Submittal Data

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

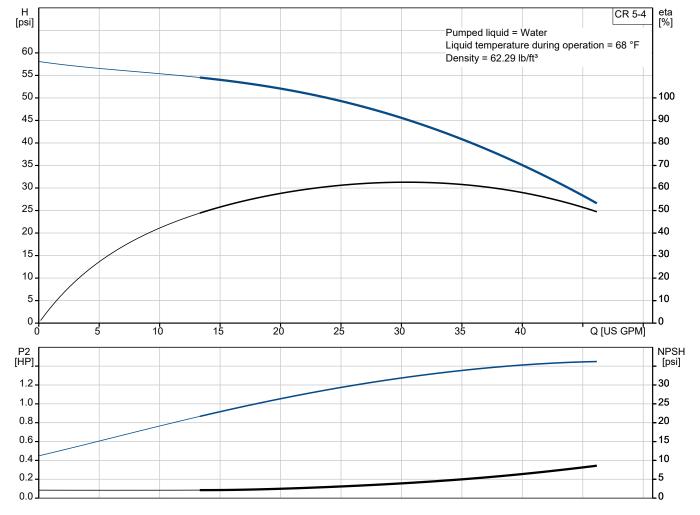


Note! Product picture may differ from actual product

CR 5-4 A-B-A-E-HQQE

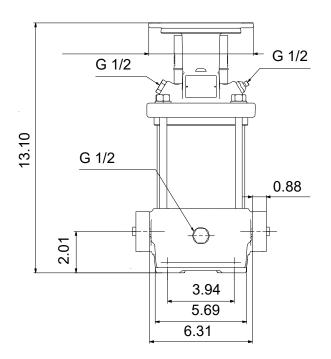
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

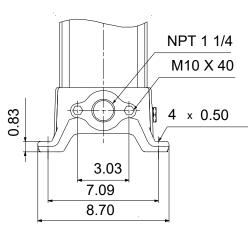
| Conditions of Service | Pump Data | Motor Data | |
|--|---|------------------|------|
| Liquid: Water Temperature: 68 °F Specific Gravity: 1.000 | Max pressure at stated temp: 232 psi / 250 °F Liquid temperature range: -4 248 °F Shaft seal: HQQE Product number: 96084083 | Mains frequency: | 60 H |



1

Submittal Data





Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stai

Stainless steel

AISI 304

EN 1.4301

Material code: A
Code for rubber: E



Date: 28/05/2025

Qty. | Description

1 | CR 5-4 A-B-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96084083
Pump without motor

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A 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 oval flanges with internal NPT threads.

Further product details

Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process.

CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

An integral part of the process is a pretreatment.

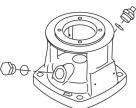
The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

The colour code for the finished product is NCS 9000/RAL 9005.

Pump

The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system.

This seal type is assembled in a cartridge unit which makes replacement safe and easy.

Due to the balancing, this seal type is suitable for high-pressure applications.

The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



Date: 28/05/2025

Qty. | Description

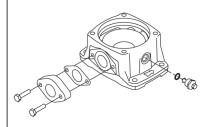
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The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The oval flanges are bolted to the base. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate.



Motor

The pump is sold without motor.

Technical data

Liquid:

Pumped liquid: Water
Liquid temperature range: -4 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical

Pump speed on which pump data are based: 3466 rpm

Rated flow: 30.4 US GPM Rated head: 41.03 psi Actual impeller diameter: 2.88 in Pump orientation: Vertical Shaft seal arrangement: Single **HQQE** Primary shaft seal: Code for shaft seal: **HQQE** Approvals: CE

Approvals for drinking water: NSF/ANSI 61
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B Stainless steel

Impeller: Stainless stee EN 1.4301

AISI 304

Bearing: SIC

Installation:



Date: 28/05/2025

Qty. | Description

1 Maximum operating pressure: 232.06 psi Max pressure at stated temp: 232 psi / 250 °F

232 psi / -4 °F

Type of connection:

Size of inlet connection:

Size of outlet connection:

Pressure rating for connection:

Flange size for motor:

Oval / NPT(F)

1 1/4 inch

PN 16

56C

Electrical data:

Motor standard: NEMA
Power (P2) required by pump: 1.5 HP

Controls:

Frequency converter: None

Others:

DOE Pump Energy Index CL: 0.89

Net weight: 32.4 lb

Gross weight: 43.4 lb

Shipping volume: 4.94 ft³

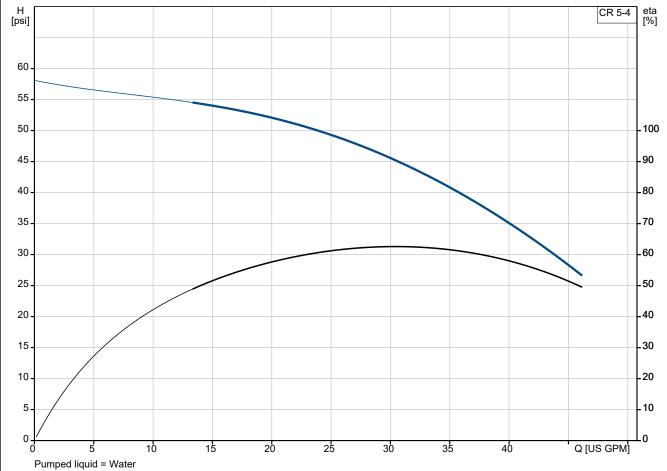
Country of origin: US

Custom tariff no.: 8413.70.2040

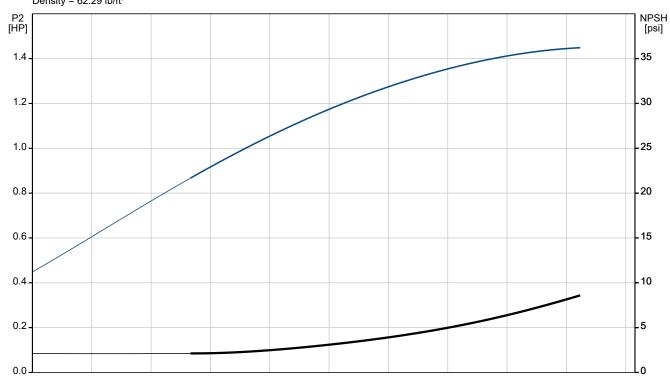


Date: 28/05/2025

96084083 CR 5-4 A-B-A-E-HQQE 60 Hz



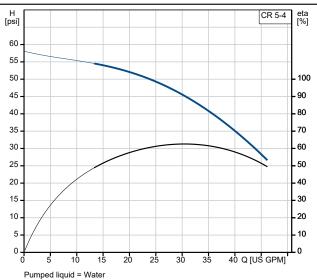
Liquid temperature during operation = 68 °F Density = 62.29 lb/ft³



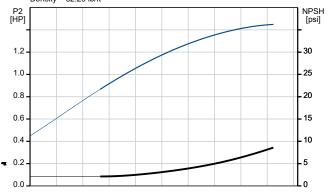


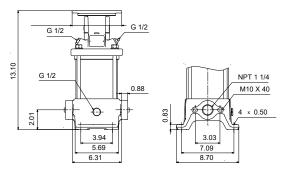
Date: 28/05/2025

| Description | Value |
|--|---------------------|
| General information: | |
| Product name: | CR 5-4 A-B-A-E-HQQE |
| | |
| Product No: | 96084083 |
| EAN number: | 5700395189216 |
| Technical: | |
| Pump speed on which pump data are based: | 3466 rpm |
| Rated flow: | 30.4 US GPM |
| Rated head: | 41.03 psi |
| Maximum head: | 59.21 psi |
| Actual impeller diameter: | 2.88 in |
| Stages: | 4 |
| Impellers: | 4 |
| Number of reduced-diameter impellers: | 0 |
| Low NPSH: | N |
| Pump orientation: | Vertical |
| Shaft seal arrangement: | Single |
| Primary shaft seal: | HQQE |
| Code for shaft seal: | HQQE |
| Approvals: | CE |
| Approvals for drinking water: | NSF/ANSI 61 |
| Curve tolerance: | ISO9906:2012 3B |
| Pump version: | A |
| Model: | Α |
| Materials: | |
| Base: | Cast iron |
| | EN 1561 EN-GJL-200 |
| | ASTM A48-25B |
| Impeller: | Stainless steel |
| | EN 1.4301 |
| | AISI 304 |
| Material code: | Α |
| Code for rubber: | E |
| Bearing: | SIC |
| Installation: | |
| Maximum operating pressure: | 232.06 psi |
| Max pressure at stated temp: | 232 psi / 250 °F |
| | 232 psi / -4 °F |
| Type of connection: | Oval / NPT(F) |
| Size of inlet connection: | 1 1/4 inch |
| Size of outlet connection: | 1 1/4 inch |
| Pressure rating for connection: | PN 16 |
| Flange size for motor: | 56C |
| Connect code: | В |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -4 248 °F |
| Selected liquid temperature: | 68 °F |
| Density: | 62.29 lb/ft³ |
| Electrical data: | |
| Motor standard: | NEMA |
| Power (P2) required by pump: | 1.5 HP |
| Controls: | 1.0111 |
| Frequency converter: | None |
| Others: | NOTIC |
| | 0.80 |
| DOE Pump Energy Index CL: Net weight: | 0.89 |
| INCL WEIGHT | 32.4 lb |



Pumped liquid = Water Liquid temperature during operation = 68 °F Density = 62.29 lb/ft³







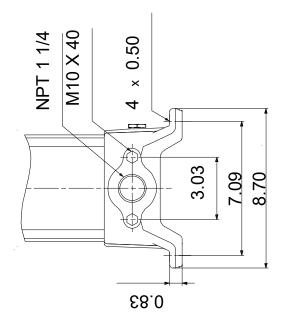
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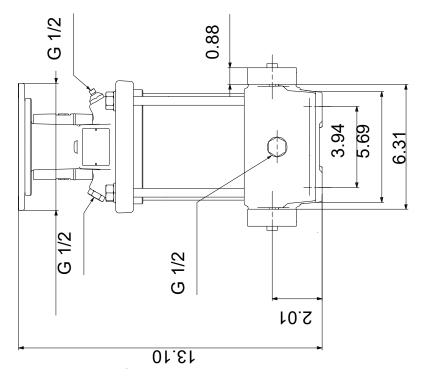
| Description | Value |
|--------------------|----------------------|
| Gross weight: | 43.4 lb |
| Shipping volume: | 4.94 ft ³ |
| Country of origin: | US |
| Custom tariff no.: | 8413.70.2040 |



Date: 28/05/2025

96084083 CR 5-4 A-B-A-E-HQQE 60 Hz





Note! All units are in [in] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.