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

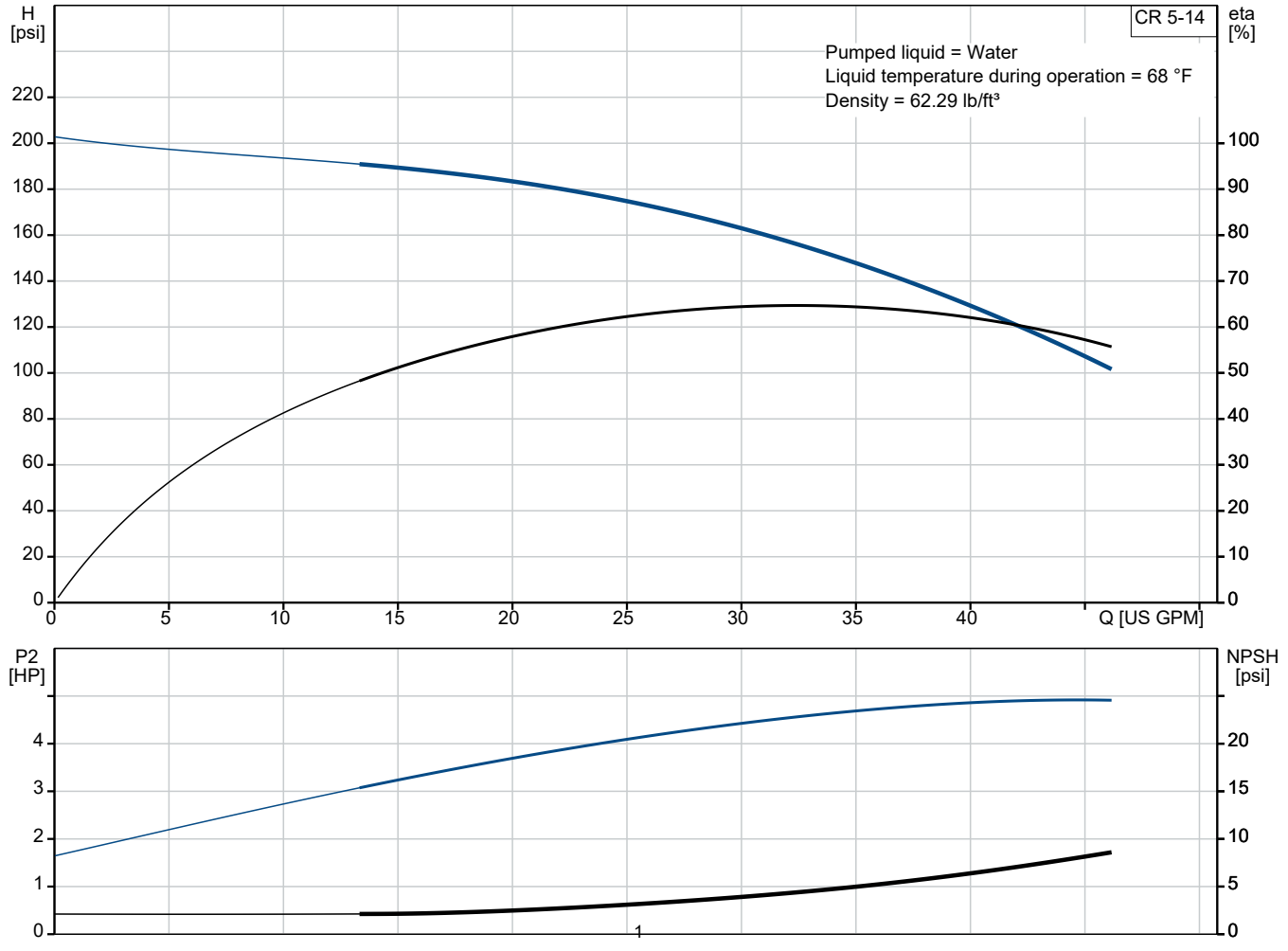
CR 5-14 A-B-A-V-HQQV

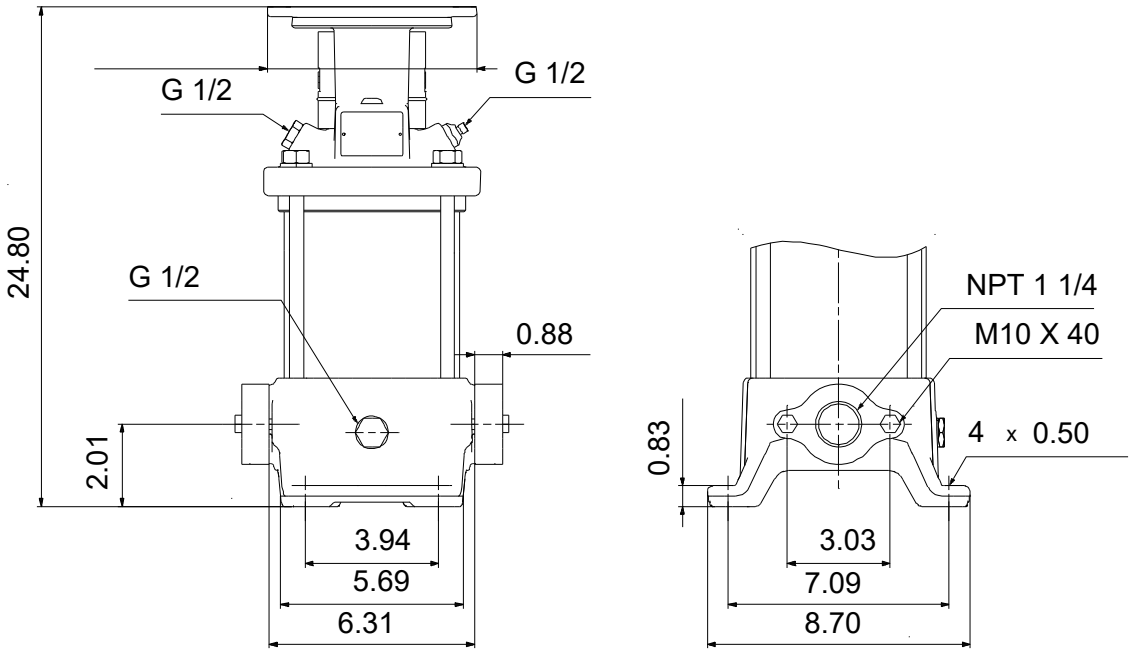
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Conditions of Service	
Liquid:	Water
Temperature:	68 °F
Specific Gravity:	1.000

Pump Data	
Max pressure at stated temp:	232 psi / 194 °F
Liquid temperature range:	-4 .. 194 °F
Shaft seal:	HQQV
Product number:	96084168

Motor Data	
Mains frequency:	60 Hz





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:	V

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Qty.	Description
1	**CR 5-14 A-B-A-V-HQQV**

Note! Product picture may differ from actual product

Product No.: 96084168
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.

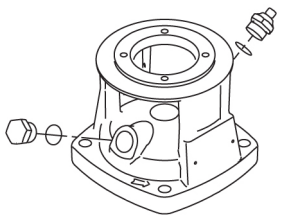
The entire process consists of these elements:

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.

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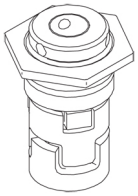
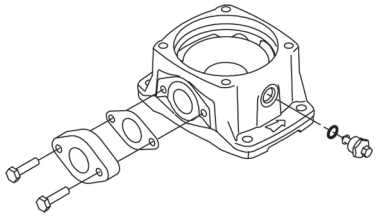
Qty.	Description
1	Secondary seal material: FKM (fluorocarbon rubber) FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



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 .. 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³

Technical:

Pump speed on which pump data are based:	3461 rpm
Rated flow:	30.4 US GPM
Rated head:	146.5 psi
Actual impeller diameter:	2.88 in
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Primary shaft seal:	HQQV
Code for shaft seal:	HQQV
Approvals:	CE
Curve tolerance:	ISO9906:2012 3B

Materials:

Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B
Impeller:	Stainless steel

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Qty.	Description	
1		EN 1.4301
		AISI 304
	Bearing:	SIC
	Installation:	
	Maximum operating pressure:	232.06 psi
	Max pressure at stated temp:	232 psi / 194 °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
	Power (P2) required by pump:	5 HP
	Controls:	
	Frequency converter:	None
	Others:	
	DOE Pump Energy Index CL:	0.89
	Net weight:	50.5 lb
	Gross weight:	68.4 lb
	Shipping volume:	6.11 ft³

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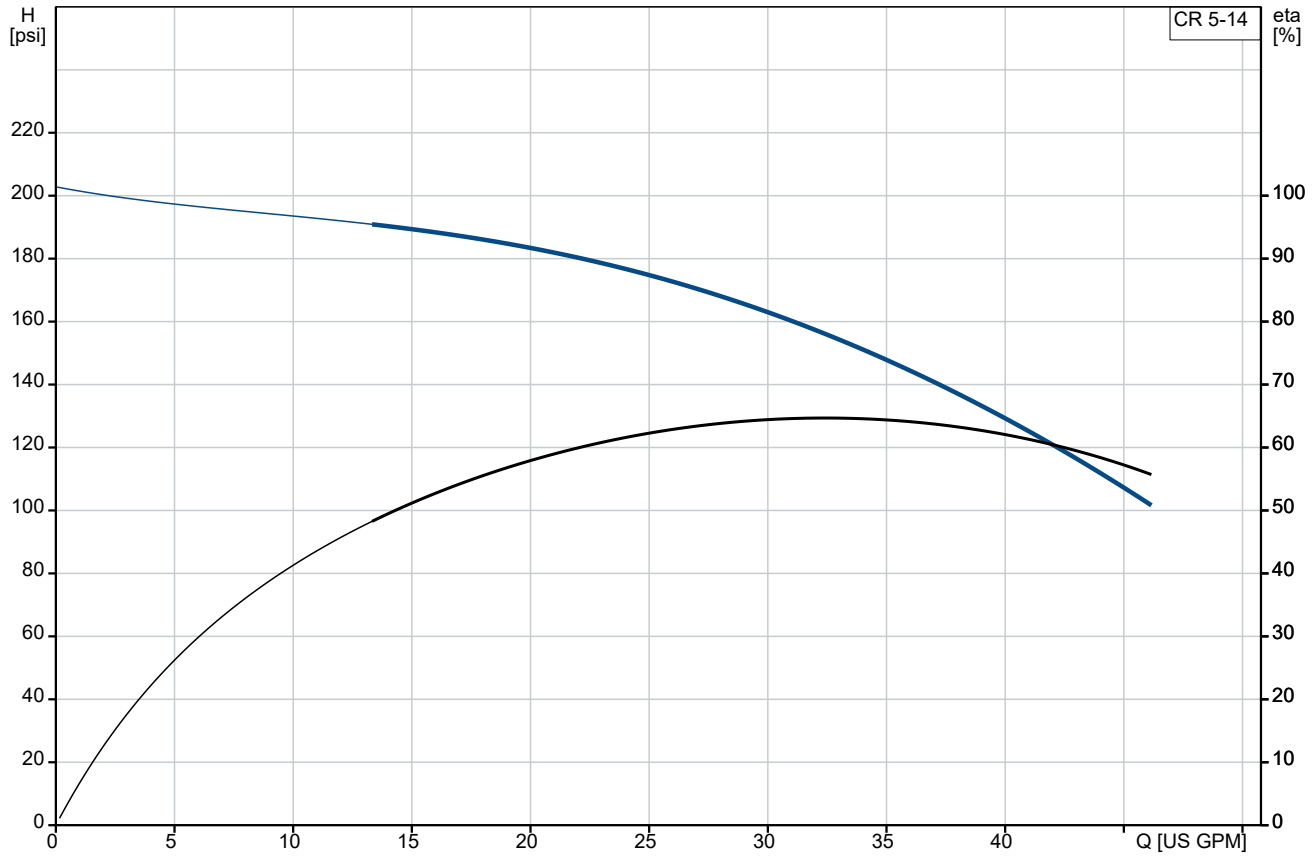
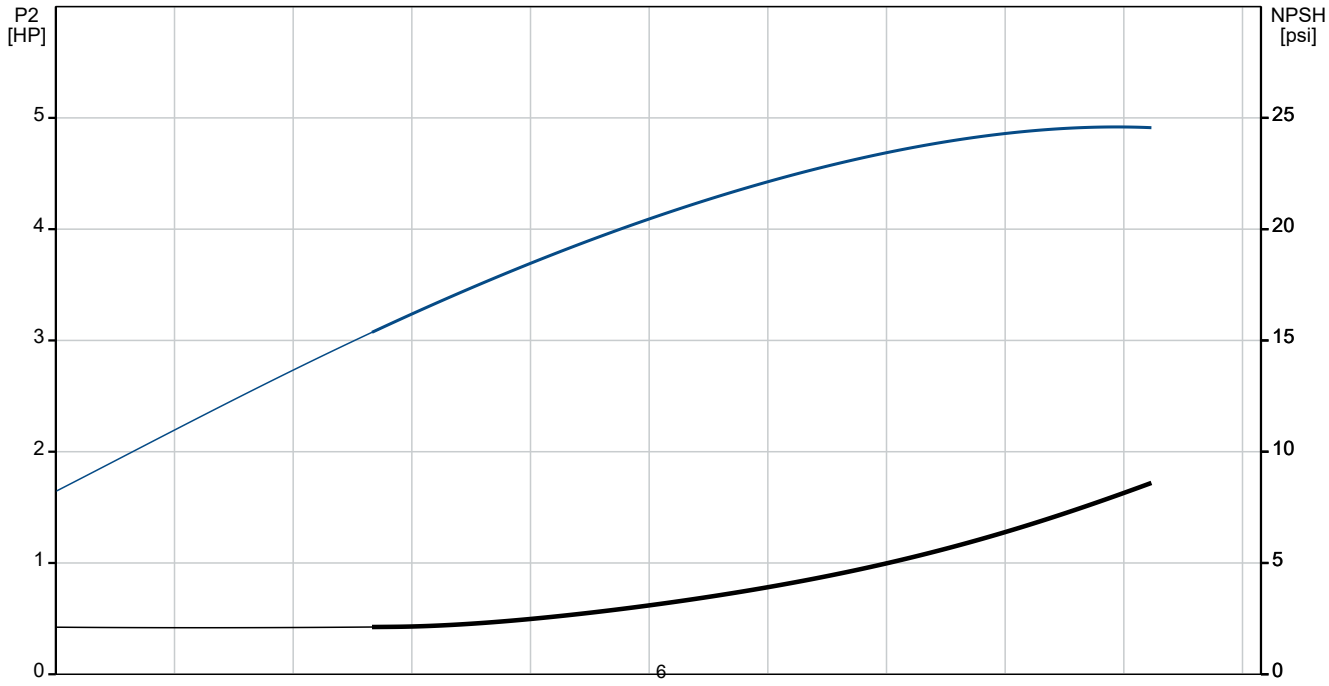
96084168 CR 5-14 A-B-A-V-HQQV 60 Hz



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



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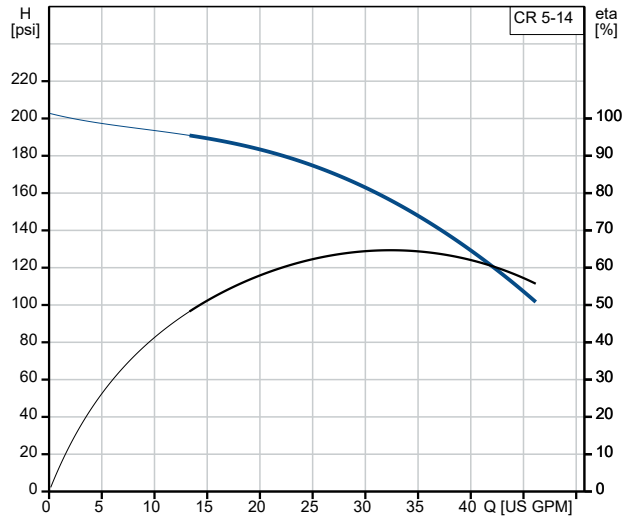
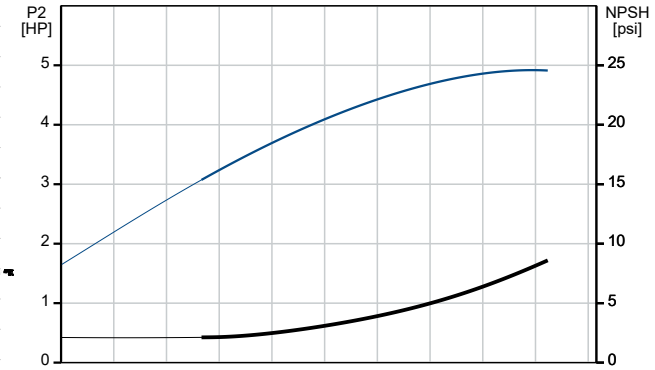
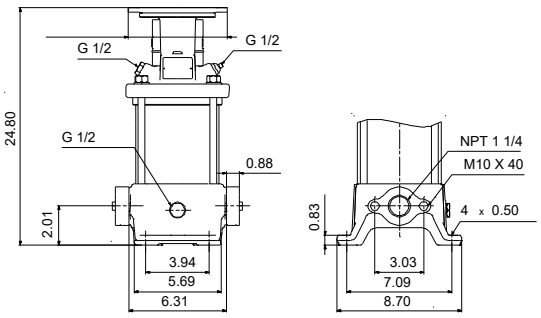
Description	Value
General information:	
Product name:	CR 5-14 A-B-A-V-HQQV
Product No:	96084168
EAN number:	5700395190069
Technical:	
Pump speed on which pump data are based:	3461 rpm
Rated flow:	30.4 US GPM
Rated head:	146.5 psi
Maximum head:	197.4 psi
Actual impeller diameter:	2.88 in
Stages:	14
Impellers:	14
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Primary shaft seal:	HQQV
Code for shaft seal:	HQQV
Approvals:	CE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
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:	V
Bearing:	SIC
Installation:	
Maximum operating pressure:	232.06 psi
Max pressure at stated temp:	232 psi / 194 °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:	B
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor standard:	NEMA
Power (P2) required by pump:	5 HP
Controls:	
Frequency converter:	None
Others:	



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





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Description	Value
DOE Pump Energy Index CL:	0.89
Net weight:	50.5 lb
Gross weight:	68.4 lb
Shipping volume:	6.11 ft³

GRUNDFOS

Company name:
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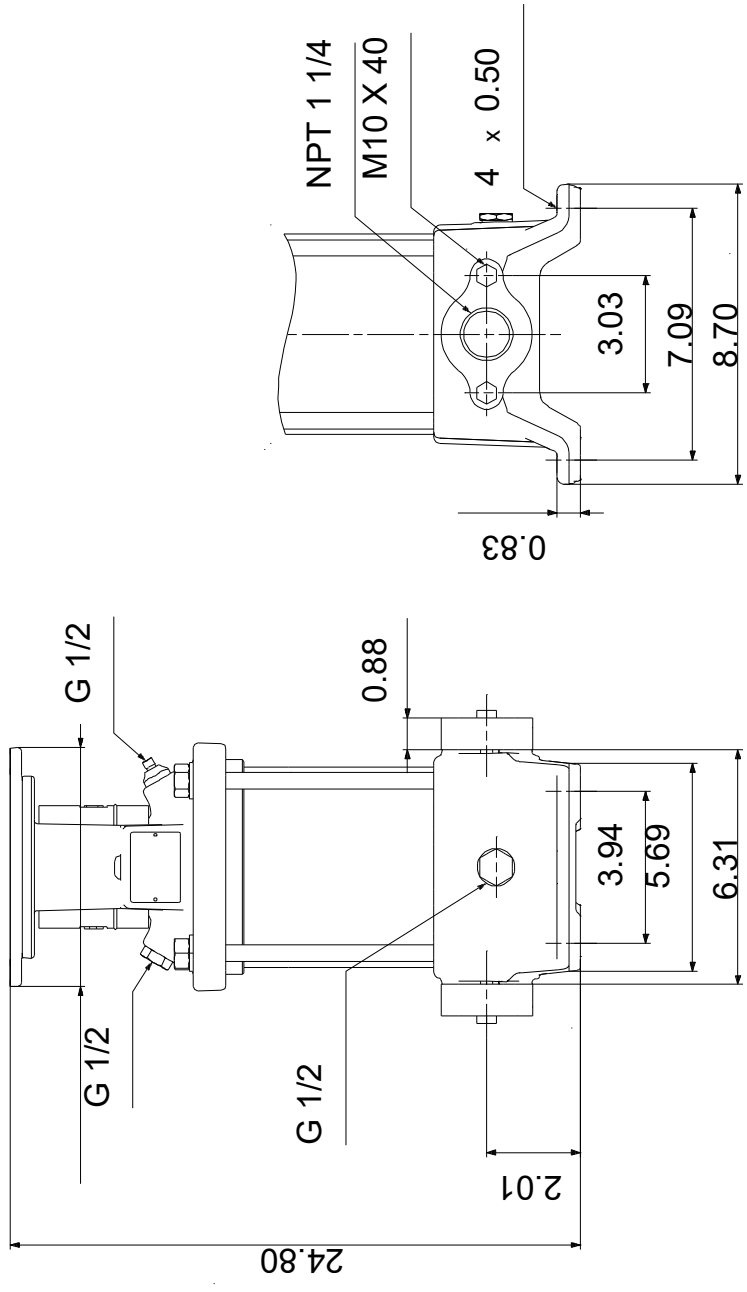
96084168 CR 5-14 A-B-A-V-HQQV 60 Hz



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