## Submittal Data

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

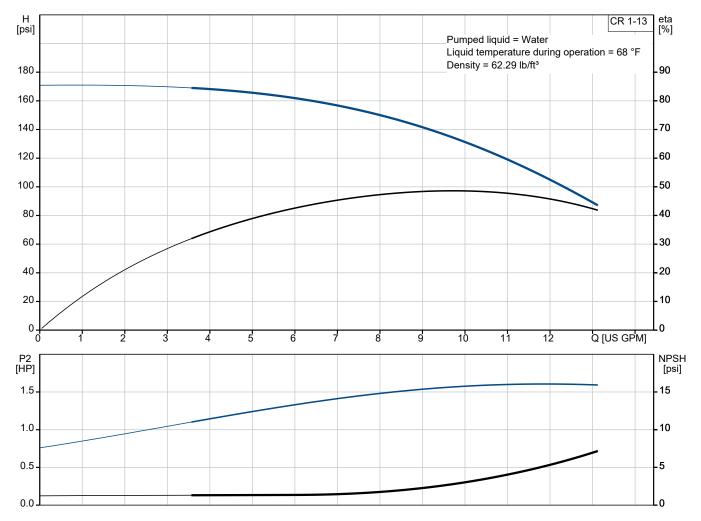


## CR 1-13 A-FGJ-A-E-HQQE

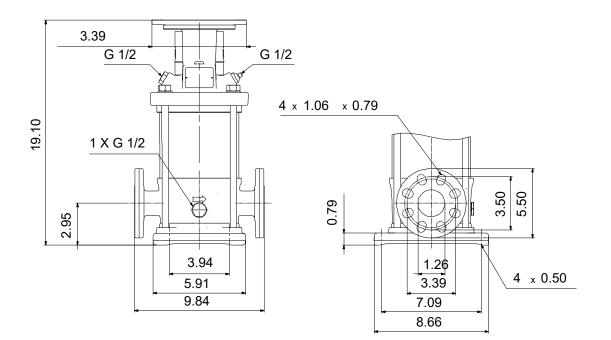
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid: Temperature: Specific Gravity:	Water 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Shaft seal: Product number:	363 psi / 250 °F -4 248 °F HQQE 96082102	Mains frequency:	60 Hz



# Submittal Data



Cast iron
EN 1561 EN-GJL-200
ASTM A48-25B
Stainless steel
AISI 304
EN 1.4301
Α
E

2



Qty. Description

1

Date:

28/04/2025



Note! Product picture may differ from actual product

Product No.: 96082102 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.

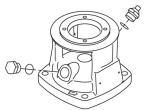
An integral part of the process is a pretreatment.

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.



28/04/2025

Qty. | Description

1



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.

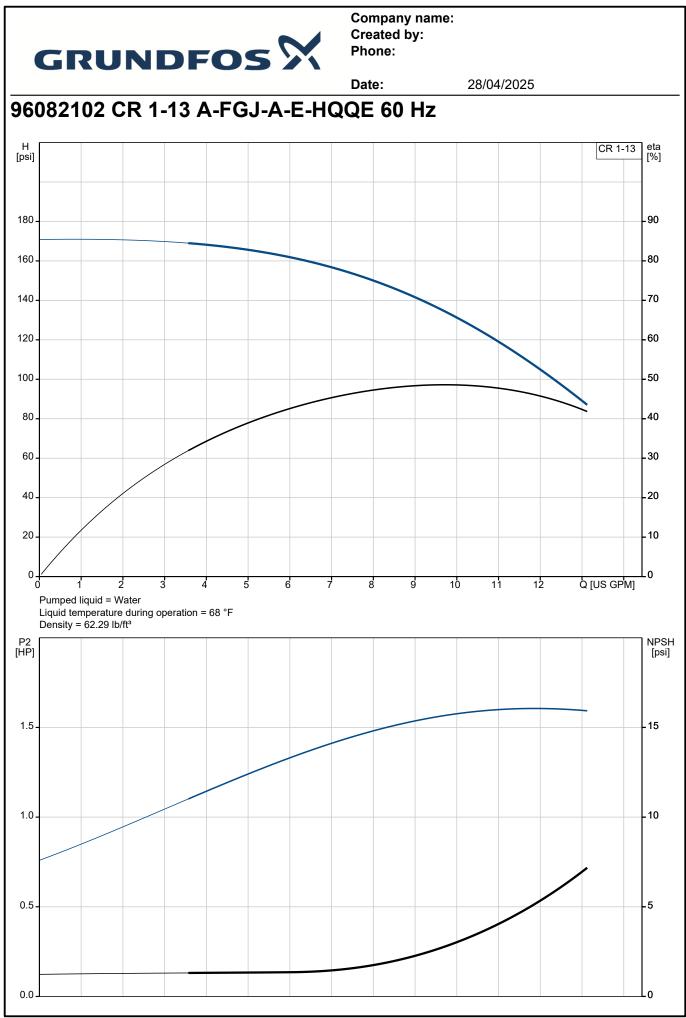


Motor The pump is sold without motor. Technical data

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 248 °F 68 °F 62.29 lb/ft³
Technical: Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Primary shaft seal: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	are based: 3466 rpm 9.69 US GPM 122.8 psi Vertical Single HQQE HQQE CE NSF/ANSI 61 ISO9906:2012 3B
Materials: Base: Impeller: Bearing:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304 SIC
Installation: Maximum operating pressure:	362.59 psi

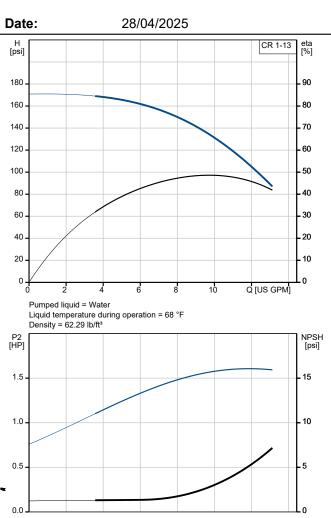


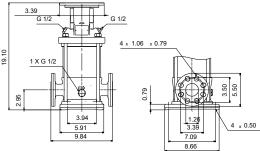
			Date:	28/04/2025	
Qty.	Description				
1	Max pressure at stated temp:	363 psi / 250 °F			
		363 psi / -4 °F			
	Type of connection:	DIN / ANSI / JIS			
	Size of inlet connection:	DN 25/32			
		1 1/4 inch			
	Size of outlet connection:	DN 25/32			
		1 1/4 inch			
	Pressure rating for connection:	PN 25			
	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:	49.1 lb			
	Gross weight:	63.6 lb			
	Shipping volume:	4.94 ft <sup>3</sup>			
	Country of origin:	US			
	Custom tariff no.:	8413.70.2040			





Description	Value	
General information:		
Product name:	CR 1-13 A-FGJ-A-E-HQQE	
Product No:	96082102	
AN number:	5700395168402	
echnical:		
Pump speed on which pump data are ased:	3466 rpm	
Rated flow:	9.69 US GPM	
Rated head:	122.8 psi	
laximum head:	164.6 psi	
itages:	13	
mpellers:	13	
lumber of reduced-diameter impellers:	0	
ow NPSH:	Ν	
Pump orientation:	Vertical	
shaft seal arrangement:	Single	
rimary shaft seal:	HQQE	
Code for shaft seal:	HQQE	
pprovals:	CE	
pprovals for drinking water:	NSF/ANSI 61	
Curve tolerance:	ISO9906:2012 3B	
Pump version:	A	
1odel:	A	
laterials:		
ase:	Cast iron	
	EN 1561 EN-GJL-200	
	ASTM A48-25B	
mpeller:	Stainless steel	
	EN 1.4301	
Actorial acida	AISI 304	
laterial code: Code for rubber:	A	
	SIC	
earing: nstallation:	310	
faximum operating pressure:	362.59 psi	
fax pressure at stated temp:	363 psi / 250 °F	
lax pressure at stated temp.	363 psi / -4 °F	
ype of connection:	DIN / ANSI / JIS	
Size of inlet connection:	DN 25/32	
	1 1/4 inch	
ize of outlet connection:	DN 25/32	
	1 1/4 inch	
Pressure rating for connection:	PN 25	
lange rating inlet:	250 lb	
lange size for motor:	56C	
Connect code:	FGJ	
iquid:		
· ?umped liquid:	Water	
iquid temperature range:	-4 248 °F	
Selected liquid temperature:	68 °F	
Density:	62.29 lb/ft <sup>3</sup>	
lectrical data:		
lotor standard:	NEMA	
Power (P2) required by pump:	1.5 HP	
controls:		
requency converter:	None	







		Date:	28/04/2025
Description	Value		
Net weight:	49.1 lb		
Gross weight:	63.6 lb		
Shipping volume:	4.94 ft <sup>3</sup>		
Country of origin:	US		
Custom tariff no .:	8413.70.2040		

