

Submittal Data

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

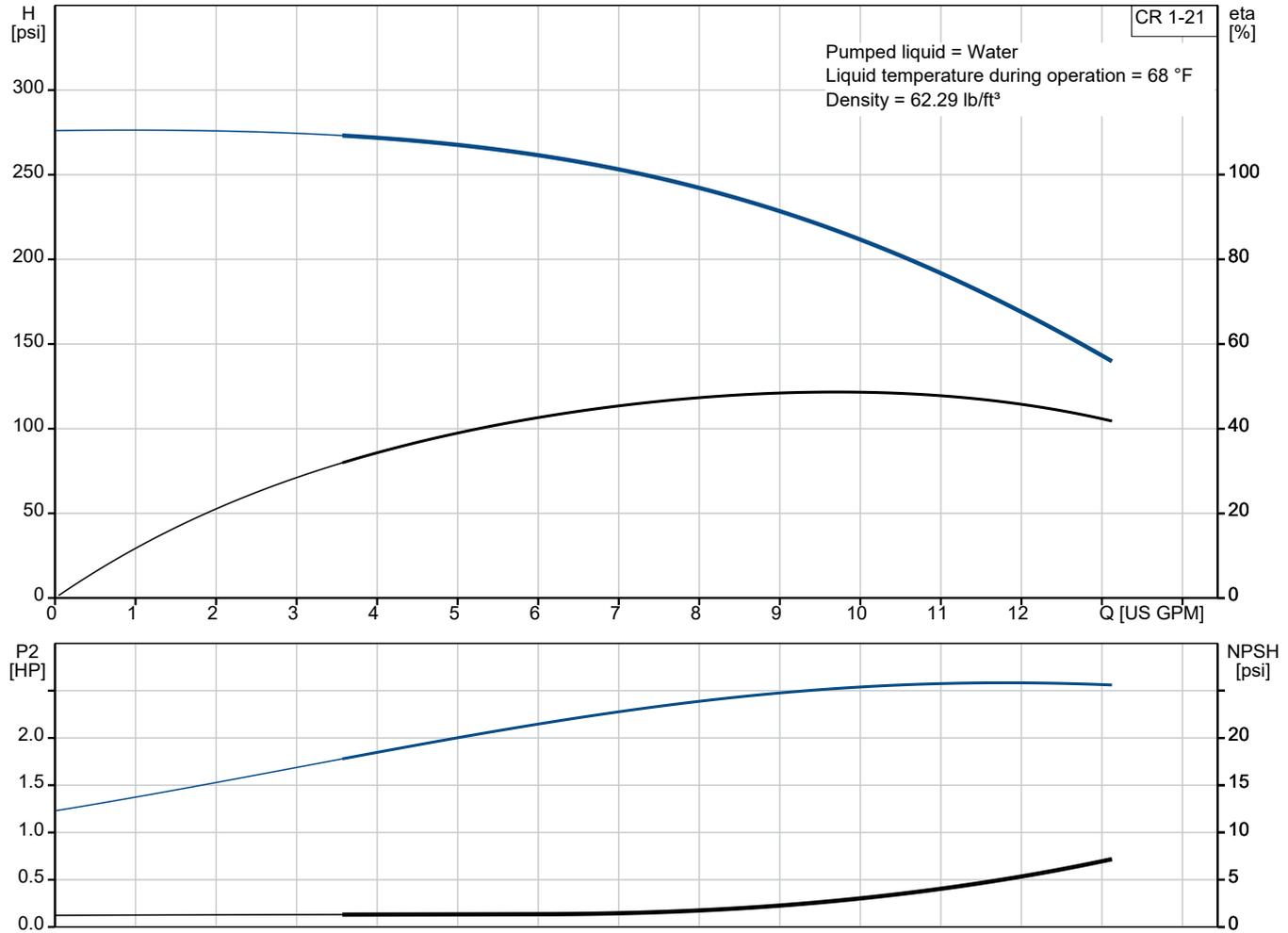


CR 1-21 A-FGJ-A-E-HQQE

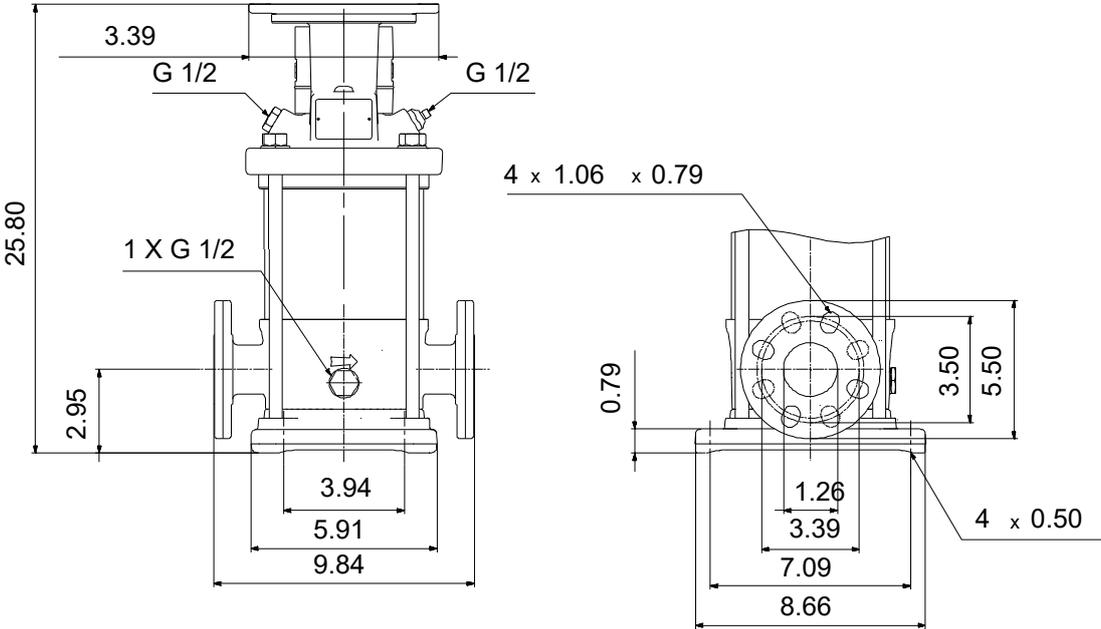
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

| Conditions of Service | Pump Data | Motor Data |
|-------------------------|---|------------------------|
| Liquid: Water | Max pressure at stated temp: 363 psi / 250 °F | Mains frequency: 60 Hz |
| Temperature: 68 °F | Liquid temperature range: -4 .. 248 °F | |
| Specific Gravity: 1.000 | Shaft seal: HQQE | |
| | Product number: 96082106 | |



Submittal Data



Materials:
 Base: Cast iron
 EN 1561 EN-GJL-200
 ASTM A48-25B
 Impeller: Stainless steel
 AISI 304
 EN 1.4301
 Material code: A
 Code for rubber: E

Qty. Description

1 CR 1-21 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: [96082106](#)

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 combined DIN-ANSI-JIS flanges.

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.

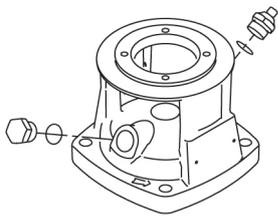
The entire process consists of these elements:

- 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)

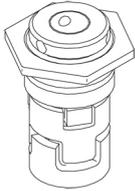
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

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

Qty. Description

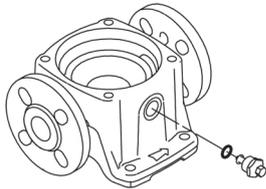
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The shaft seal is screwed into the pump head.

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 flanges and base are cast in one piece. 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: 3461 rpm
 Rated flow: 9.69 US GPM
 Rated head: 201.2 psi
 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

Materials:
 Base: Cast iron
 EN 1561 EN-GJL-200
 ASTM A48-25B
 Impeller: Stainless steel
 EN 1.4301
 AISI 304
 Bearing: SIC

Installation:
 Maximum operating pressure: 362.59 psi



Company name:

Created by:

Phone:

Date:

29/04/2025

Qty. Description

| | | |
|---|---------------------------------|-------------------------------------|
| 1 | Max pressure at stated temp: | 363 psi / 250 °F 363 psi / -4 °F |
| | Type of connection: | DIN / ANSI / JIS |
| | Size of inlet connection: | DN 25/32 1 1/4 inch |
| | Size of outlet connection: | DN 25/32 1 1/4 inch |
| | Pressure rating for connection: | PN 25 |
| | Flange rating inlet: | 250 lb |
| | Flange size for motor: | 182TC |
| | Electrical data: | |
| | Motor standard: | NEMA |
| | Power (P2) required by pump: | 3 HP |
| | Controls: | |
| | Frequency converter: | None |
| | Others: | |
| | Net weight: | 61.5 lb |
| | Gross weight: | 79.5 lb |
| | Shipping volume: | 6.11 ft³ |
| | Country of origin: | US |
| | Custom tariff no.: | 8413.70.2040 |



Company name:

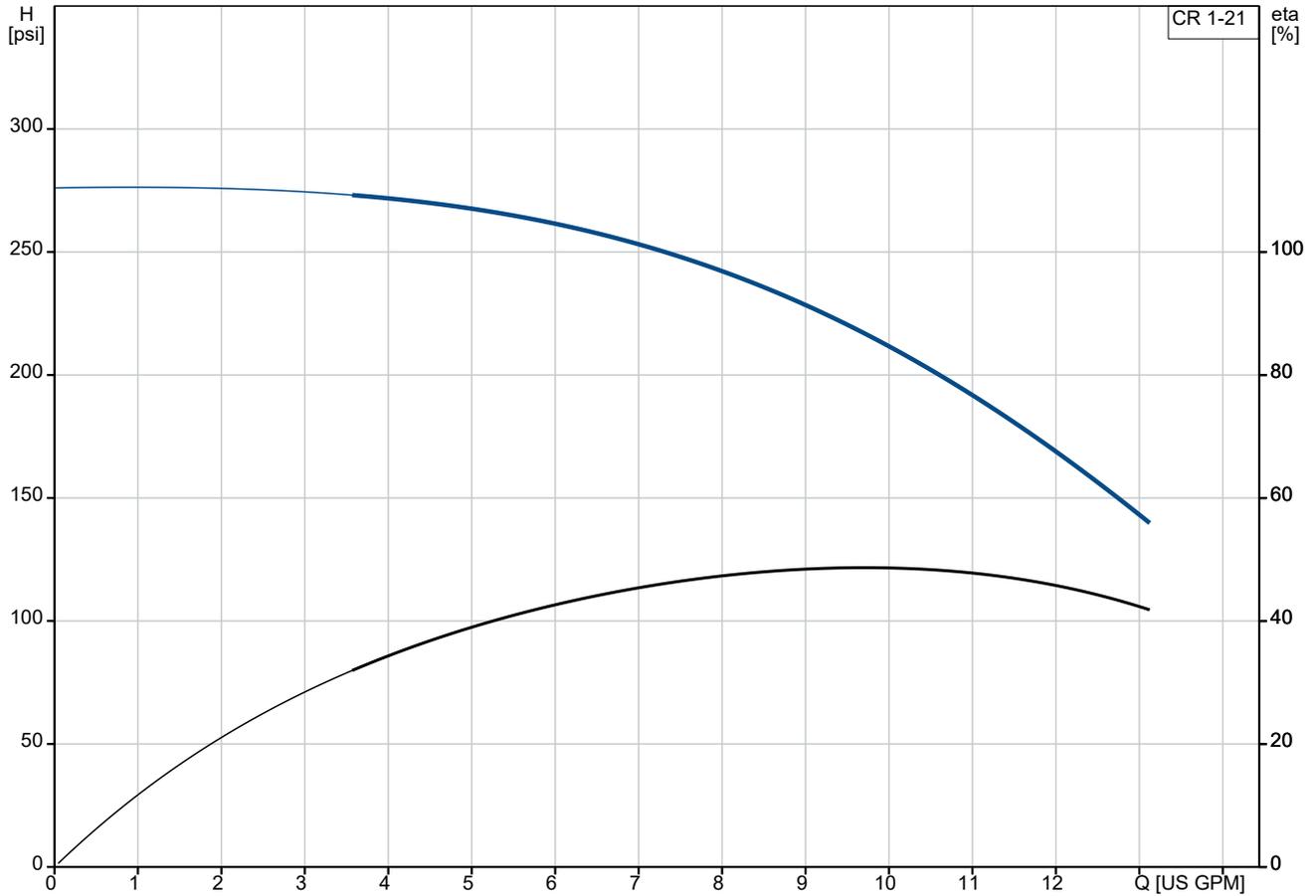
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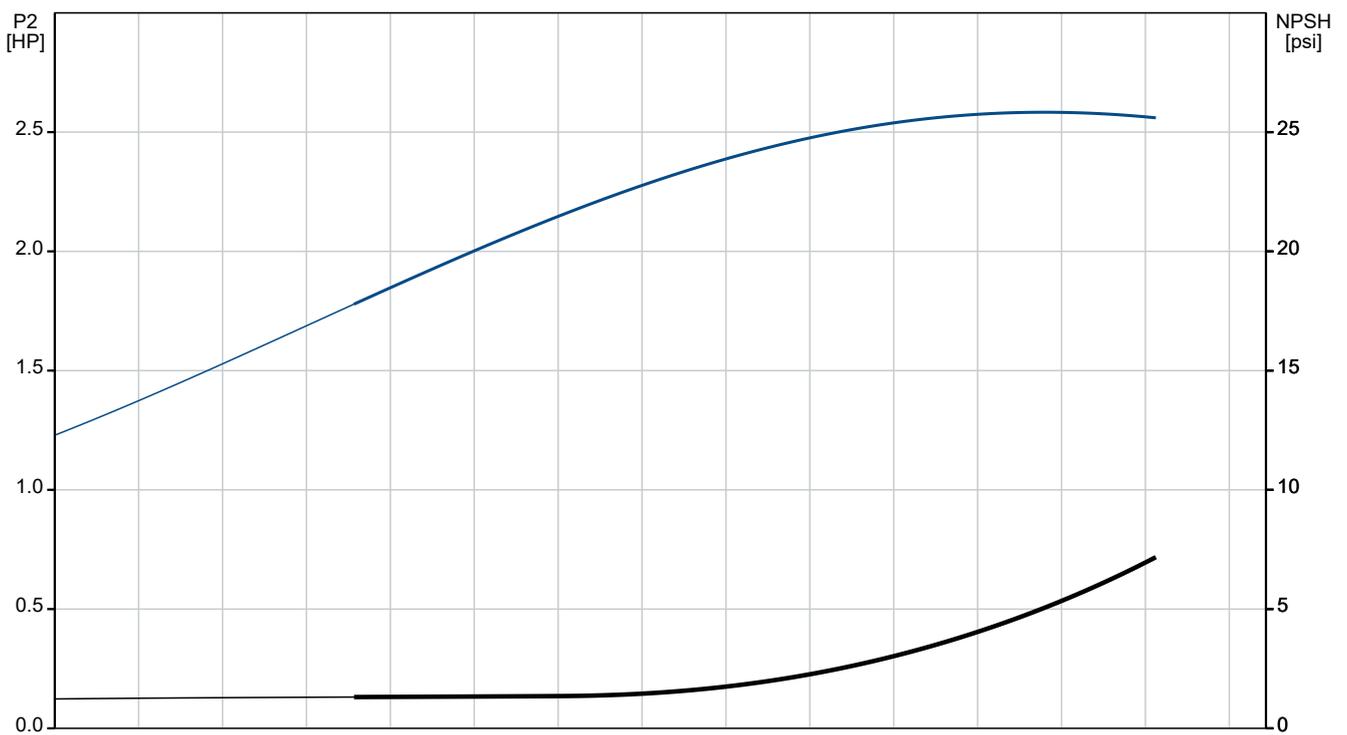
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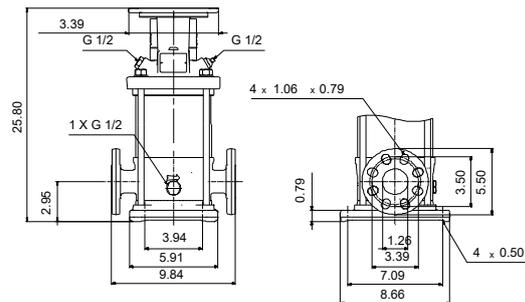
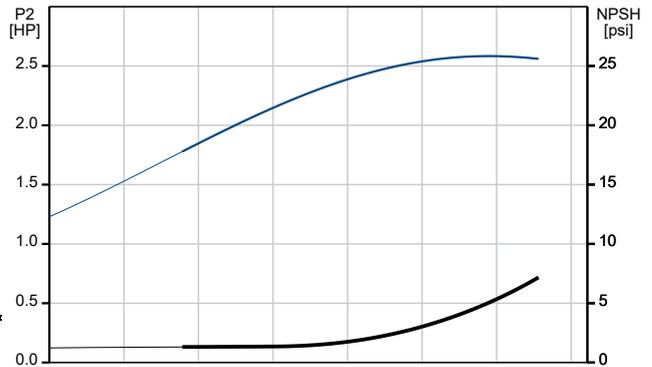
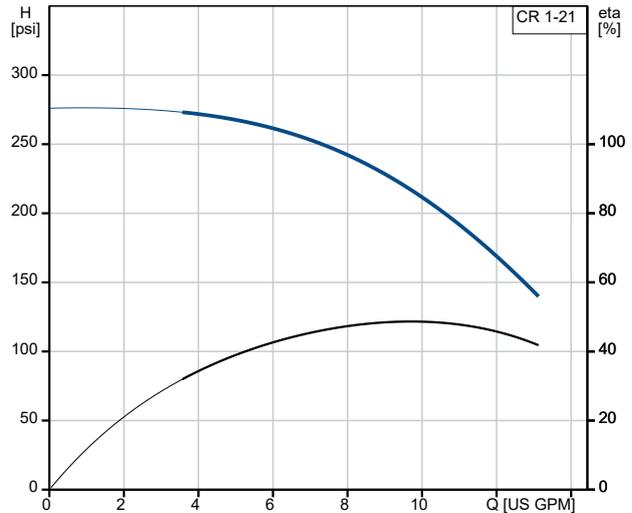
96082106 CR 1-21 A-FGJ-A-E-HQQE 60 Hz



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



| Description | Value |
|--|---|
| General information: | |
| Product name: | CR 1-21 A-FGJ-A-E-HQQE |
| Product No: | 96082106 |
| EAN number: | 5700395168440 |
| Technical: | |
| Pump speed on which pump data are based: | 3461 rpm |
| Rated flow: | 9.69 US GPM |
| Rated head: | 201.2 psi |
| Maximum head: | 267.2 psi |
| Stages: | 21 |
| Impellers: | 21 |
| 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: | A |
| Materials: | |
| Base: | Cast iron EN 1561 EN-GJL-200 ASTM A48-25B |
| Impeller: | Stainless steel EN 1.4301 AISI 304 |
| Material code: | A |
| Code for rubber: | E |
| Bearing: | SIC |
| Installation: | |
| Maximum operating pressure: | 362.59 psi |
| Max pressure at stated temp: | 363 psi / 250 °F 363 psi / -4 °F |
| Type of connection: | DIN / ANSI / JIS |
| Size of inlet connection: | DN 25/32 1 1/4 inch |
| Size of outlet connection: | DN 25/32 1 1/4 inch |
| Pressure rating for connection: | PN 25 |
| Flange rating inlet: | 250 lb |
| Flange size for motor: | 182TC |
| Connect code: | FGJ |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -4 .. 248 °F |
| Selected liquid temperature: | 68 °F |
| Density: | 62.29 lb/ft ³ |
| Electrical data: | |
| Motor standard: | NEMA |
| Power (P2) required by pump: | 3 HP |
| Controls: | |
| Frequency converter: | None |
| Others: | |





Company name:

Created by:

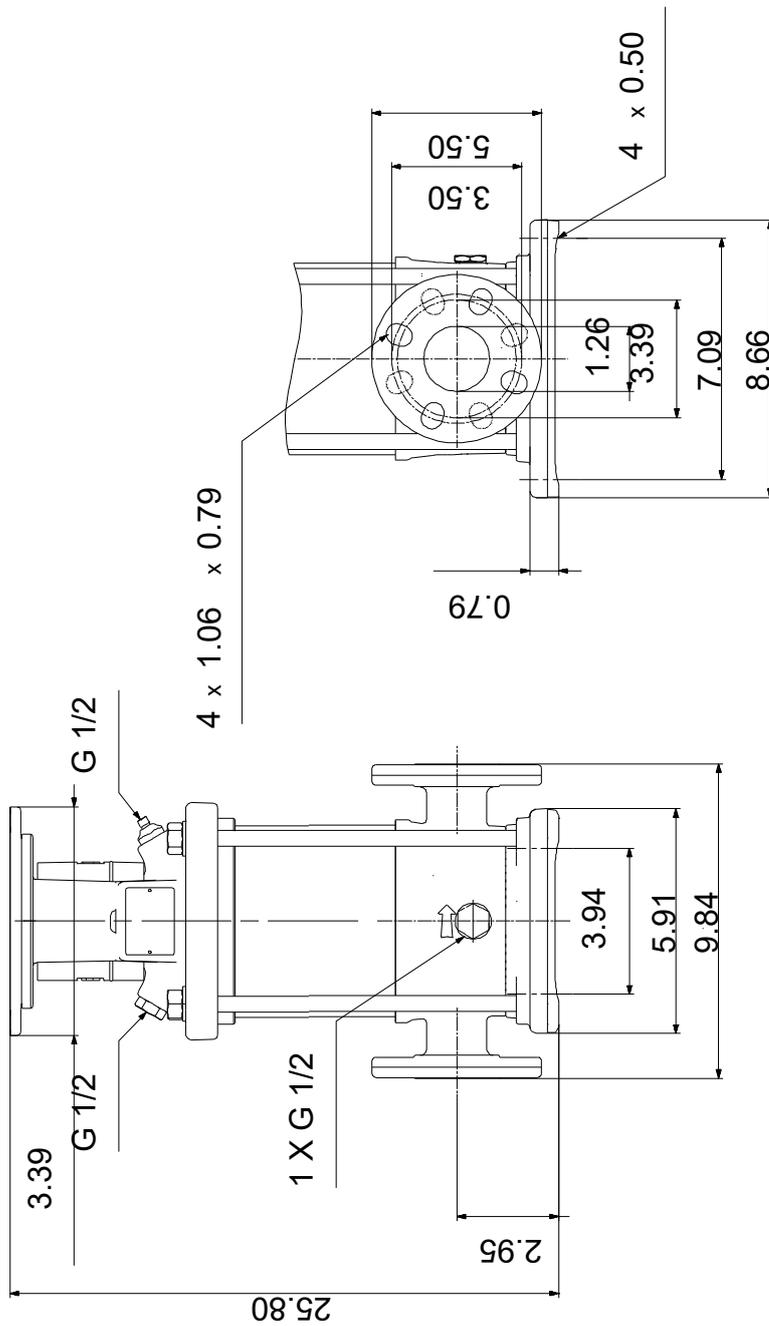
Phone:

Date:

29/04/2025

| Description | Value |
|--------------------|----------------------|
| Net weight: | 61.5 lb |
| Gross weight: | 79.5 lb |
| Shipping volume: | 6.11 ft ³ |
| Country of origin: | US |
| Custom tariff no.: | 8413.70.2040 |

96082106 CR 1-21 A-FGJ-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.