# Submittal Data

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

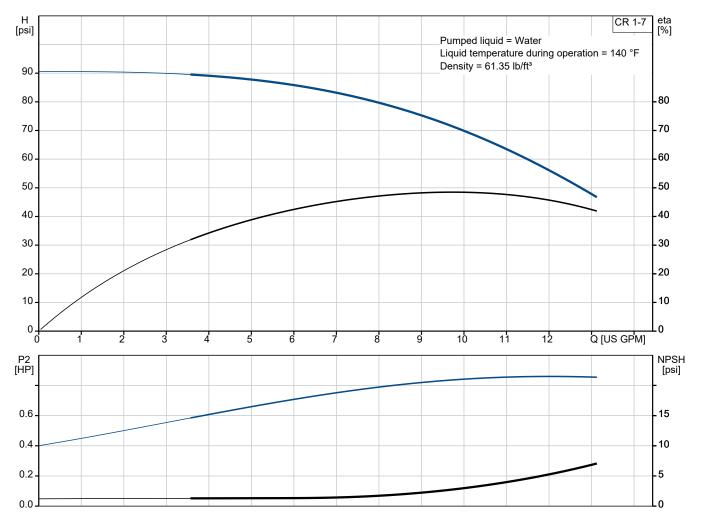


## CR 1-7 A-FGJ-A-E-HQQE

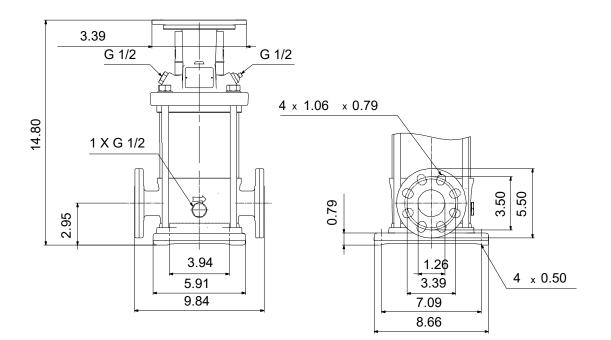
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

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 / 250 °F -4 248 °F HQQE 96082096	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:	E



25/04/2025

Qty. | Description

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# CR 1-7 A-FGJ-A-E-HQQE

Note! Product picture may differ from actual product

Product No.: 96082096 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.

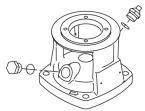
An integral part of the process is a pretreatment.

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: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



25/04/2025

Qty. | Description

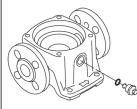
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The shaft seal is screwed into the pump head.

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.

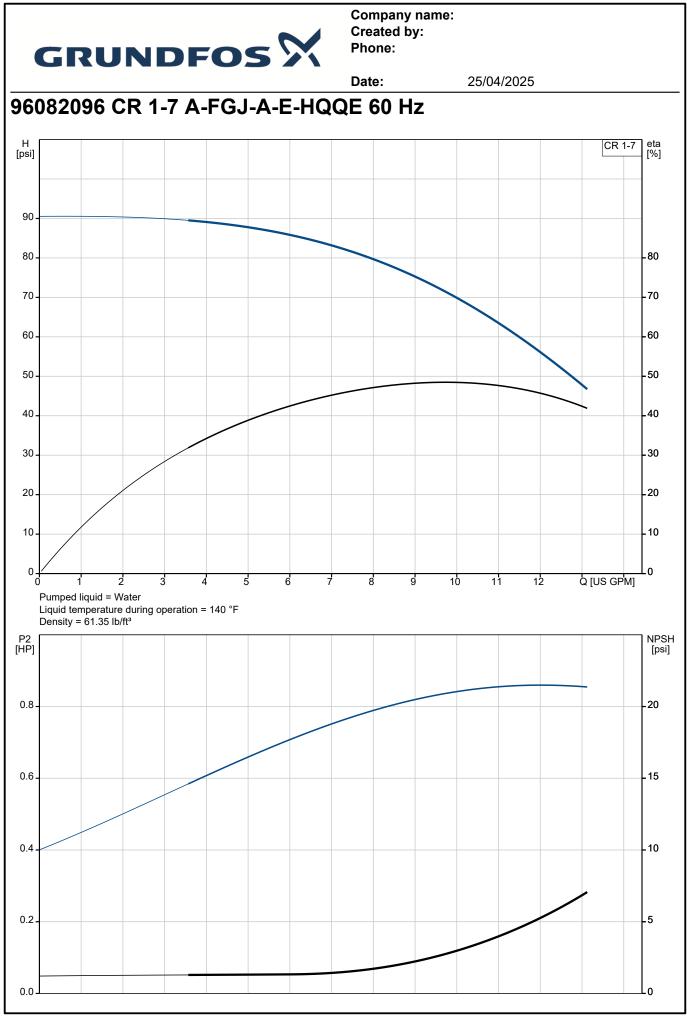


Motor The pump is sold without motor. Technical data

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 248 °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: Approvals for drinking water: Curve tolerance:	are based: 3439 rpm 9.69 US GPM 65.17 psi Vertical Single HQQE HQQE CE NSF/ANSI 61 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:	362.59 psi



			Date:	25/04/2025	
Qty.	Description				
1	Max pressure at stated temp:	363 psi / 250 °F			
		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			
	· ·····g· ·····				
	Electrical data:				
	Motor standard:	NEMA			
	Power (P2) required by pump:	0.75 HP			
	Ormfanlar				
	Controls:	News			
	Frequency converter:	None			
	Others:				
	Net weight:	43.6 lb			
	Gross weight:	54.6 lb			
	Shipping volume:	4.94 ft <sup>3</sup>			
	Country of origin:	US			
	Custom tariff no.:	8413.70.2040			



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		Date:	2:	5/04/2025	)		
Description	Value	H [psi]				CR 1-7	eta [%]
General information:							
Product name:	CR 1-7	90					
	A-FGJ-A-E-HQQE						
Product No:	96082096	80 -					- 80
EAN number:	5700395168341	70 -					70
Technical:		_					
Pump speed on which pump data are based:	3439 rpm	60 <b>-</b> 50 <b>-</b>					- 60 - 50
Rated flow:	9.69 US GPM						
Rated head:	65.17 psi	40 -				· ·	- 40
Maximum head:	87.27 psi	30 -					30
Stages:	7						
Impellers:	7	20/					20
Number of reduced-diameter impellers:	0	10					10
Low NPSH:	N						[
Pump orientation:	Vertical		2 4	6 8	10	Q [US GPM]	Lo
•				0 0	10	Q [US GPM]	
Shaft seal arrangement:	Single		liquid = Water nperature during op	eration = 140 °	=		
Primary shaft seal:	HQQE	Density =	61.35 lb/ft <sup>3</sup>				
Code for shaft seal:	HQQE	P2 [HP]					NPS [psi
Approvals:	CE	[iir]					[psi
Approvals for drinking water:	NSF/ANSI 61	0.8 -					20
Curve tolerance:	ISO9906:2012 3B						
Pump version:	А	0.6					15
Model:	A	0.0					F 13
Materials:							
Base:	Cast iron	0.4					- 10
	EN 1561 EN-GJL-200						
	ASTM A48-25B	0.2					_5
Impeller:	Stainless steel	0.2 <b>-</b>			/		Γ
•	EN 1.4301						
	AISI 304	0.0					Lo
Material code:	A						
Code for rubber:	E						
Bearing:	SIC						
Installation:	010			2			
Maximum operating pressure:	362.59 psi		╔╋╗	-			
Max pressure at stated temp:	363 psi / 250 °F			x 1.06 x 0.79	、 、		
max pressure at stated temp.	-		2	ſ	$\overline{\Lambda}$		
Tune of connection:	363 psi / -4 °F	—   <u> </u>				<b>, ,</b>	
Type of connection:	DIN / ANSI / JIS	_		0.79	E III S	5.50	
Size of inlet connection:	DN 25/32	2.95			No office	са) (1)	
	1 1/4 inch		3.94	* 1	1.26		
Size of outlet connection:	DN 25/32		5.91 9.84		1.26 3.39 7.09	4 x 0.50	
	1 1/4 inch	L	5.07	L -	8.66		
Pressure rating for connection:	PN 25			-	_		
Flange rating inlet:	250 lb						
Flange size for motor:	56C						
Connect code:	FGJ						
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-4 248 °F						
Selected liquid temperature:	140 °F						
Density:	61.35 lb/ft <sup>3</sup>						
Electrical data:							
Motor standard:	NEMA						
Power (P2) required by pump:	0.75 HP						
Controls:							
Frequency converter:	None						
Others:							



		Date:	25/04/2025
Description	Value		
Net weight:	43.6 lb		
Gross weight:	54.6 lb		
Shipping volume:	4.94 ft <sup>3</sup>		
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