# Submittal Data

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

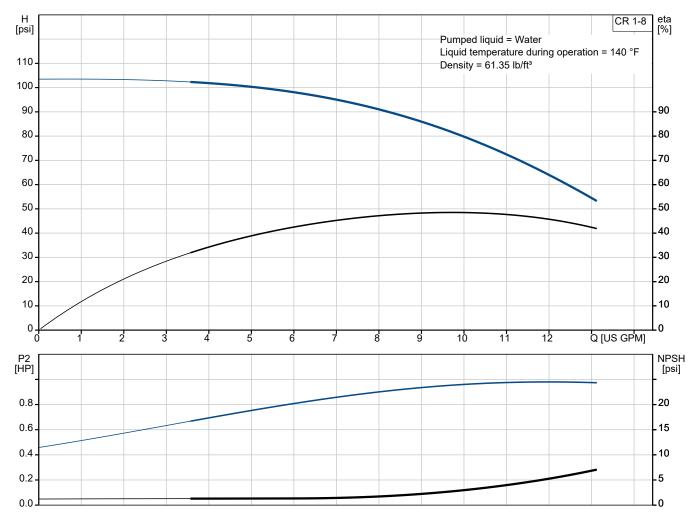


# CR 1-8 A-FGJ-A-V-HQQV

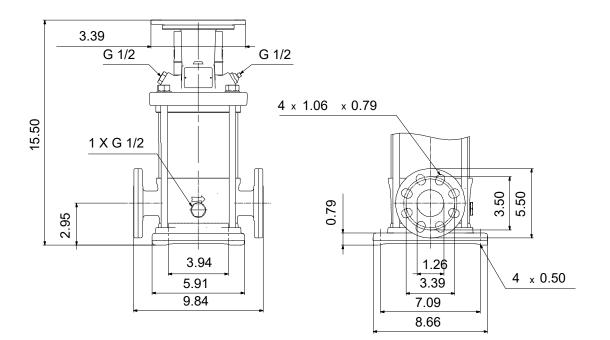
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

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:	363 psi / 194 °F -4 194 °F HQQV 96082192	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:	А				

Code for rubber: V



25/04/2025

Qty. | Description

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Note! Product picture may differ from actual product

Product No.: 96082192 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 combined DIN-ANSI-JIS flanges.

### 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.

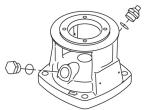
An integral part of the process is a pretreatment.

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.



25/04/2025

Qty. | Description

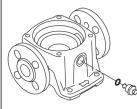
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The shaft seal is screwed into the pump head.

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 flanges and base are cast in one piece. 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.

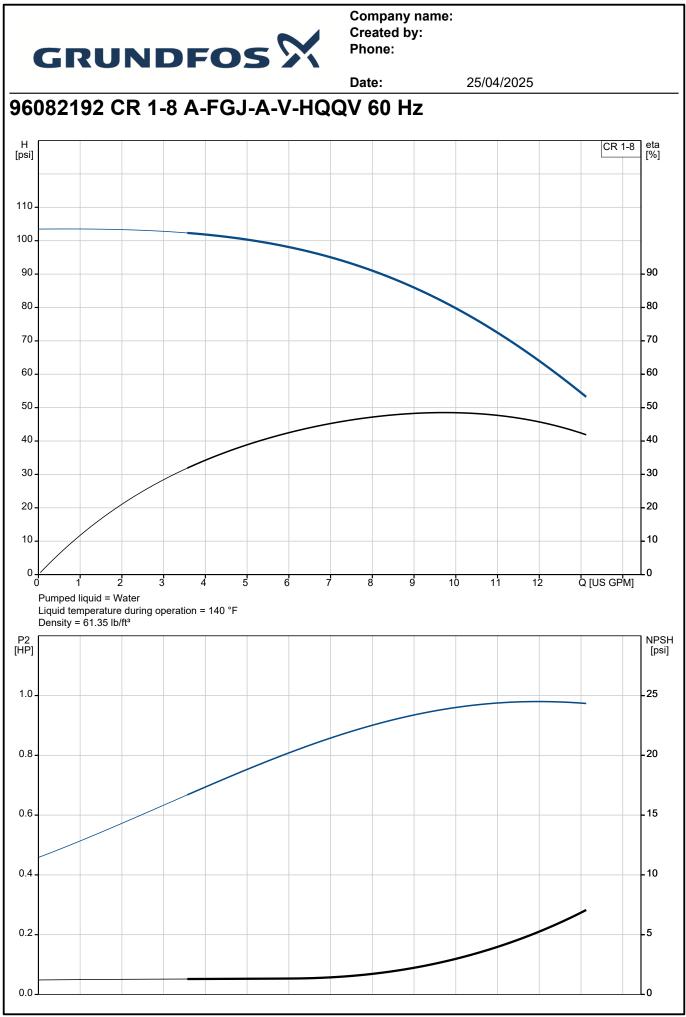


Motor The pump is sold without motor. Technical data

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 data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Primary shaft seal: Code for shaft seal: Approvals: Curve tolerance:	are based: 3484 rpm 9.69 US GPM 72.86 psi Vertical Single HQQV HQQV CE ISO9906:2012 3B
Materials: Base:	Cast iron
Impeller: Bearing:	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:	362.59 psi 363 psi / 194 °F



			Date:	25/04/2025	
Qty.	Description				
1		363 psi / -4 °F			
	Type of connection:	DIN / ANSI / JIS			
	Size of inlet connection:	DN 25/32			
		1 1/4 inch			
	Size of outlet connection:	DN 25/32			
		1 1/4 inch			
	Pressure rating for connection:	PN 25			
	Flange rating inlet:	250 lb			
	Flange size for motor:	56C			
	Electrical data:				
	Motor standard:	NEMA			
	Power (P2) required by pump:	1 HP			
	Controls:				
	Frequency converter:	None			
	Others:				
	Net weight:	44.5 lb			
	Gross weight:	55.5 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					CR 1-8	et
Description General information:	Value	[psi]						[%
	CR 1-8	110						_
Product name:	A-FGJ-A-V-HQQV	100 -						
Product No:	96082192	90 -						L 90
EAN number:	5700395169300							
Technical:		80 -						- 80
Pump speed on which pump data are based:	3484 rpm	70 - 60 -					$\mathbf{i}$	- 70
Rated flow:	9.69 US GPM							
Rated head:	72.86 psi	50 -						- 50
Maximum head:	99.01 psi	40 -					`	+40
Stages:	8	30 -						- 30
Impellers:	8	20 -						20
Number of reduced-diameter impellers:	0	10 -						
Low NPSH:	Ν	- /						
Pump orientation:	Vertical	0	2	4	6 8	3 10	Q [US GPM]	T 0
Shaft seal arrangement:	Single	Pun	nped liquid = V	Vater				
Primary shaft seal:	HQQV	Liqu	uid temperatur	e during op	eration = 140	)°F		
Code for shaft seal:	HQQV		nsity = 61.35 lb	o/it <sup>3</sup>				
Approvals:	CE	P2 [HP]						ĺ
Curve tolerance:	ISO9906:2012 3B	1.0 -						2
Pump version:	A							
Model:	A	0.8						20
Materials:								
Base:	Cast iron	0.6						- 15
	EN 1561 EN-GJL-200	-						
	ASTM A48-25B	0.4						+ 10
Impeller:	Stainless steel						1	
	EN 1.4301	0.2						- 5
	AISI 304	_						
Material code:	A	0.0						L٥
Code for rubber:	V							
Bearing:	SIC							
Installation:			. F=					
Maximum operating pressure:	362.59 psi		G 1/2	G 1/	2			
Max pressure at stated temp:	363 psi / 194 °F	_	<u>x</u> u	Hy				
·······	363 psi / -4 °F		'YF=	=′ <u>⁴</u>	x 1.06 x 0.79	_		
Type of connection:	DIN / ANSI / JIS	15.50	I X G 1/2					
Size of inlet connection:	DN 25/32		UN					
	1 1/4 inch	g			0.79		3.50	
Size of outlet connection:	DN 25/32	2.95		±======				
	1 1/4 inch		3.9			1.26	4 x 0.50	
Pressure rating for connection:	PN 25		9.8			7.09		
Flange rating inlet:	250 lb					8.66	1	
Flange size for motor:	56C							
Connect code:	FGJ							
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:	51.00 ID/IL							
Motor standard:	NEMA							
Power (P2) required by pump:	1 HP							
Controls:	110							
Frequency converter:	None							
Others:								
	44 E lb							
Net weight:	44.5 lb							



DescriptionValueGross weight:55.5 lbShipping volume:4.94 ft³Country of origin:USCustom tariff no.:8413.70.2040

