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-V-HQQV

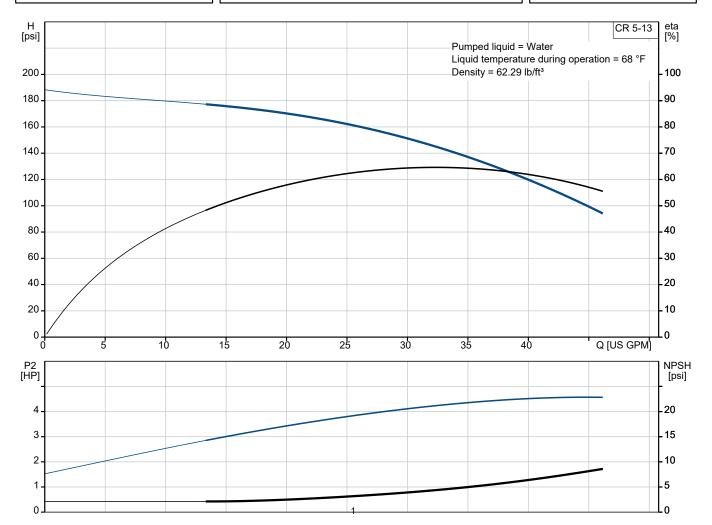
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

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

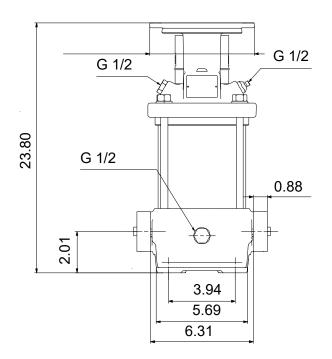
232 psi / 194 °F
-4 194 °F
HQQV
96084167

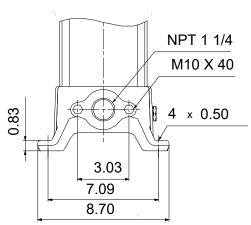
Pump Data

Motor Data 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: A Code for rubber: V



Date: 25/06/2025

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Client Number:

Qty. | Description

CR 5-13 A-B-A-V-HQQV



Note! Product picture may differ from actual product

Product No.: 96084167
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.

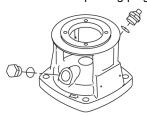
The entire process consists of these elements:

- 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.



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1 Secondary seal material: FKM (fluorocarbon rubber)

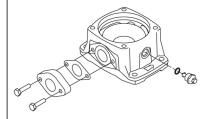
FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



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 oval flanges are bolted to the base. 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 .. 194 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Pump speed on which pump data are based: 3461 rpm

Rated flow: 30.4 US GPM Rated head: 136.4 psi Actual impeller diameter: 2.88 in Pump orientation: Vertical Shaft seal arrangement: Single Primary shaft seal: **HQQV** Code for shaft seal: **HQQV** CE Approvals:

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200 ASTM A48-25B

4

Impeller: Stainless steel



25/06/2025 Date:

Project: Client:

Reference Number: Client Number: Contact:

Qty. | Description

EN 1.4301 **AISI 304**

SIC

Bearing:

Installation:

232.06 psi Maximum operating pressure: 232 psi / 194 °F Max pressure at stated temp:

232 psi / -4 °F

Oval / NPT(F) Type of connection: Size of inlet connection: 1 1/4 inch Size of outlet connection: 1 1/4 inch Pressure rating for connection: PN 16 Flange size for motor: 182TC

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 4.94 ft³ Shipping volume: Country of origin: US

Custom tariff no .: 8413.70.2040



Company name: Created by:

Phone:

25/06/2025

Project:

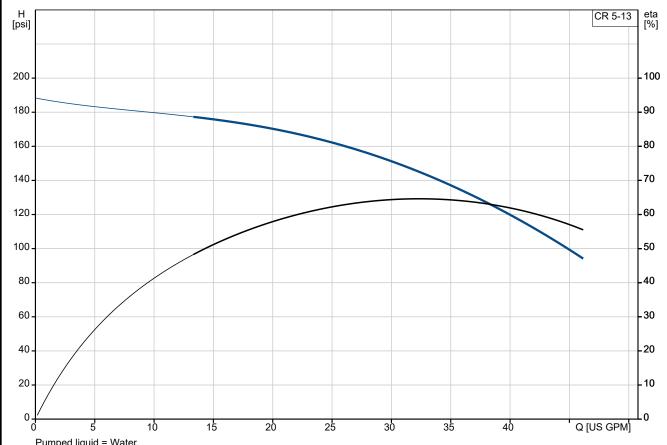
Reference Number:

Date: Client:

Client Number:

Contact:

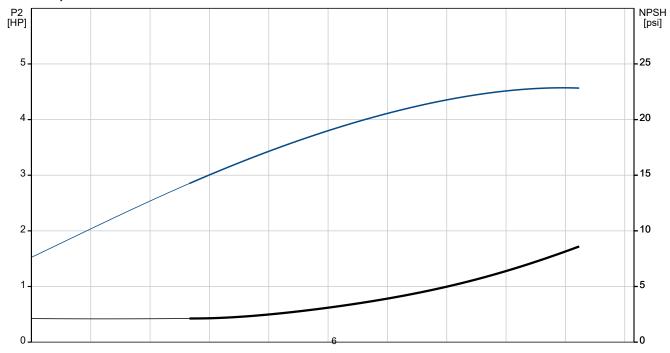
96084167 CR 5-13 A-B-A-V-HQQV 60 Hz



Pumped liquid = Water

Liquid temperature during operation = 68 °F

Density = 62.29 lb/ft³





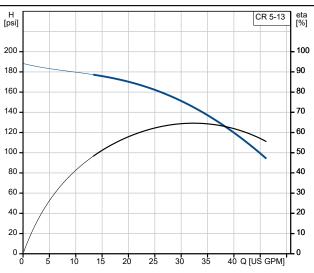
Date: 25/06/2025

Project:

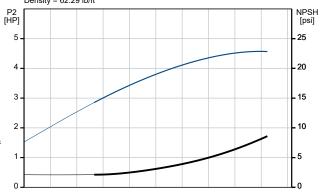
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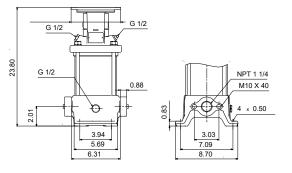
Client: Client Number: Contact:

Description	Value
General information:	
Product name:	CR 5-13 A-B-A-V-HQQV
Product No:	96084167
EAN number:	5700395190052
Technical:	
Pump speed on which pump data are based:	3461 rpm
Rated flow:	30.4 US GPM
Rated head:	136.4 psi
Maximum head:	183.6 psi
Actual impeller diameter:	2.88 in
Stages:	13
Impellers:	13
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Primary shaft seal:	HQQV
Code for shaft seal:	HQQV
Approvals:	CE
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:	V
Bearing:	SIC
Installation:	
Maximum operating pressure:	232.06 psi
Max pressure at stated temp:	232 psi / 194 °F
,	232 psi / -4 °F
Type of connection:	Oval / NPT(F)
Size of inlet connection:	1 1/4 inch
Size of outlet connection:	1 1/4 inch
Pressure rating for connection:	PN 16
Flange size for motor:	182TC
Connect code:	В
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 194 °F
	-4 194 F 68 °F
Selected liquid temperature:	
Density:	62.29 lb/ft ³
Electrical data:	NITNAA
Motor standard:	NEMA
Power (P2) required by pump:	5 HP
Controls: Frequency converter:	None



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







Date: 25/06/2025

Project: Reference Number:

Client:

Client Number: Contact:

Description	Value
DOE Pump Energy Index CL:	0.89
Net weight:	49.1 lb
Gross weight:	67 lb
Shipping volume:	4.94 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040



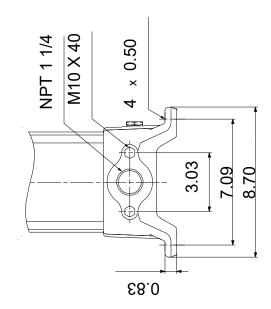
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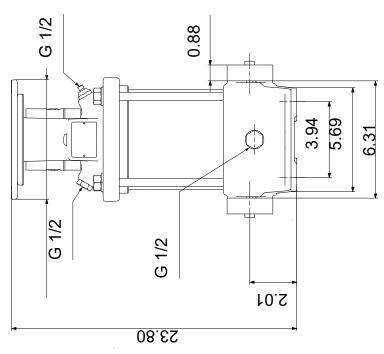
Date: 25/06/2025

Project:

Reference Number: Client Number: Contact:

96084167 CR 5-13 A-B-A-V-HQQV 60 Hz





Note! All units are in [in] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all detalls.