Submittal Data

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

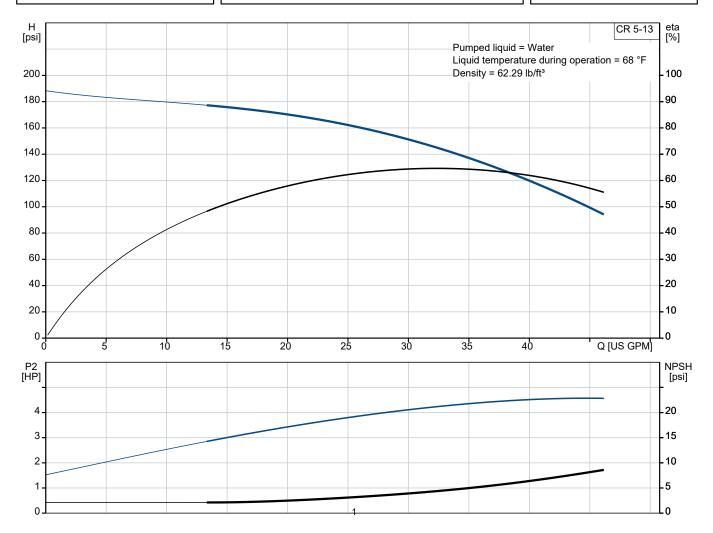


CR 5-13 A-B-A-E-HQQE

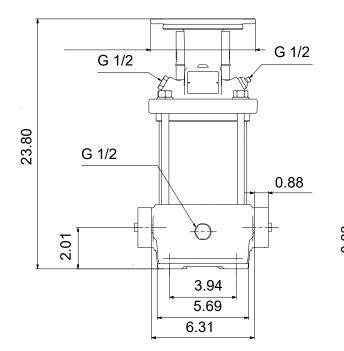
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

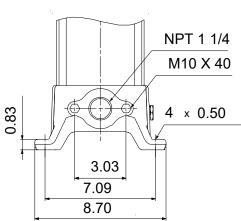
Note! Product picture may differ from actual product

Conditions of	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:	232 psi / 250 °F -4 248 °F HQQE 96084092	Mains frequency:	60 Hz



Submittal Data





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



Company name: Created by: Phone:

	Date:	25/06/2025	
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Qty. Description

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CR 5-13 A-B-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96084092 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.

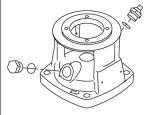
The entire process consists of these elements:

- 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)

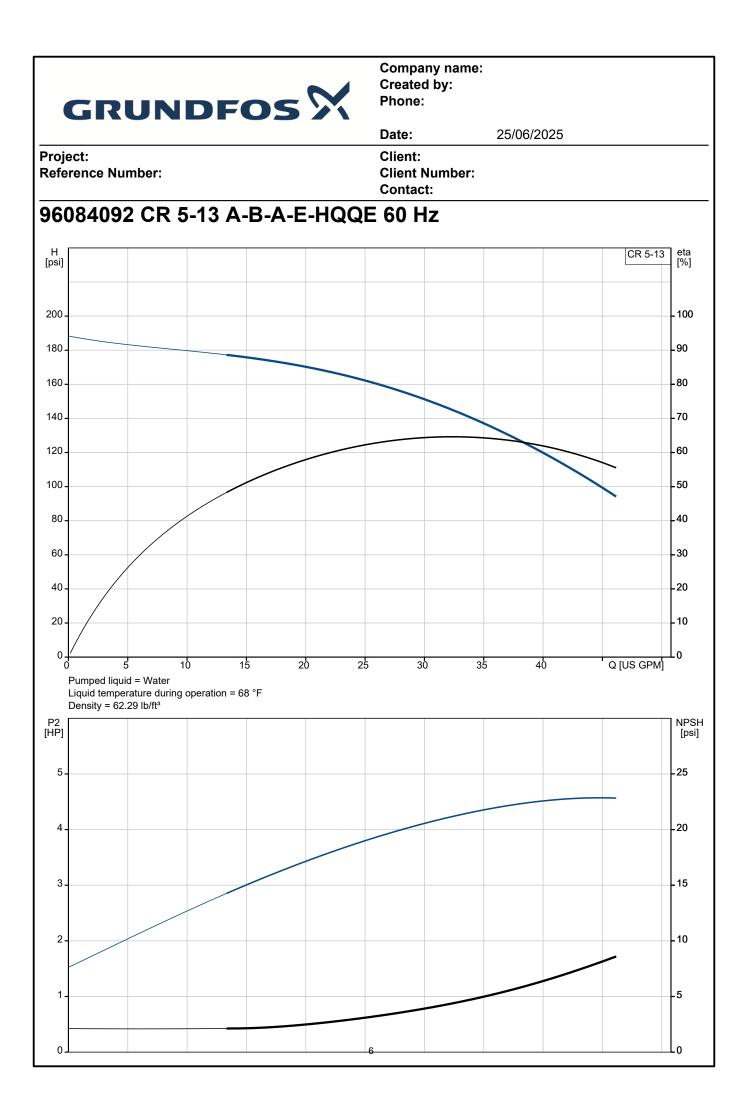
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. 3

	GRUNDF	osX	Company name: Created by: Phone:	
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Proje Refer	ct: ence Number:		Client: Client Number: Contact:	
Qty.	Description			
1				
	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 da Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Primary shaft seal: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	ta are based: 3461 30.4 US GPM 136.4 psi 2.88 in Vertical Single HQQE HQQE CE NSF/ANSI 61 ISO9906:2012 3B	rpm	
	Materials: Base:	Cast iron EN 1561 EN-GJL-2	00	
	Impeller:	ASTM A48-25B Stainless steel	4	



Company name: Created by: Phone:

			Date:	25/06/2025
Project: Reference Number:		Client: Client Number: Contact:		
Qty.	Description			
1	Bearing:	EN 1.4301 AISI 304 SIC		
	Dearing.	010		
	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: Size of outlet connection:	1 1/4 inch 1 1/4 inch		
	Pressure rating for connection:	PN 16		
	Flange size for motor:	182TC		
		10210		
	Electrical data:			
	Motor standard:	NEMA		
	Power (P2) required by pump:	5 HP		
	Controls:			
	Frequency converter:	None		
	Others:			
	DOE Pump Energy Index CL:	0.89		
	Net weight:	49.1 lb		
	Gross weight:	67 lb		
	Shipping volume:	4.94 ft ³		
	Country of origin:	US		
	Custom tariff no.:	8413.70.2040		





Company name: Created by: Phone:

Project: Reference Number:		Client: Client Number:		
		Contact:		
Description	Value	H [psi] CR 5-13 [%]		
General information:				
Product name:	CR 5-13 A-B-A-E-HQQE	200 - 100		
Product No:	96084092	180 90		
EAN number:	5700395189308	160 80		
Technical:		140 - 70		
Pump speed on which pump data are based:	3461 rpm	120 60		
Rated flow:	30.4 US GPM	100 - 50		
Rated head:	136.4 psi	80 - 40		
Maximum head:	183.6 psi			
Actual impeller diameter:	2.88 in	60		
Stages:	13	40 - / - 20		
Impellers:	13	20 - /		
Number of reduced-diameter impellers:	0			
Low NPSH:	Ν	0 / 1 0 0 5 10 15 20 25 30 35 40 Q [US GPM]		
Pump orientation:	Vertical	Pumped liquid = Water		
Shaft seal arrangement:	Single	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft³		
Primary shaft seal:	HQQE			
Code for shaft seal:	HQQE	P2 [HP]		
Approvals:	CE	5		
Approvals for drinking water:	NSF/ANSI 61			
Curve tolerance:	ISO9906:2012 3B	4 20		
Pump version:	Α			
Model:	Α	3		
Materials:				
Base:	Cast iron	2		
	EN 1561 EN-GJL-200			
	ASTM A48-25B			
Impeller:	Stainless steel			
	EN 1.4301			
	AISI 304			
Material code:	Α			
Code for rubber:	E	G 1/2		
Bearing:	SIC			
Installation:				
Maximum operating pressure:	232.06 psi	8 <u>G 1/2</u> NPT 1 1/4		
Max pressure at stated temp:	232 psi / 250 °F	0.88 M10 X 40		
	232 psi / -4 °F			
Type of connection:	Oval / NPT(F)			
Size of inlet connection:	1 1/4 inch	3.94		
Size of outlet connection:	1 1/4 inch	<u>5.69</u> <u>6.31</u> <u>7.09</u> <u>8.70</u>		
Pressure rating for connection:	PN 16	b #		
Flange size for motor:	182TC			
Connect code:	В			
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:	5 HP			
Controls:				
Frequency converter:	None	7		



0.89

49.1 lb 67 lb

4.94 ft³

8413.70.2040

US

DOE Pump Energy Index CL:

Net weight:

Gross weight:

Shipping volume: Country of origin:

Custom tariff no .:

Company name: Created by: Phone:

		Date:	25/06/2025
Project: Reference Number:		Client: Client Number: Contact:	
Description Others:	Value		



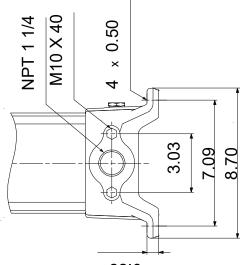
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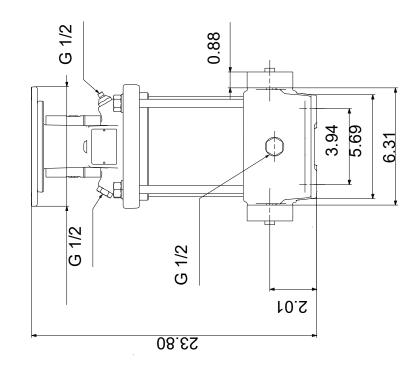
Project: Reference Number: **Client: Client Number:**

Contact:

96084092 CR 5-13 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.