Submittal Data

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



CR 1-19 A-FGJ-A-E-HQQE

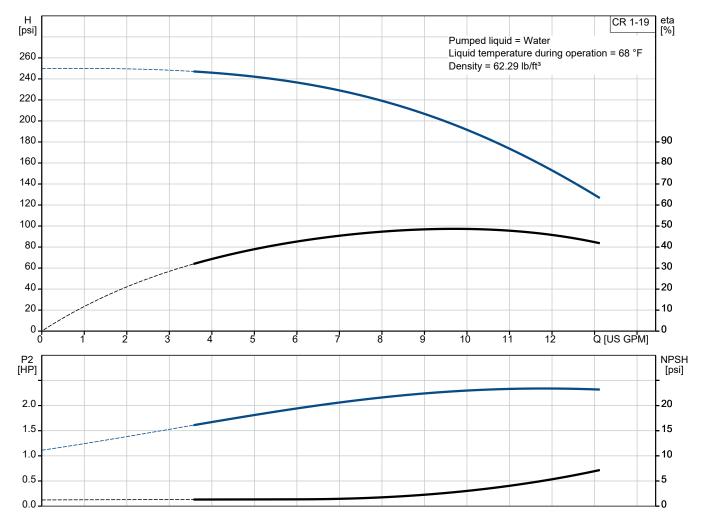
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Conditions of Service		
Liquid:	Water	
Temperature:	68 °F	
Specific Gravity:	1.000	

363 psi / 250 °F
-4 248 °F
HQQE
96839796

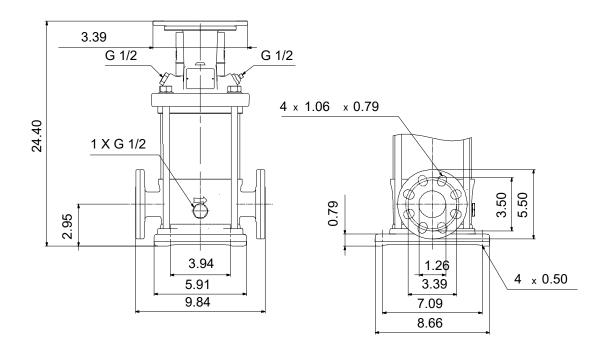
Pump Data

Motor Data Mains frequency: 60 Hz



1

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



Date: 28/04/2025

Qty. | Description

1 | CR 1-19 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96839796

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.

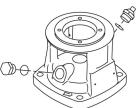
The entire process consists of these elements:

- 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

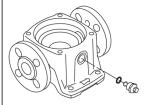
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The shaft seal is screwed into the pump head.

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: 3452 rpm

Rated flow: 9.69 US GPM
Rated head: 172.7 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: 182TC

Electrical data:

Motor standard: NEMA

Controls:

Frequency converter: None

Others:

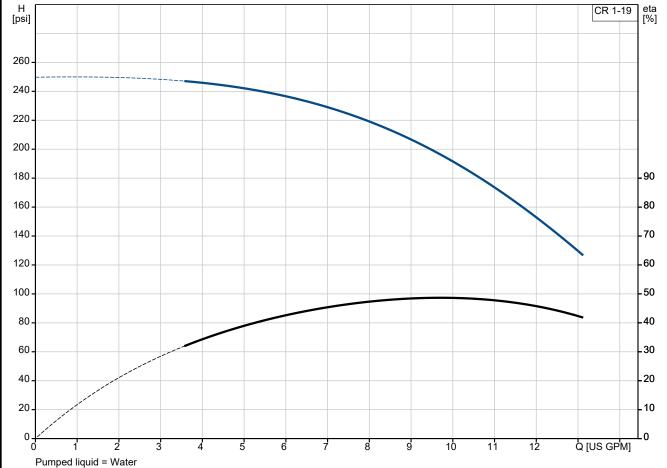
Net weight: 59.8 lb
Gross weight: 77.7 lb
Shipping volume: 4.94 ft³
Country of origin: US

Custom tariff no.: 8413.70.2040



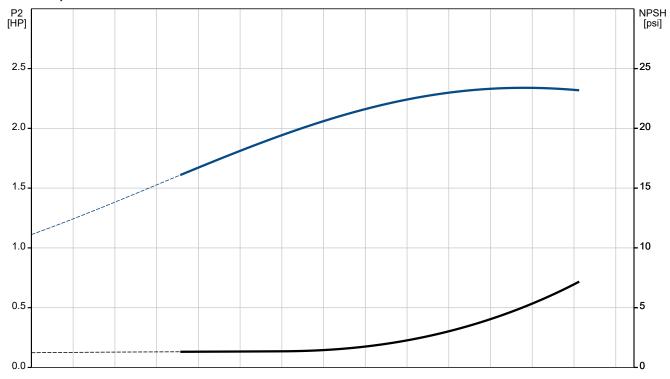
28/04/2025 Date:

96839796 CR 1-19 A-FGJ-A-E-HQQE 60 Hz



Liquid temperature during operation = 68 °F

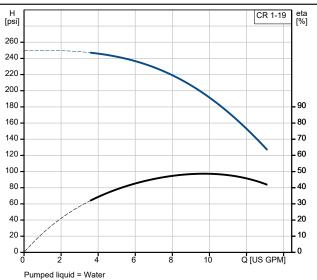
Density = 62.29 lb/ft³



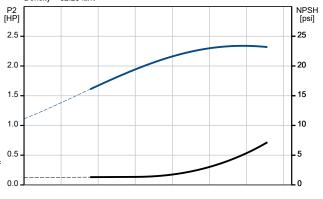


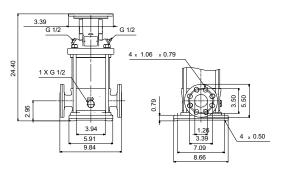
Date: 28/04/2025

Description	Value
General information:	
Product name:	CR 1-19
	A-FGJ-A-E-HQQE
Product No:	96839796
EAN number:	5700311676790
Technical:	
Pump speed on which pump data are based:	3452 rpm
Rated flow:	9.69 US GPM
Rated head:	172.7 psi
Maximum head:	237.5 psi
Stages:	19
Impellers:	19
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:	Α
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:	1 00
Pumped liquid:	Water
Liquid temperature range:	-4 248 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
Electrical data:	02.23 ID/IL
	NEMA
Motor standard:	NEMA
Controls:	Mana
Frequency converter:	None
	None 59.8 lb



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







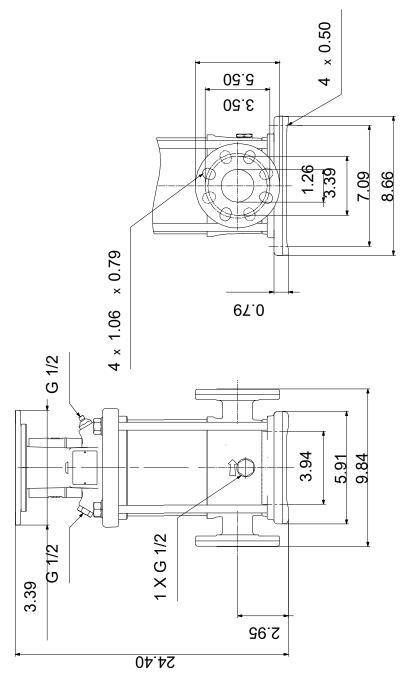
Date: 28/04/2025

Description	Value
Gross weight:	77.7 lb
Shipping volume:	4.94 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040



28/04/2025 Date:

96839796 CR 1-19 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.