Submittal Data

60 Hz

- 10

. 5 0

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



Note! Product picture may differ from actual product

1.0

0.5

CR 5-7 A-B-A-E-HQQE

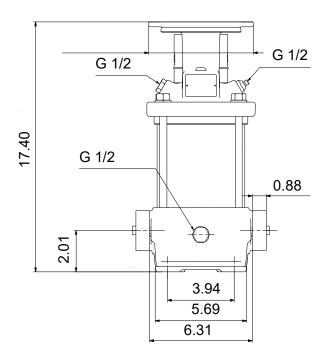
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

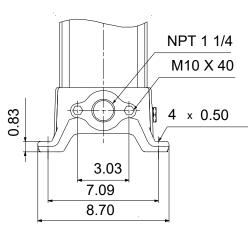
Conditions	of Service	Pump Data		Motor Data	а
Liquid:	Water	Max pressure at stated temp:	232 psi / 250 °F	Mains frequency:	_
Temperature:	68 °F	Liquid temperature range:	-4 248 °F		
Specific Gravity:	1.000	Shaft seal:	HQQE		
		Product number:	97741977		

CR 5-7 [psi] Pumped liquid = Water Liquid temperature during operation = 68 °F 110 Density = 62.29 lb/ft³ 100 100 90 90 80 .80 .70 70 60 -60 50 .50 40 40 30 30 .20 20 10 10 Q [US GPM] 20 P2 [HP] NPSH [psi] 2.0 .20 1.5 . 15

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: E



Date: 28/05/2025

Qty. | Description

1 | CR 5-7 A-B-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 97741977
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.

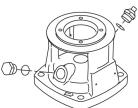
The entire process consists of these elements:

- 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: EPDM (ethylene-propylene rubber)

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



Date: 28/05/2025

Qty. | Description

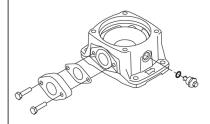
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The shaft seal is screwed into the pump head.

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 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical

Pump speed on which pump data are based: 3452 rpm

Rated flow: 30.4 US GPM Rated head: 73.69 psi Actual impeller diameter: 2.88 in Pump orientation: Vertical Shaft seal arrangement: Single **HQQE** Primary shaft seal: 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: 28/05/2025

Qty. | Description

1 Maximum operating pressure: 232.06 psi Max pressure at stated temp: 232 psi / 250 °F

232 psi / -4 °F

Type of connection: Oval / NPT(F)
Size of inlet connection: 1 1/4 inch
Size of outlet connection: 1 1/4 inch
Pressure rating for connection: PN 16
Flange size for motor: 182TC

Electrical data:

Motor standard: NEMA

Controls:

Frequency converter: None

Others:

DOE Pump Energy Index CL: 0.89

Net weight: 41.2 lb

Gross weight: 55.8 lb

Shipping volume: 4.94 ft³

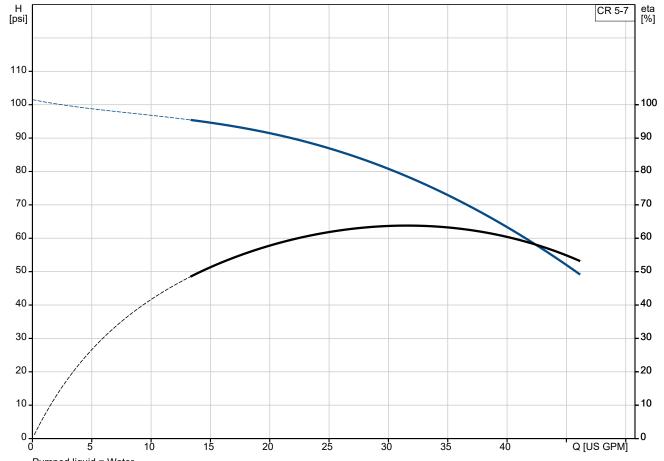
Country of origin: US

Custom tariff no.: 8413.70.2040

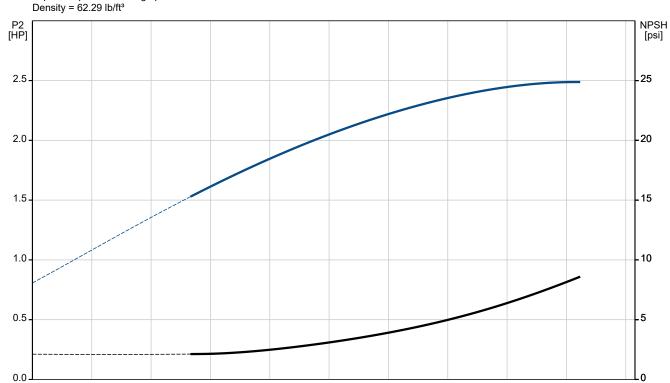


Date: 28/05/2025

97741977 CR 5-7 A-B-A-E-HQQE 60 Hz



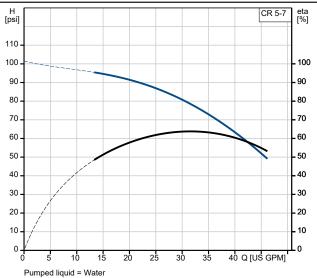
Pumped liquid = Water Liquid temperature during operation = 68 °F



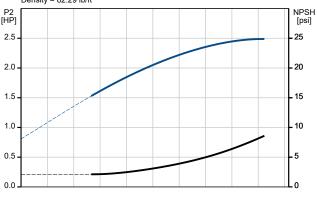


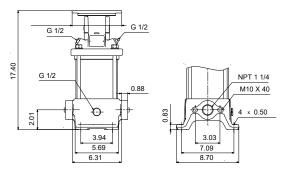
Date: 28/05/2025

Description	Value	
General information:		
Product name:	CR 5-7 A-B-A-E-HQQE	
Product No:	97741977	
EAN number:	5710623550374	
Technical:		
Pump speed on which pump data are based:	3452 rpm	
Rated flow:	30.4 US GPM	
Rated head:	73.69 psi	
Maximum head:	101.8 psi	
Actual impeller diameter:	2.88 in	
Stages:	7	
Impellers:	7	
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 for drinking water:	NSF/ANSI 61	
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:	E	
Bearing:	SIC	
Installation:		
Maximum operating pressure:	232.06 psi	
Max pressure at stated temp:	232 psi / 250 °F	
	232 psi / -4 °F	
Type of connection:	Oval / NPT(F)	
Size of inlet connection:	1 1/4 inch	
Size of outlet connection:	1 1/4 inch	
Pressure rating for connection:	PN 16	
Flange size for motor:	182TC	
Connect code:	В	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-4 248 °F	
Selected liquid temperature:	68 °F	
Density:	62.29 lb/ft³	
Electrical data:	·w···	
Motor standard:	NEMA	
Controls:		
Frequency converter:	None	
Others:	INOTIC	
	0.89	
DOE Pump Energy Index CL:		
Net weight: Gross weight:	41.2 lb 55.8 lb	



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







Date: 28/05/2025

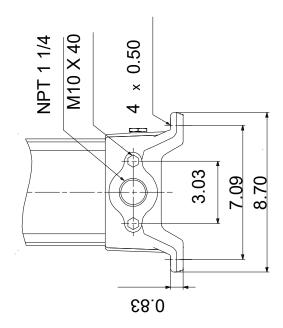
Description	Value
Shipping volume:	4.94 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040

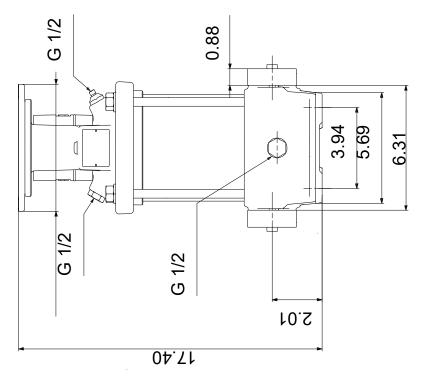


Date:

28/05/2025

97741977 CR 5-7 A-B-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.