## **Submittal Data**

60 Hz

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

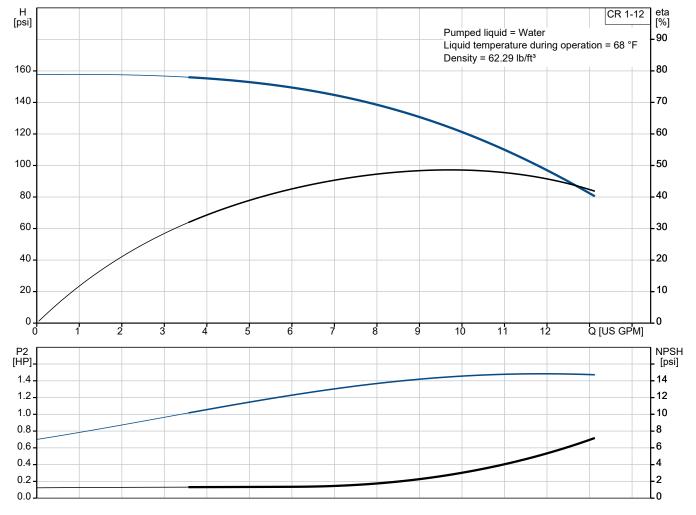


#### Note! Product picture may differ from actual product

## CR 1-12 A-FGJ-A-E-HQQE

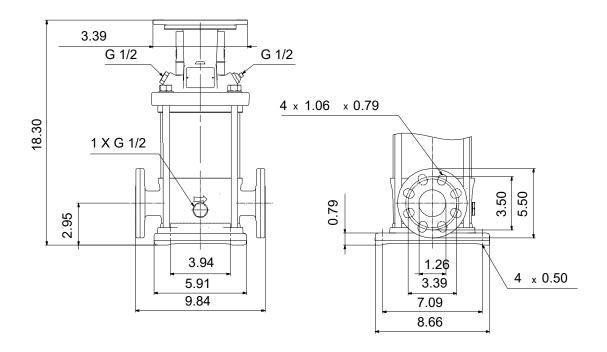
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Max pressure at stated temp:	363 psi / 250 °F	Mains frequency:	
Temperature:	68 °F	Liquid temperature range:	-4 248 °F		
Specific Gravity:	1.000	Shaft seal:	HQQE		
		Product number:	96082101		



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## **Submittal Data**



### Materials:

Base: Cast iron

EN 1561 EN-GJL-200

**ASTM A48-25B** 

Impeller: Stainless steel

AISI 304 EN 1.4301

□IN 1.4

Material code: A Code for rubber: E



**Date:** 28/04/2025

Qty. | Description

1 CR 1-12 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96082101

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.

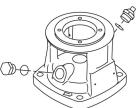
The entire process consists of these elements:

- 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.



**Date:** 28/04/2025

### Qty. | Description

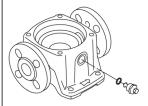
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The shaft seal is screwed into the pump head.

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 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: 3466 rpm

Rated flow: 9.69 US GPM
Rated head: 114.4 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:

Impeller:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B Stainless steel

EN 1.4301

AISI 304

Bearing: SIC

Installation:

Maximum operating pressure: 362.59 psi



**Date:** 28/04/2025

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: 56C

Electrical data:

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

Controls:

Frequency converter: None

Others:

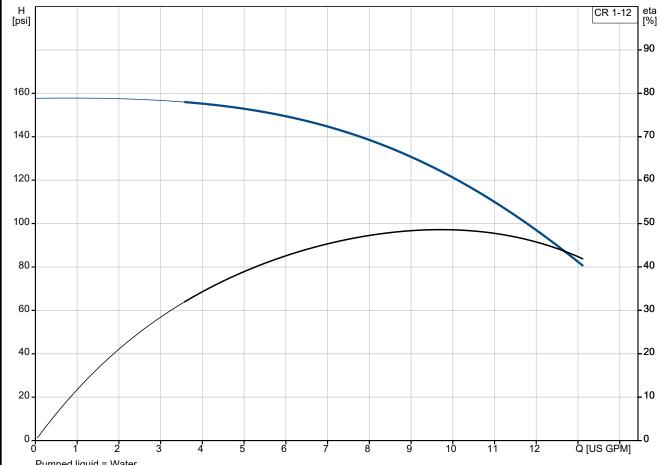
Net weight: 48.2 lb
Gross weight: 62.7 lb
Shipping volume: 4.94 ft³
Country of origin: US

Custom tariff no.: 8413.70.2040



28/04/2025 Date:

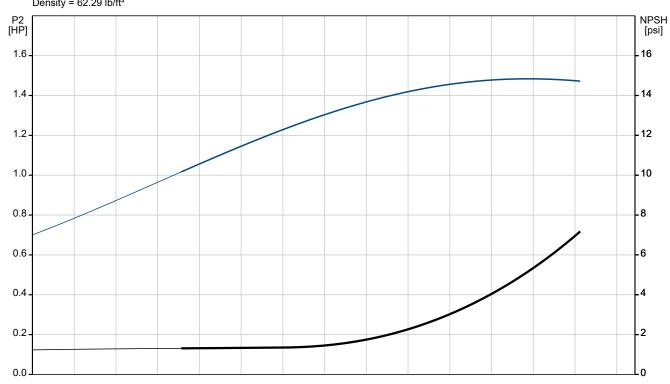
## 96082101 CR 1-12 A-FGJ-A-E-HQQE 60 Hz



Pumped liquid = Water

Liquid temperature during operation = 68 °F

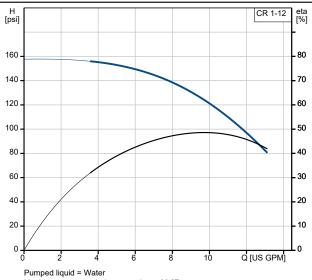
Density = 62.29 lb/ft<sup>3</sup>



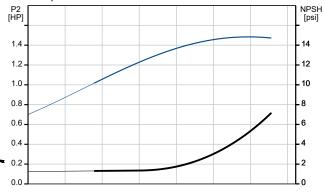


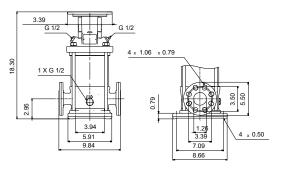
**Date:** 28/04/2025

Description	Value
General information:	
Product name:	CR 1-12 A-FGJ-A-E-HQQE
Product No:	96082101
EAN number:	5700395168396
Technical:	
Pump speed on which pump data are based:	3466 rpm
Rated flow:	9.69 US GPM
Rated head:	114.4 psi
Maximum head:	152.3 psi
Stages:	12
Impellers:	12
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Primary shaft seal:	HQQE
Code for shaft seal:	HOOE
Approvals:	CE
• •	NSF/ANSI 61
Approvals for drinking water:	
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:	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:	56C
Connect code:	FGJ
Liquid:	1 00
•	Mator
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:	
Frequency converter:	None



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







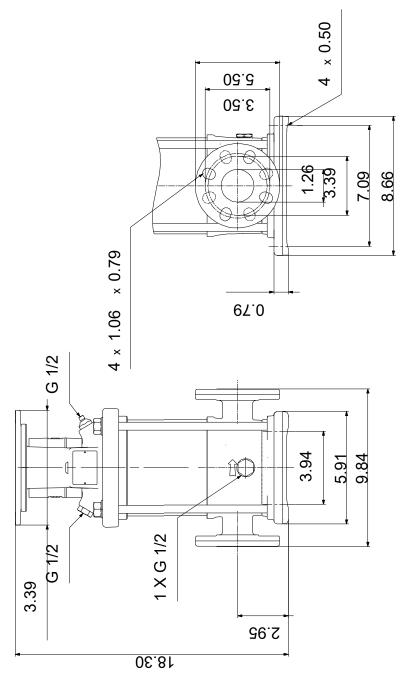
**Date:** 28/04/2025

Description	Value
Net weight:	48.2 lb
Gross weight:	62.7 lb
Shipping volume:	4.94 ft <sup>3</sup>
Country of origin:	US
Custom tariff no.:	8413.70.2040



28/04/2025 Date:

# 96082101 CR 1-12 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.