## **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 1-9 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)

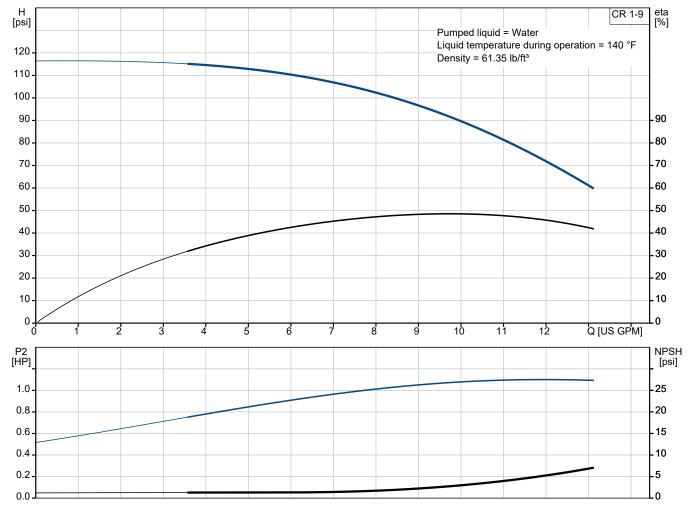
Conditions of Service		
Liquid:	Water	
Temperature:	140 °F	
Specific Gravity:	0.985	

232 psi / 194 °F
-4 194 °F
HQQV
96082028

**Pump Data** 

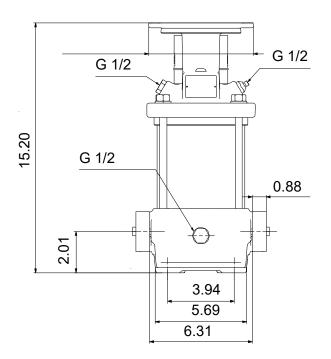
Motor Data

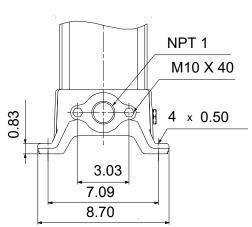
Mains frequency: 60 Hz



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# **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:** 22/04/2025

Qty. | Description

1 CR 1-9 A-B-A-V-HQQV



Note! Product picture may differ from actual product

Product No.: 96082028

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.

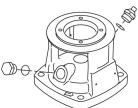
The entire process consists of these elements:

- 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.

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.



**Date:** 22/04/2025

### Qty. | Description

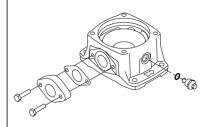
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The shaft seal is screwed into the pump head.

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 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: 140 °F
Density: 61.35 lb/ft³

Technical:

Pump speed on which pump data are based: 3484 rpm

Rated flow: 9.69 US GPM
Rated head: 81.25 psi
Pump orientation: Vertical
Shaft seal arrangement: Single
Primary shaft seal: HQQV
Code for shaft seal: HQQV
Approvals: CE

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

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

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

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



**Date:** 22/04/2025

Qty. | Description

1 232 psi / -4 °F

Type of connection: Oval / NPT(F)

Size of inlet connection: 1 inch
Size of outlet connection: 1 inch
Pressure rating for connection: PN 16
Flange size for motor: 56C

Electrical data:

Motor standard: NEMA
Power (P2) required by pump: 1 HP

Controls:

Frequency converter: None

Others:

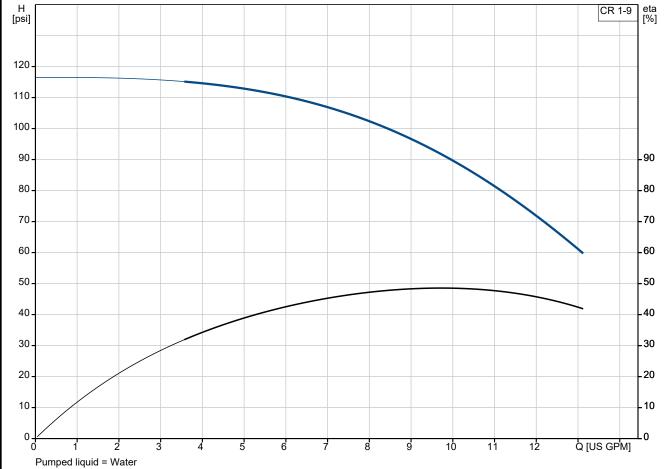
Net weight: 35.4 lb
Gross weight: 46.5 lb
Shipping volume: 4.94 ft³
Country of origin: US

Custom tariff no.: 8413.70.2040

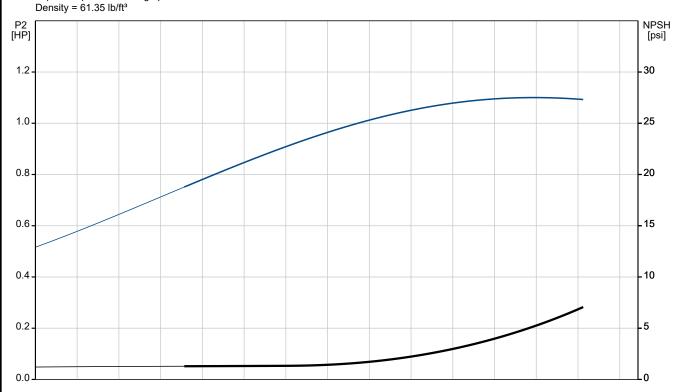


**Date:** 22/04/2025

# 96082028 CR 1-9 A-B-A-V-HQQV 60 Hz



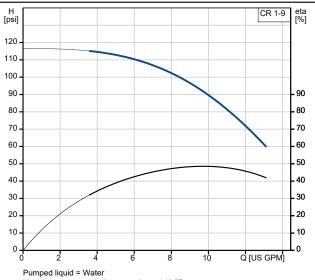
Pumped liquid = Water Liquid temperature during operation = 140 °F



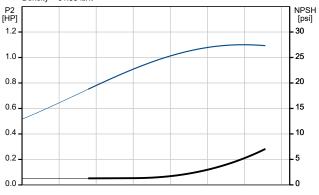


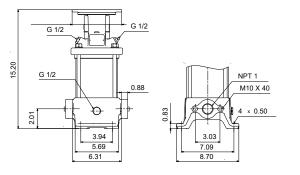
Date:	22/04/2025

Description	Value
General information:	
Product name:	CR 1-9 A-B-A-V-HQQ
Product No:	96082028
EAN number:	5700395167665
Technical:	
Pump speed on which pump data are based:	3484 rpm
Rated flow:	9.69 US GPM
Rated head:	81.25 psi
Maximum head:	111 psi
Stages:	9
Impellers:	9
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
	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 inch
Size of outlet connection:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	56C
Connect code:	В
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 194 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft³
Electrical data:	
Motor standard:	NEMA
Power (P2) required by pump:	1 HP
Controls:	
Frequency converter:	None
Others:	
Net weight:	35.4 lb
Gross weight:	46.5 lb
Shipping volume:	4.94 ft³
Country of origin:	



Pumped liquid = Water Liquid temperature during operation = 140 °F Density = 61.35 lb/ft³





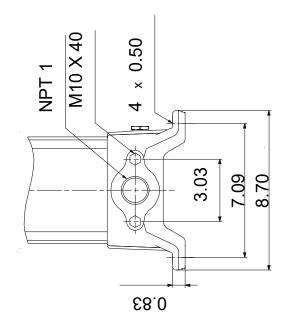


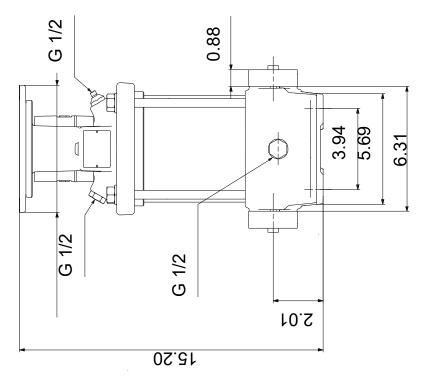
		Date:	22/04/2025
Description	Value		
Custom tariff no.:	8413.70.2040		



22/04/2025 Date:

# 96082028 CR 1-9 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 details.