

PROJECT: _____	UNIT TAG: _____	QUANTITY: _____
REPRESENTATIVE: _____	TYPE OF SERVICE: _____	DATE: _____
ENGINEER: _____	SUBMITTED BY: _____	DATE: _____
CONTRACTOR: _____	APPROVED BY: _____	DATE: _____
	ORDER NO.: _____	DATE: _____

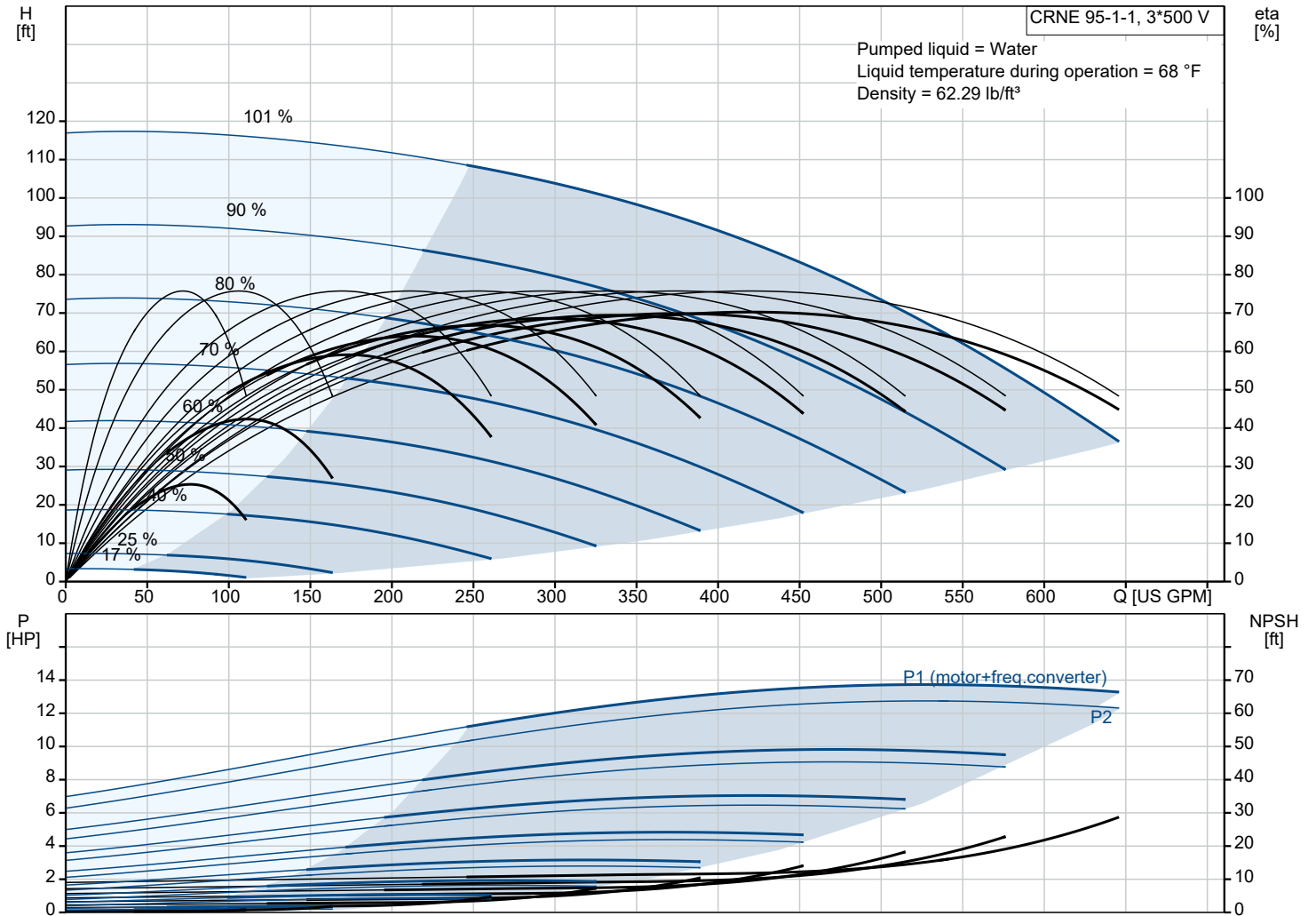


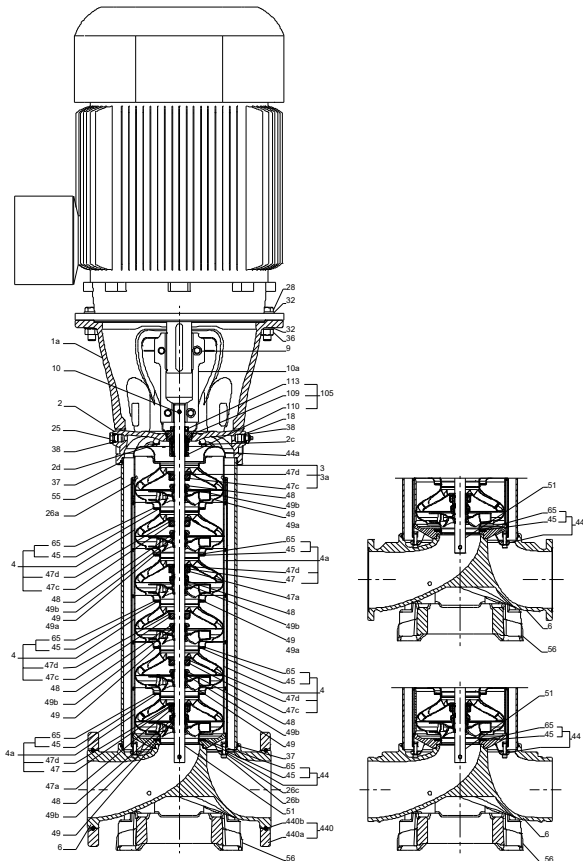
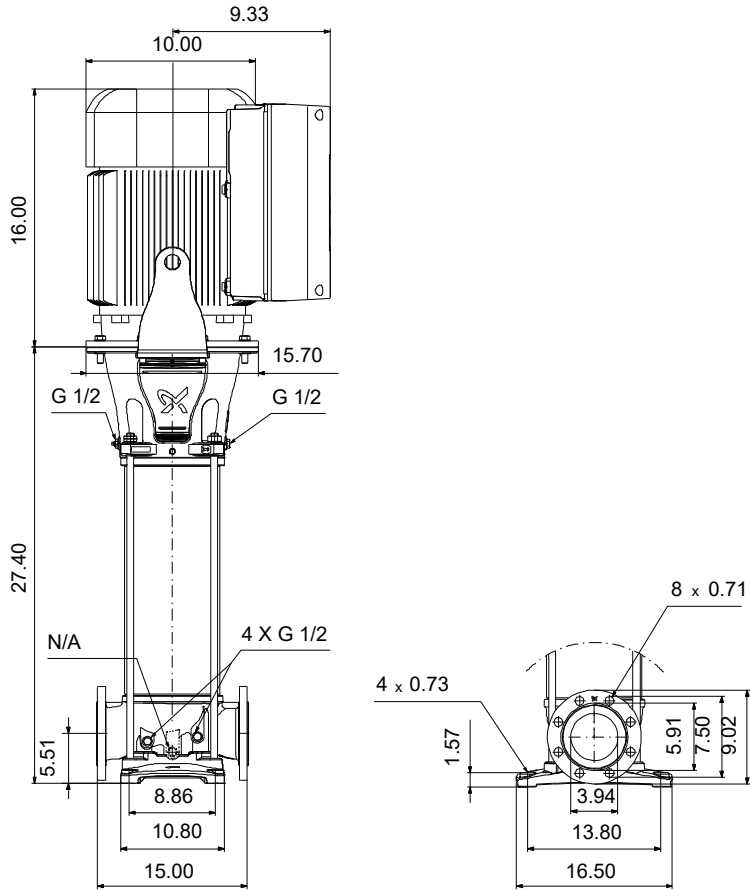
## CRNE 95-1-1 N-G-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Liquid temperature range:	-4 .. 248 °F	Rated power - P2:	15 HP
Temperature:	68 °F	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 V
Specific Gravity:	1.000	Shaft seal:	HQQE	Mains frequency:	60 Hz
		Product number:	99266501	Enclosure class:	IP55
				Insulation class:	F
				Motor protection:	ELEC
				Motor type:	160H
				Eta 1/1:	93.2 %





**Materials:**

- Base: Stainless steel
- Base: EN 1.4408
- Base: ASTM A351 CF8M
- Impeller: Stainless steel
- Impeller: AISI 316
- Impeller: EN 1.4401
- Material code: A
- Code for rubber: E

Qty.	Description
1	<p data-bbox="124 85 454 118"><b>CRNE 95-1-1 N-G-A-E-HQQE</b></p> <p data-bbox="124 118 391 141">Product No.: <a href="#">99266501</a></p> <p data-bbox="124 174 1520 253">Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. The Grundfos cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via ANSI flanges.</p> <p data-bbox="124 264 1053 297">The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor.</p> <p data-bbox="124 297 941 320">The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.</p> <p data-bbox="124 320 1520 376">The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.</p> <p data-bbox="124 376 1520 432">The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:</p> <ul data-bbox="164 443 1520 824" style="list-style-type: none"> <li>• two dedicated digital inputs</li> <li>• three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs</li> <li>• 5 V voltage supply to potentiometer and sensor</li> <li>• one analog output, 0-10 V, 0(4)-20 mA</li> <li>• two configurable digital inputs or open-collector outputs</li> <li>• two Pt100/Pt1000 inputs</li> <li>• LiqTec, dry-running protection sensor input</li> <li>• Grundfos Digital Sensor input and output</li> <li>• 24 V voltage supply for sensors</li> <li>• two signal-relay outputs (potential-free contacts)</li> <li>• GENIbus connection</li> <li>• interface for Grundfos CIM fieldbus module.</li> </ul> <p data-bbox="124 857 199 880">Liquid:</p> <p data-bbox="124 880 558 913">Pumped liquid: Water</p> <p data-bbox="124 913 614 947">Liquid temperature range: -4 .. 248 °F</p> <p data-bbox="124 947 550 981">Selected liquid temperature: 68 °F</p> <p data-bbox="124 981 606 1014">Density: 62.29 lb/ft<sup>3</sup></p> <p data-bbox="124 1037 239 1059">Technical:</p> <p data-bbox="124 1059 742 1093">Pump speed on which pump data are based: 3538 rpm</p> <p data-bbox="124 1093 630 1126">Rated flow: 500 US GPM</p> <p data-bbox="124 1126 574 1160">Rated head: 76.78 ft</p> <p data-bbox="124 1160 566 1193">Actual impeller diameter: 5.63 in</p> <p data-bbox="124 1193 574 1227">Pump orientation: Vertical</p> <p data-bbox="124 1227 558 1261">Shaft seal arrangement: Single</p> <p data-bbox="124 1261 566 1294">Code for shaft seal: HQQE</p> <p data-bbox="124 1294 526 1328">Approvals: CE</p> <p data-bbox="124 1328 805 1361">Approvals for drinking water: NSF/ANSI 61, NSF/ANSI 372</p> <p data-bbox="124 1361 686 1395">Curve tolerance: ISO9906:2012 3B</p> <p data-bbox="124 1417 231 1440">Materials:</p> <p data-bbox="124 1440 694 1507">Base: Stainless steel EN 1.4408 ASTM A351 CF8M</p> <p data-bbox="124 1507 646 1597">Impeller: Stainless steel EN 1.4401 AISI 316</p> <p data-bbox="124 1597 582 1630">Bearing: WC/WC</p> <p data-bbox="124 1630 574 1664">Support bearing: Graflon</p> <p data-bbox="124 1664 710 1686">Material certified according to: European standards</p> <p data-bbox="124 1709 247 1731">Installation:</p> <p data-bbox="124 1731 566 1765">t max amb: 122 °F</p> <p data-bbox="124 1765 606 1798">Maximum operating pressure: 232.06 psi</p> <p data-bbox="124 1798 662 1832">Max pressure at stated temp: 232 psi / 250 °F</p> <p data-bbox="124 1832 550 1865">Type of connection: ANSI</p> <p data-bbox="124 1865 558 1899">Size of inlet connection: 4 inch</p> <p data-bbox="124 1899 558 1933">Size of outlet connection: 4 inch</p> <p data-bbox="124 1933 558 1966">Pressure rating for connection: 150 lb</p> <p data-bbox="124 1966 566 2000">Flange size for motor: 254TC</p> <p data-bbox="124 2022 287 2045">Electrical data:</p> <p data-bbox="124 2045 566 2078">Motor standard: NEMA</p> <p data-bbox="124 2078 550 2112">Motor type: 160H</p> <p data-bbox="124 2112 526 2145">IE Efficiency class: IE5</p> <p data-bbox="124 2145 558 2179">Rated power - P2: 15 HP</p>

Qty.	Description
	Power (P2) required by pump: 15 HP Mains frequency: 60 Hz Rated voltage: 3 x 440-480 V Service factor: 1.15 Rated current: 17.9-16.6 A Cos phi - power factor: 0.92-0.91 Rated speed: 360-4000 rpm Efficiency: 93.2% Motor efficiency at full load: 93.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971062  Controls: Frequency converter: Built-in Pressure sensor: Y  Others: DOE Pump Energy Index VL: 0.42 Net weight: 375 lb Gross weight: 635 lb Shipping volume: 44.2 ft <sup>3</sup> Thrust handling device: N

# 99266501 CRNE 95-1-1 N-G-A-E-HQQE 60 Hz



Note! All units are in [in] unless others are stated.