

Submittal Data

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

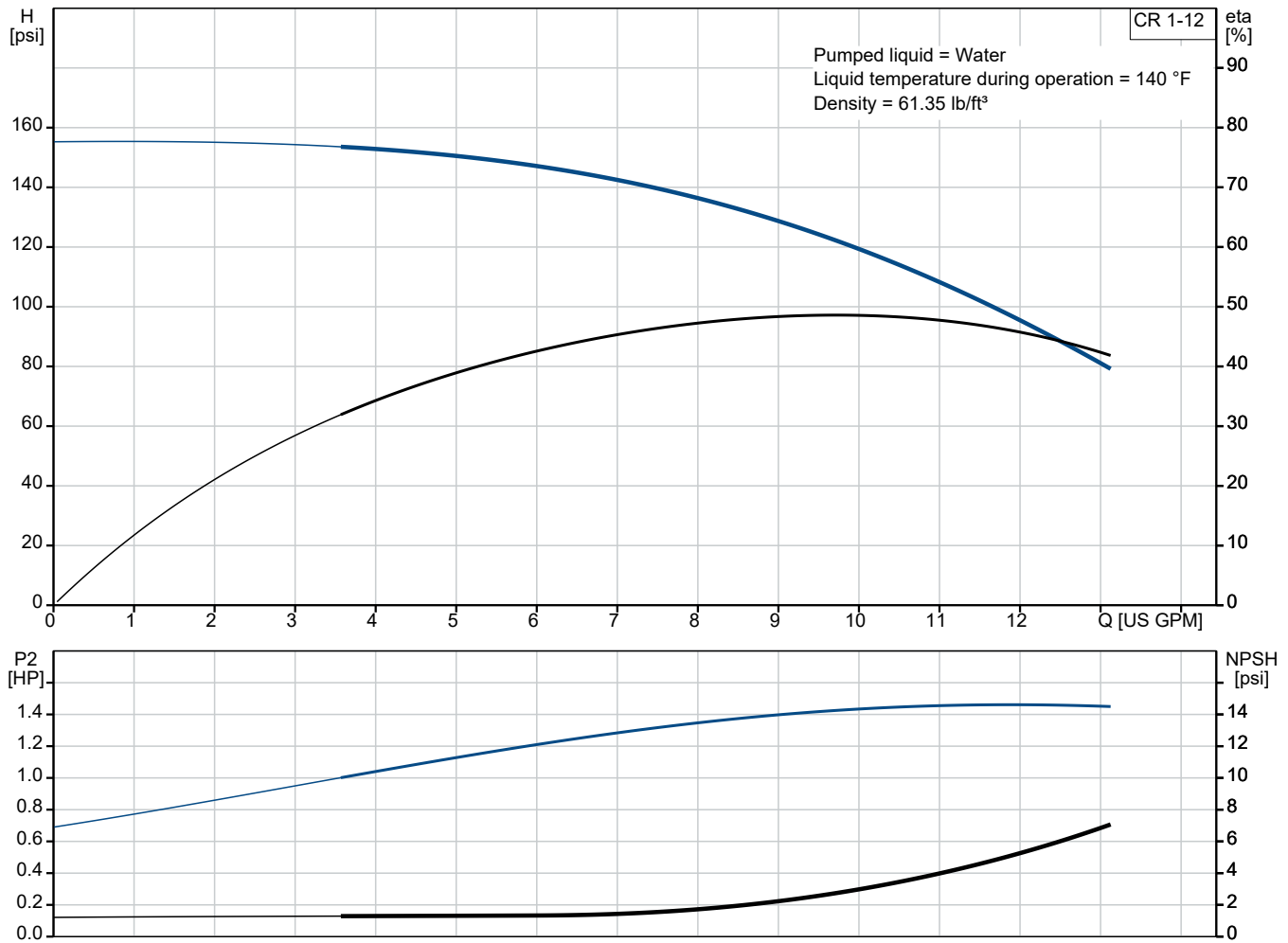


CR 1-12 A-B-A-E-HQQE

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)

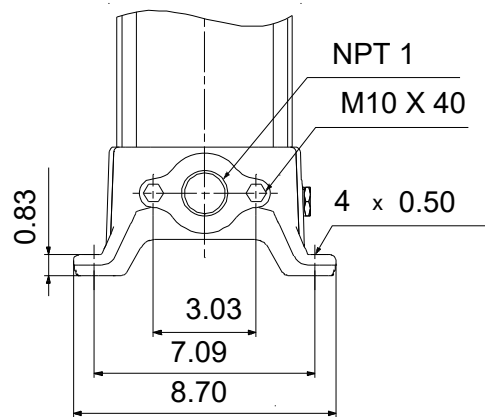
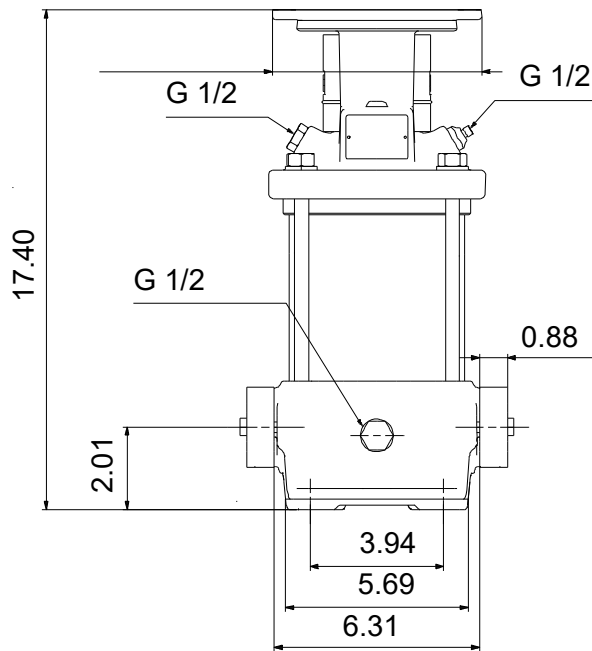
Note! Product picture may differ from actual product

Conditions of Service	Pump Data	Motor Data
Liquid: Water	Max pressure at stated temp: 232 psi / 250 °F	Mains frequency: 60 Hz
Temperature: 140 °F	Liquid temperature range: -4 .. 248 °F	
Specific Gravity: 0.985	Shaft seal: HQQE	
	Product number: 96081961	





## 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



**Qty. Description**

1 CR 1-12 A-B-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96081961

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.

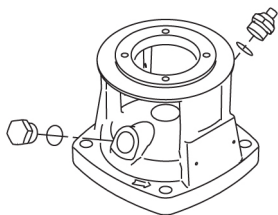
The entire process consists of these elements:

- 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.

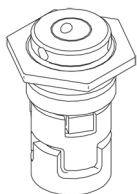
Secondary seal material: EPDM (ethylene-propylene rubber)

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



Qty.	Description
------	-------------

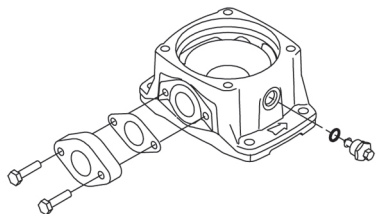
1	 <p>The shaft seal is screwed into the pump head.</p> <p>The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.</p> <p>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.</p>  <p><b>Motor</b></p> <p>The pump is sold without motor.</p> <p><b>Technical data</b></p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -4 .. 248 °F</p> <p>Selected liquid temperature: 140 °F</p> <p>Density: 61.35 lb/ft³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 3466 rpm</p> <p>Rated flow: 9.69 US GPM</p> <p>Rated head: 112.7 psi</p> <p>Pump orientation: Vertical</p> <p>Shaft seal arrangement: Single</p> <p>Primary shaft seal: HQQE</p> <p>Code for shaft seal: HQQE</p> <p>Approvals: CE</p> <p>Approvals for drinking water: NSF/ANSI 61</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p>Bearing: SIC</p> <p>Installation:</p> <p>Maximum operating pressure: 232.06 psi</p>
---	---



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: 140 °F

Density: 61.35 lb/ft³

### Technical:

Pump speed on which pump data are based: 3466 rpm

Rated flow: 9.69 US GPM

Rated head: 112.7 psi

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

Impeller: Stainless steel  
EN 1.4301  
AISI 304

Bearing: SIC

### Installation:

Maximum operating pressure: 232.06 psi





Company name:

Created by:

Phone:

Date:

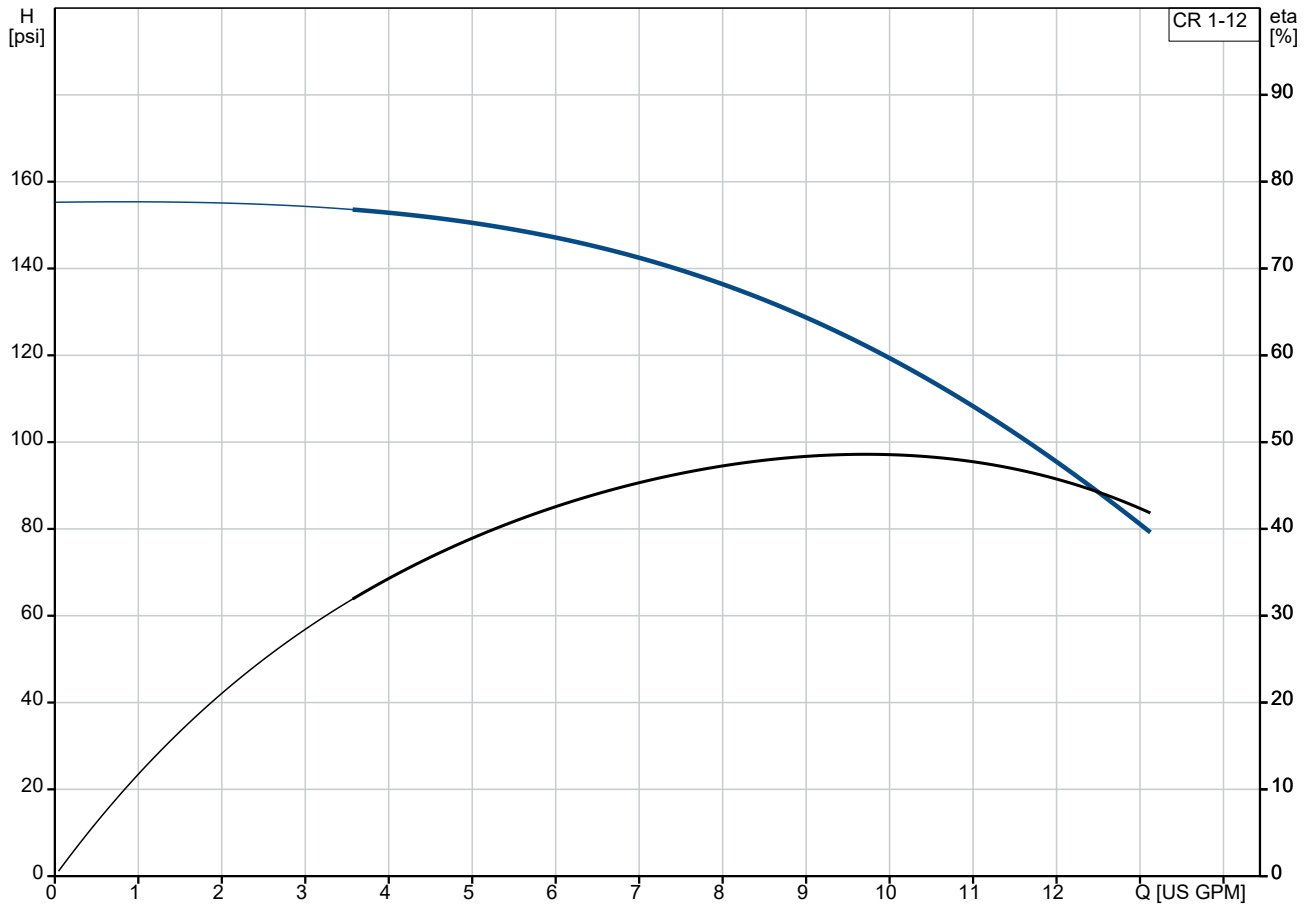
23/04/2025

Qty.	Description
------	-------------

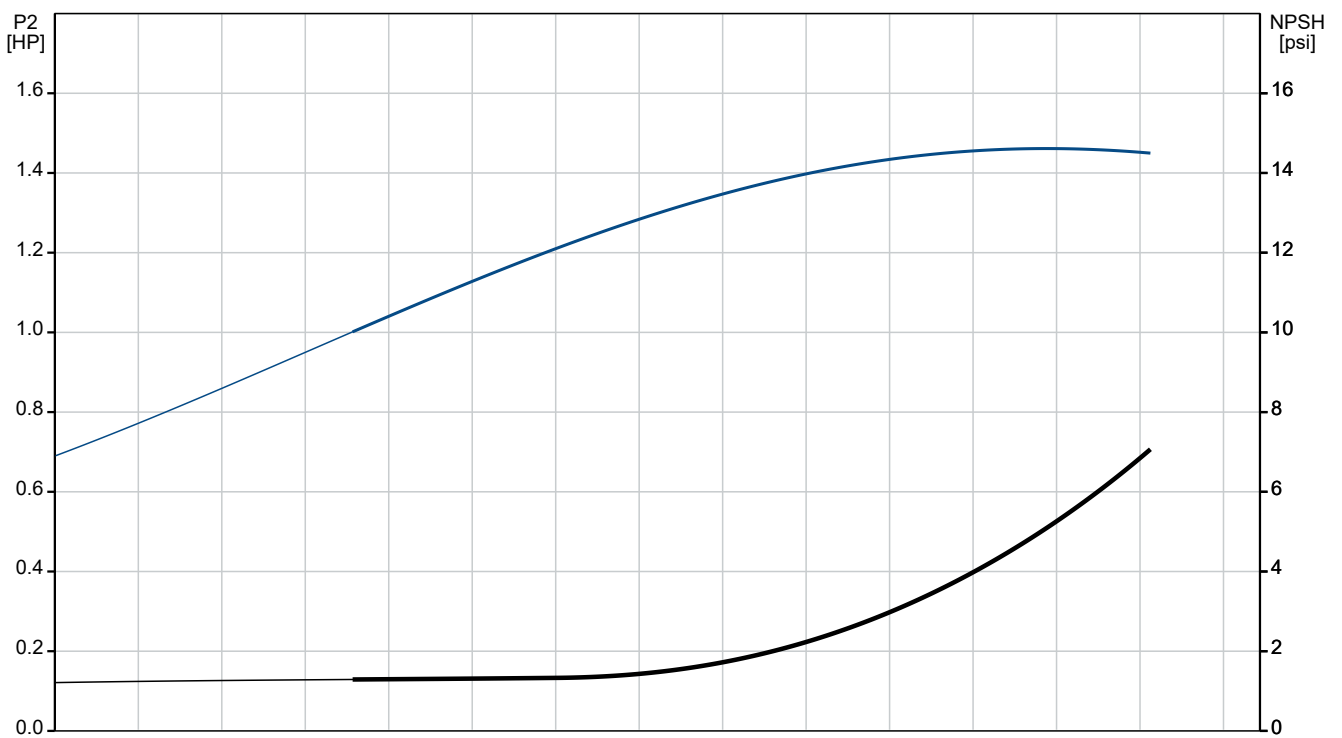
1	Max pressure at stated temp: 232 psi / 250 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of inlet connection: 1 inch Size of outlet connection: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C  Electrical data: Motor standard: NEMA Power (P2) required by pump: 1.5 HP  Controls: Frequency converter: None  Others: Net weight: 38.1 lb Gross weight: 52.6 lb Shipping volume: 4.94 ft³ Country of origin: US Custom tariff no.: 8413.70.2040
---	--



## 96081961 CR 1-12 A-B-A-E-HQQE 60 Hz

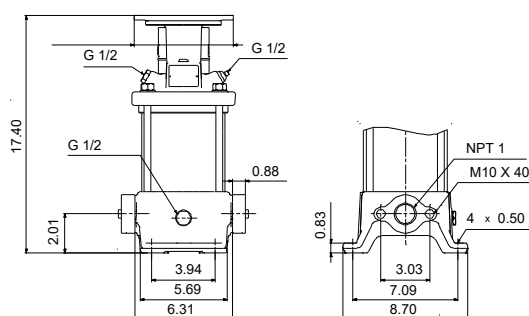
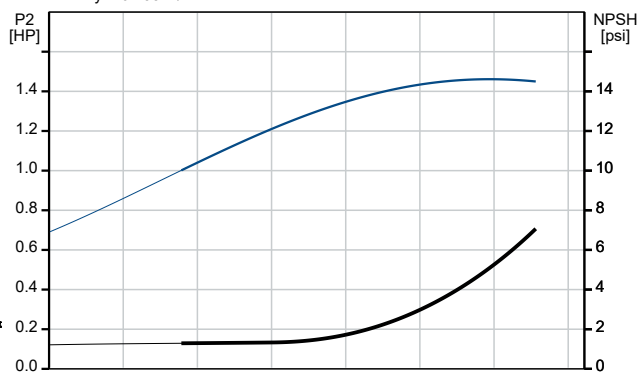
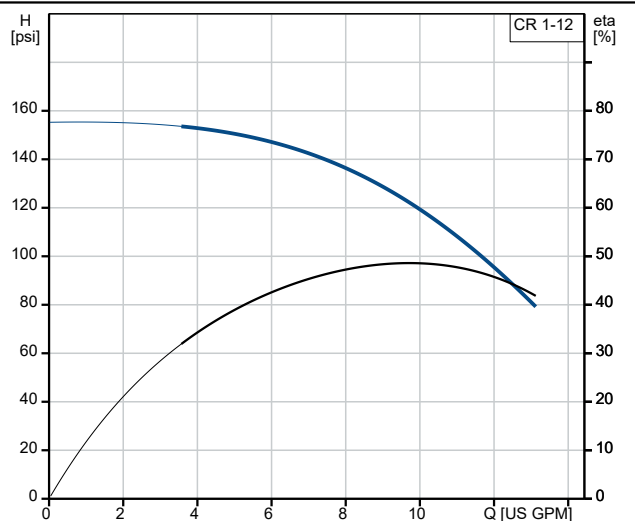


Pumped liquid = Water  
 Liquid temperature during operation = 140 °F  
 Density = 61.35 lb/ft³





Description	Value
<b>General information:</b>	
Product name:	CR 1-12 A-B-A-E-HQQE
Product No:	96081961
EAN number:	5700395166996
<b>Technical:</b>	
Pump speed on which pump data are based:	3466 rpm
Rated flow:	9.69 US GPM
Rated head:	112.7 psi
Maximum head:	150.1 psi
Stages:	12
Impellers:	12
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:	A
Model:	A
<b>Materials:</b>	
Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B
Impeller:	Stainless steel EN 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
<b>Installation:</b>	
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 inch
Size of outlet connection:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	56C
Connect code:	B
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft³
<b>Electrical data:</b>	
Motor standard:	NEMA
Power (P2) required by pump:	1.5 HP
<b>Controls:</b>	
Frequency converter:	None
<b>Others:</b>	
Net weight:	38.1 lb
Gross weight:	52.6 lb
Shipping volume:	4.94 ft³







Company name:

Created by:

Phone:

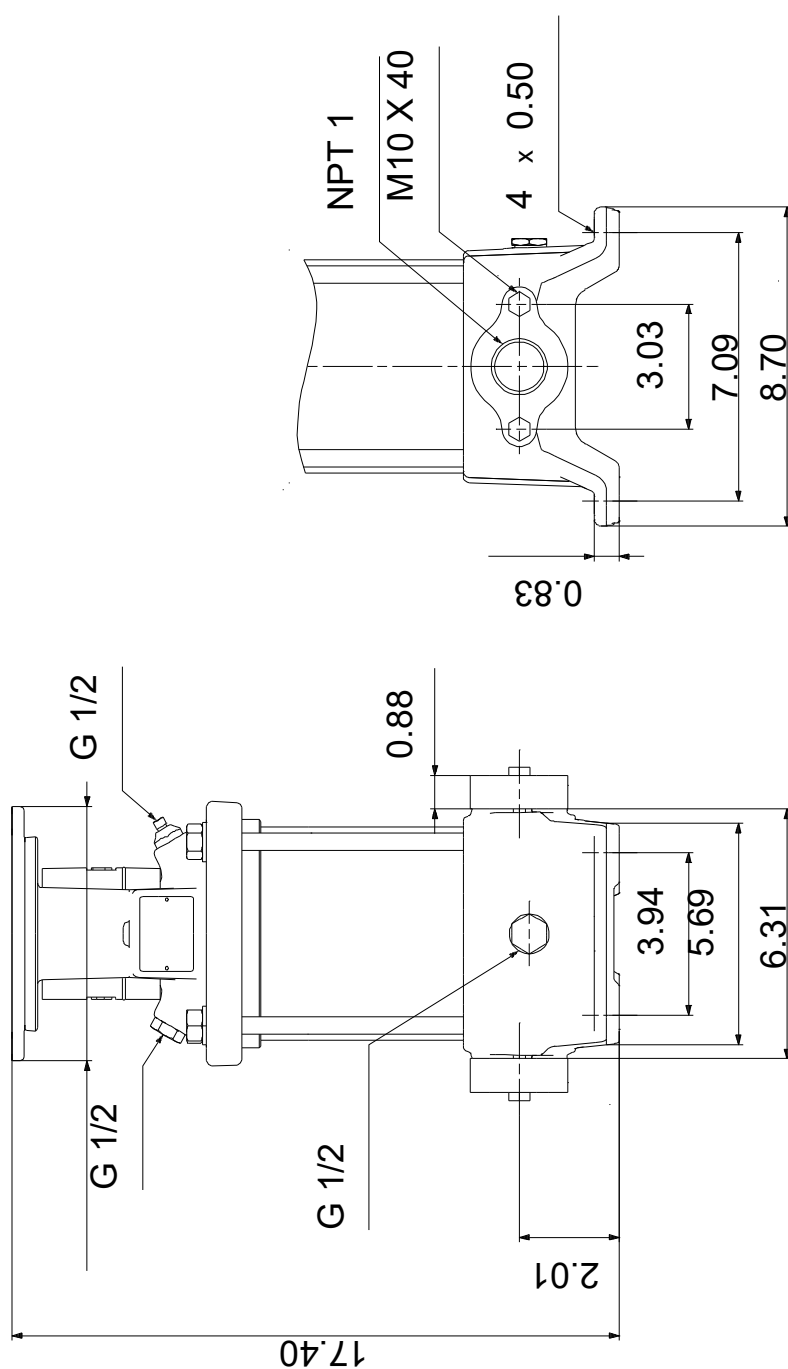
Date:

23/04/2025

Description	Value
Country of origin:	US
Custom tariff no.:	8413.70.2040



## 96081961 CR 1-12 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.