manual	1 Port Fully Automatic	4 Port Fully Automatic	Documentation (Add Software)	Torque & Angle	Bluetooth*
1 Port Manual VECTOR-T1	➔	✓ VECTOR-T4	✓ VECTOR-FA1	✓ VECTOR-FA4	✓ VECTOR-FA1-DOC VECTOR-FA4-DOC	✓ VECTOR-FA1-TA	✓ VECTOR-FA1-DOC-BLU VECTOR-FA4-DOC-BLU
4 Port Manual VECTOR-T4	➔		✓ VECTOR-FA1	✓ VECTOR-FA4	✓ VECTOR-FA4-DOC		✓ VECTOR-FA4-DOC-BLU
1 Port Fully Automatic VECTOR-FA1	➔			✓ VECTOR-FA4	✓ VECTOR-FA4-DOC	✓ VECTOR-FA1-TA	✓ VECTOR-FA1-DOC-BLU VECTOR-FA4-DOC-BLU
4 Port Fully Automatic VECTOR-FA4	➔				✓ VECTOR-FA4-DOC	✓	✓ VECTOR-FA4-DOC-BLU

\*Denotes future update.



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

**PUMP SPECIFICATIONS AND FEATURES**

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