# Submittal Data

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

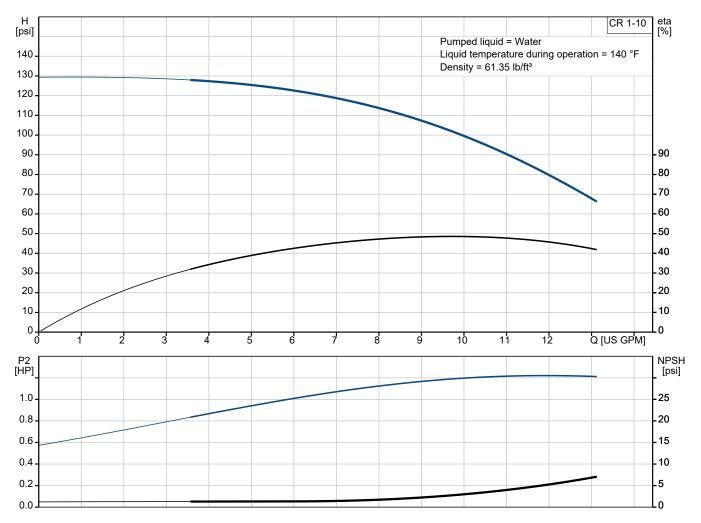


CR 1-10 A-B-A-V-HQQV

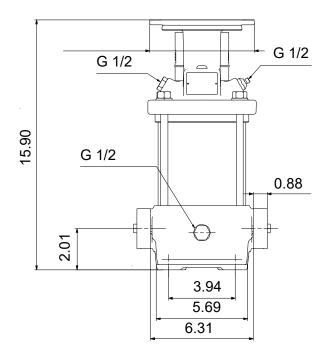
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

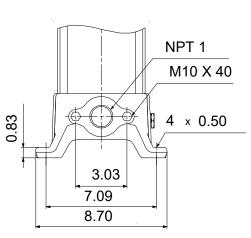
Note! Product picture may differ from actual product

Conditions of Service		Pump Data	Motor Data		
Liquid: Temperature: Specific Gravity:	Water 140 °F 0.985	Max pressure at stated temp: Liquid temperature range: Shaft seal: Product number:	232 psi / 194 °F -4 194 °F HQQV 96082029	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:	V				



22/04/2025

Qty. | Description

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## CR 1-10 A-B-A-V-HQQV



Note! Product picture may differ from actual product

Product No.: 96082029 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.

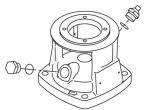
An integral part of the process is a pretreatment.

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.



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Qty. | Description

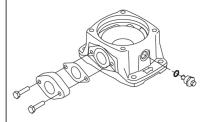
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The shaft seal is screwed into the pump head.

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.

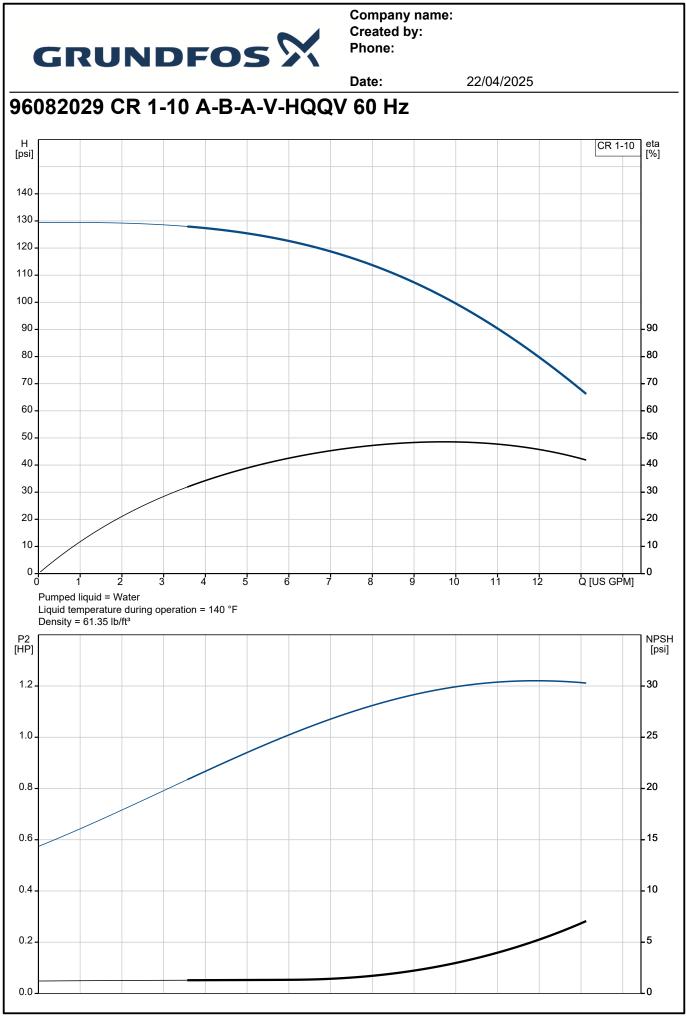


Motor The pump is sold without motor. Technical data

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 194 °F 140 °F 61.35 lb/ft³
Technical: Pump speed on which pump da Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Primary shaft seal: Code for shaft seal: Approvals: Curve tolerance:	ta are based: 3484 rpm 9.69 US GPM 88.52 psi Vertical Single HQQV HQQV CE 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: Max pressure at stated temp:	232.06 psi 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:	36.3 lb		
	Gross weight:	47.3 lb		
	Shipping volume:	4.94 ft <sup>3</sup>		
	Country of origin:	US		
	Custom tariff no.:	8413.70.2040		



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Description	Value	H [psi]				CR 1-10	o et
General information:	value						- L%
	CR 1-10	140 -					
Product name:	A-B-A-V-HQQV	130 -					
Product No:	96082029	120 -					
EAN number:	5700395167672	110 -					
Technical:		100 -					
Pump speed on which pump data are based:	3484 rpm	90 <b>-</b> 80 <b>-</b>					- 90 - 80
Rated flow:	9.69 US GPM	70 -					-70
Rated head:		60 -					- 6
Maximum head:	88.52 psi 122.6 psi	50 -					- 5
	10	40 -					4
Stages:		30 -					- 3
Impellers:	10	20 -					- 20
Number of reduced-diameter impellers:	0	10 -					1
Low NPSH:	N	0					H٥
Pump orientation:	Vertical	o	2 4	0	8	10 Q US GPM	]
Shaft seal arrangement:	Single		ed liquid = Wat		n = 1/0 °⊑		
Primary shaft seal:	HQQV		temperature de ty = 61.35 lb/ft <sup>3</sup>	uning operation	11 - 140 F		
Code for shaft seal:	HQQV	P2 [HP]					Ņ
Approvals:	CE	[HP] 1.2 <b>-</b>					[
Curve tolerance:	ISO9906:2012 3B	1.2 -					Γ
Pump version:	A	1.0 -					-2
Model:	A	-					
Materials:		0.8					- 20
Base:	Cast iron	-					
	EN 1561 EN-GJL-200	0.6					- 1
	ASTM A48-25B	0.4					1
Impeller:	Stainless steel	0.4					E ï
•	EN 1.4301	0.2					5
	AISI 304						
Material code:	A	0.0	_				Lo
Code for rubber:	V	_					
Bearing:	SIC	_	F	<b>2</b> 7			
Installation:	0.0		G 1/2	G 1/2			
Maximum operating pressure:	232.06 psi	-   -		₽₩			
Max pressure at stated temp:	232 psi / 194 °F	- 1	Ч <b>—</b>				
max pressure at stated temp.	232 psi / -4 °F	12.00 G 1	12			NPT 1	
Type of connection:	Oval / NPT(F)	- `		0.88		M10 X 40	
Size of inlet connection:	1 inch	_		_47			
Size of outlet connection:	1 inch	2.01	− <u>t</u> † ə			4 × 0.50	
		7	3.9			<u>الالا</u>	
Pressure rating for connection:	PN 16		5.6		7.0		
Flange size for motor:	56C		6.31		8.7		
Connect code:	В						
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-4 194 °F						
Selected liquid temperature:	140 °F						
Density:	61.35 lb/ft <sup>3</sup>						
Electrical data:							
Motor standard:	NEMA						
Power (P2) required by pump:	1 HP						
Controls:							
Frequency converter:	None						
Others:							
Net weight:	36.3 lb						
Gross weight:	47.3 lb						
Shipping volume:	4.94 ft <sup>3</sup>						
Country of origin:	US						



Date:

22/04/2025

Description Custom tariff no.: Value 8413.70.2040

