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

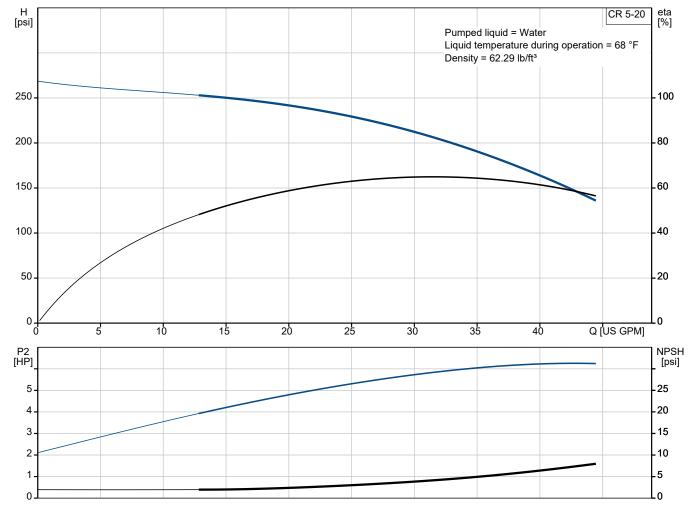
CR 5-20 A-FGJ-A-E-HQQE

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)

Conditions of	Conditions of Service		
Liquid:	Water		Max press
Temperature:	68 °F		Liquid tem
Specific Gravity:	1.000		Shaft seal
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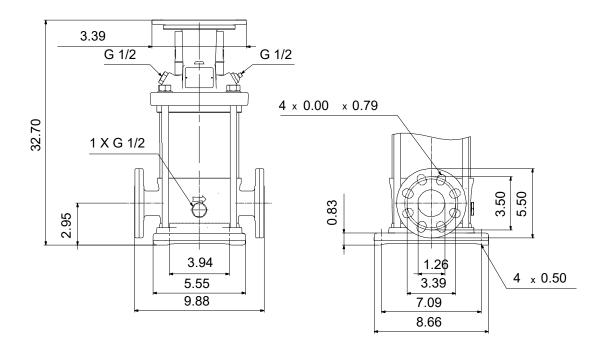
Pump Data	
Max pressure at stated temp:	363 psi / 250 °F
Liquid temperature range:	-4 248 °F
Shaft seal:	HQQE
Product number:	96084247

Motor Data Mains frequency: 60 Hz



1

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:



Date: 01/10/2025

Qty. | Description

1 CR 5-20 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96084247
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.

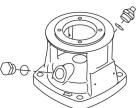
The entire process consists of these elements:

- 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)

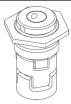
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



Date: 01/10/2025

Qty. | Description

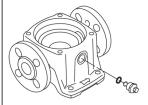
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The shaft seal is screwed into the pump head.

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: Water
Liquid temperature range: -4 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Pump speed on which pump data are based: 3467 rpm

Rated flow: 30.4 US GPM Rated head: 210.7 psi Actual impeller diameter: 2.88 in Pump orientation: Vertical Shaft seal arrangement: Single Primary shaft seal: **HQQE** Code for shaft seal: HQQE Approvals: CE

Approvals for drinking water: NSF/ANSI 61
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B Stainless steel

Impeller: Stainless stee EN 1.4301

AISI 304

Bearing: SIC

Installation:



Date: 01/10/2025

Qty. | Description

1 Maximum operating pressure: 362.59 psi 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

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: 213TC

Electrical data:

Motor standard: NEMA
Power (P2) required by pump: 7.5 HP

Controls:

Frequency converter: None

Others:

DOE Pump Energy Index CL: 0.89

Net weight: 73.3 lb

Gross weight: 91.2 lb

Shipping volume: 8.26 ft³

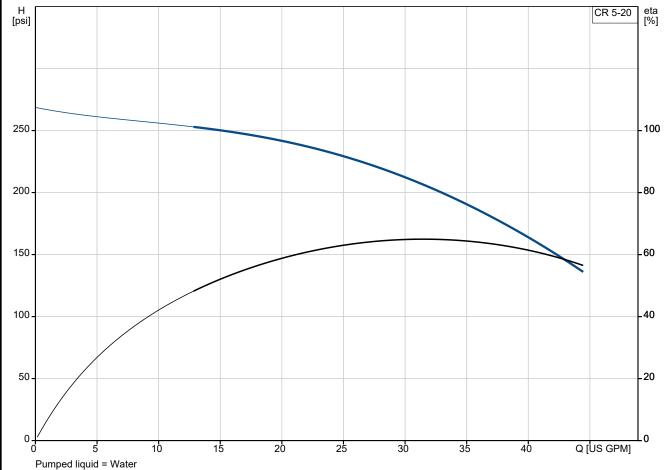
Country of origin: US

Custom tariff no.: 8413.70.2040

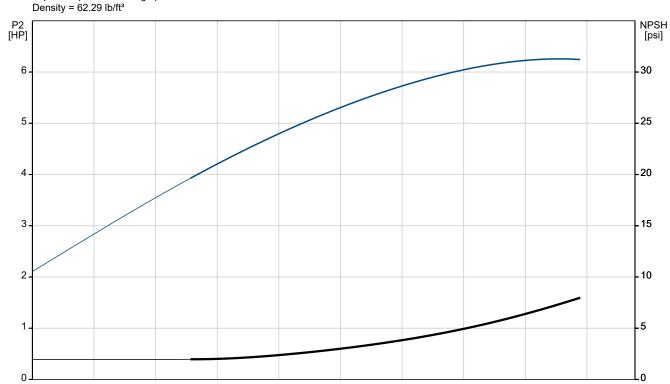


Date: 01/10/2025

96084247 CR 5-20 A-FGJ-A-E-HQQE 60 Hz



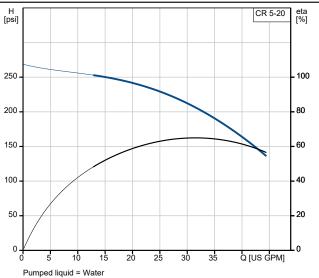
Pumped liquid = Water Liquid temperature during operation = 68 °F



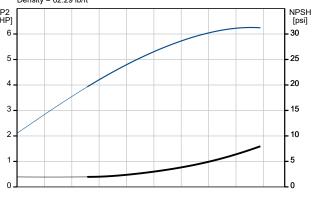


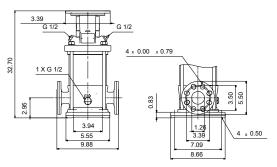
Date: 01/10/2025

Description	Value
General information:	00.500
Product name:	CR 5-20 A-FGJ-A-E-HQQE
Product No:	96084247
EAN number:	5700395190854
Technical:	0700000100004
Pump speed on which pump data are	0.407
based:	3467 rpm
Rated flow:	30.4 US GPM
Rated head:	210.7 psi
Maximum head:	282.3 psi
Actual impeller diameter:	2.88 in
Stages:	20
Impellers:	20
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Primary shaft seal:	HQQE
Code for shaft seal:	HQQE
Approvals:	CE
Approvals. Approvals for drinking water:	NSF/ANSI 61
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	^
Base:	Cast iron
Dase.	EN 1561 EN-GJL-200
	ASTM A48-25B
Impollor	Stainless steel
Impeller:	EN 1.4301
	AISI 304
Material code:	
	A
Code for rubber:	E
Bearing: Installation:	SIC
	000.50!
Maximum operating pressure:	362.59 psi
Max pressure at stated temp:	363 psi / 250 °F
Towns of sources?	363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
0	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:	213TC
Connect code:	FGJ
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 248 °F
Selected liquid temperature:	68 °F
	62.29 lb/ft ³
Density:	
Electrical data:	
-	NEMA
Electrical data: Motor standard:	NEMA 7.5 HP
Electrical data:	



Pumped liquid = Water Liquid temperature during operation = 68 °F Density = 62.29 lb/ft³







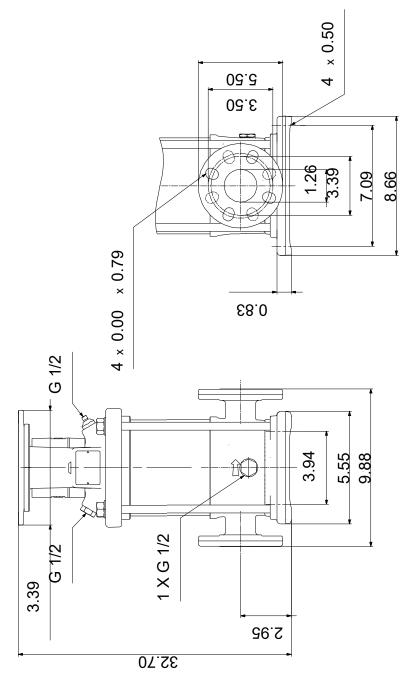
Date: 01/10/2025

Description	Value
Others:	
DOE Pump Energy Index CL:	0.89
Net weight:	73.3 lb
Gross weight:	91.2 lb
Shipping volume:	8.26 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040



01/10/2025 Date:

96084247 CR 5-20 A-FGJ-A-E-HQQE 60 Hz



Note! All units are in [in] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 01/10/2025

Spare parts CR 5-20, Product No. 96084247 Produced After 0401 (production year and week number)

	Pos		otation	Classification Data	Part no.	Qty.	Uni
•		Kit, Chamber stack			96453591	1	pcs
+	80	Chamber stack				1	pcs
		Kit, Coupling			96478700	1	pcs
	9	Hex socket head cap screw				4	pcs
	10a	Coupling				1	pcs
	10	Shaft pin				1	pcs
		Kit, Coupling guard			96505132	1	pcs
	7a	Combi Slot Torx screw				4	pcs
	7	Coupling guard				2	pcs
		Kit, Gaskets			96455090	1	pcs
	37	O-ring				2	pcs
	38	O-ring				3	pcs
	109	O-ring				1	pcs
		Kit, Plug			96511103	1	pcs
+	18	Air vent screw cpl.			00011100	1	pcs
_	23b	Spindle				1	
		•					pcs
	25	Plug				1	pcs
	25a	Pipe plug				1	pcs
	25	Drain plug				1	pcs
	38	O-ring				3	pcs
	38	O-ring				1	pcs
	38	O-ring				3	pcs
	38	O-ring				1	pcs
		Kit, Shaft seal HQQE			96455086	1	pcs
	105	Shaft seal				1	pcs
		Kit, Wear parts			96455099	1	pcs
+	4a	Chamber w. bearing cpl.				4	pcs
	39	Gasket				2	pcs
	45	Neck ring				1	pcs
	47a	Bearing ring				4	pcs
	47	Bearing bush				1	pcs
	64c	Clamp				1	pcs
	64a	Spacing pipe				4	pcs
	65	Retainer				1	pcs
	65	Neck ring retainer				1	pcs
	66	Wedge lock washer				1	•
		Lock nut				1	pcs
	67				00420464		pcs
	1	Adapter flange			99430461	1	pcs
	2a	Pump head			99852890		pcs
	6	Base			96588146		pcs
	7a	Bulk, Combi Slot Torx screw (1000 PC)			96886324		pcs
+	18	Bulk, Air vent screw cpl. (5 PC)			96547461		pcs
+	18	Air vent screw cpl.			95061351		pcs
	25a	Priming valve cpl.			96588242	1	pcs
	38	Bulk, O-ring (10 PC)			99198815	1	pcs
	38	Bulk, O-ring (50 PC)			99412727	1	pcs
	25	Drain plug			93431312	1	pcs
	26	Bulk, Staybolt (4 PC)			98698639	4	pcs
	26	Staybolt			98986334		pcs
	32	Bulk, Flat Washer (10 PC)			99883474		pcs
	36	Bulk, Hex socket head cap screw (20 PC)			96620479		pcs
	37	Bulk, O-ring (24 PC)					
		- · · · · · · · · · · · · · · · · · · ·			96547656		pcs
	38	Bulk, O-ring (10 PC)			99198815	2	pcs



Date: 01/10/2025

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
38	Bulk, O-ring (50 PC)			99412727	2	pcs
55	Outer sleeve			98811262	1	pcs
60	Formed wire spring			96547664	1	pcs
105	Bulk, Shaft seal (10 PC)			92897461	1	pcs
105	Bulk, Shaft seal (15 PC)			96983415	1	pcs