## **Submittal Data**

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



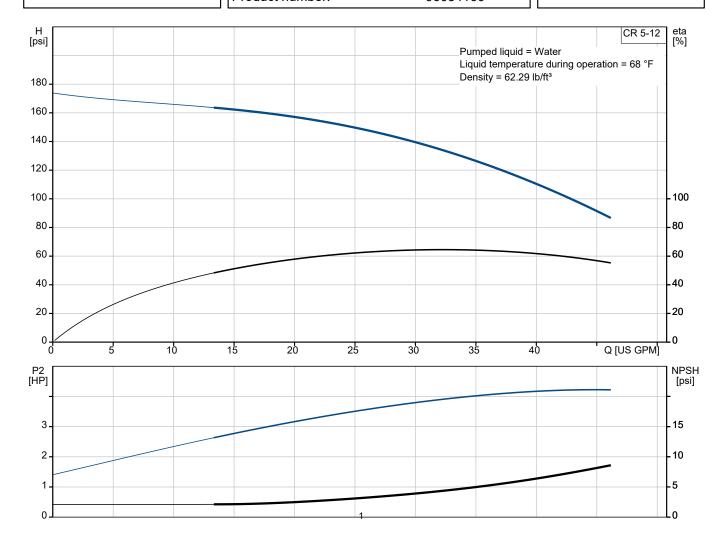
### Note! Product picture may differ from actual product

## CR 5-12 A-B-A-V-HQQV

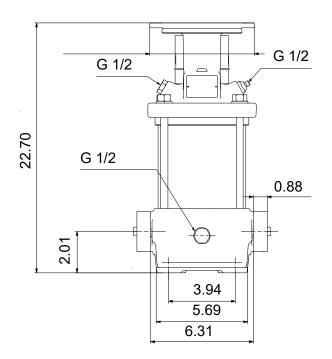
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

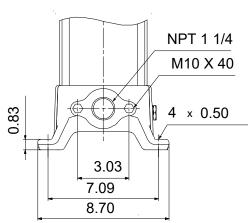
Conditions of Service		Pump Data		
Liquid:	Water	Max pressure at stated temp:	232 psi / 194 °F	
Temperature:	68 °F	Liquid temperature range:	-4 194 °F	
Specific Gravity:	1.000	Shaft seal:	HQQV	
		Product number:	96084166	

**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

Α

Material code: Code for rubber:



**Date:** 25/06/2025

Project:

Reference Number:

Client:

Contact:

Client Number:

### Qty. | Description

#### 1 CR 5-12 A-B-A-V-HQQV



Note! Product picture may differ from actual product

Product No.: 96084166 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.

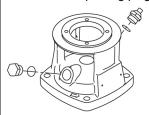
The entire process consists of these elements:

- 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.



**Date:** 25/06/2025

Project: Client:

Reference Number: Client Number: Contact:

### Qty. | Description

1 Secondary seal material: FKM (fluorocarbon rubber)

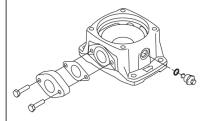
FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



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: 126.2 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

ASTM A48-25B
Impeller: Stainless steel 4



**Date:** 25/06/2025

Project: Client:

Reference Number: Client Number: Contact:

Qty. | Description

1 EN 1.4301 AISI 304

SIC

Installation:

Bearing:

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

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: 47.9 lb

Gross weight: 62.4 lb

Shipping volume: 4.94 ft³

Country of origin: US

Custom tariff no.: 8413.70.2040



Company name: Created by:

Phone:

25/06/2025

**Project:** 

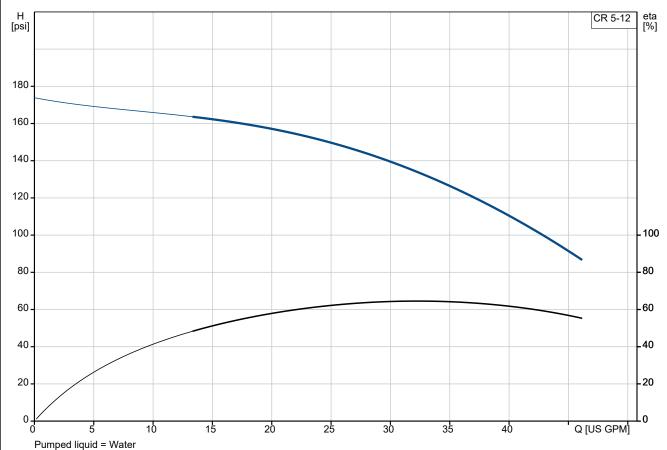
**Reference Number:** 

Date: Client:

**Client Number:** 

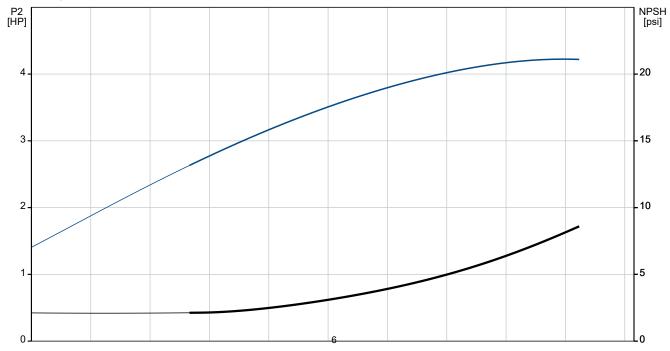
**Contact:** 

## 96084166 CR 5-12 A-B-A-V-HQQV 60 Hz



Liquid temperature during operation = 68 °F

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





**Date:** 25/06/2025

Project:

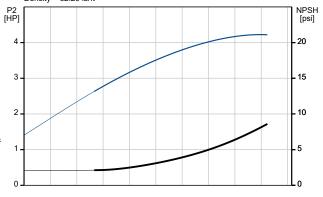
**Reference Number:** 

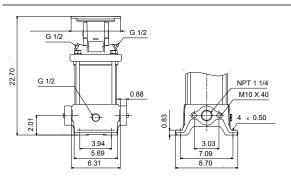
Client: Client Number:

Contact:

Description	Value
General information:	
Product name:	CR 5-12 A-B-A-V-HQQV
Product No:	96084166
EAN number:	5700395190045
Technical:	
Pump speed on which pump data are based:	3461 rpm
Rated flow:	30.4 US GPM
Rated head:	126.2 psi
Maximum head:	169.5 psi
Actual impeller diameter:	2.88 in
Stages:	12
Impellers:	12
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:	Α
Model:	Α
Materials:	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel

H [psi]				CR 5-12	eta [%]
180					
160 -					
140 _					
120 -					
100					- 100
80 -					- 80
60 -					- 60
40 -					- 40
20					- 20
0 5	10 15	20 25	30 35	40 Q [US GPM]	Lo
		operation = 68	3°F		





	AO 1101 A40-23D
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	Α
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
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft <sup>3</sup>
Electrical data:	

Motor standard:

Frequency converter:

Controls:

Others:

Power (P2) required by pump:

NEMA

5 HP

None

7



Date: 25/06/2025

Project: Reference Number:

Client:

**Client Number:** 

Contact:

Description	Value
DOE Pump Energy Index CL:	0.89
Net weight:	47.9 lb
Gross weight:	62.4 lb
Shipping volume:	4.94 ft <sup>3</sup>
Country of origin:	US
Custom tariff no.:	8413.70.2040

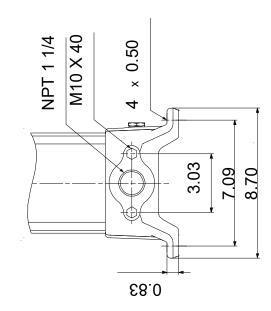


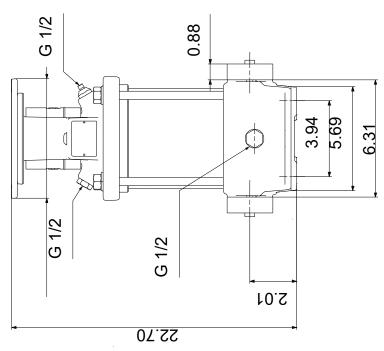
**Date:** 25/06/2025

Project: Client:

Reference Number: Client Number: Contact:

# 96084166 CR 5-12 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.