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

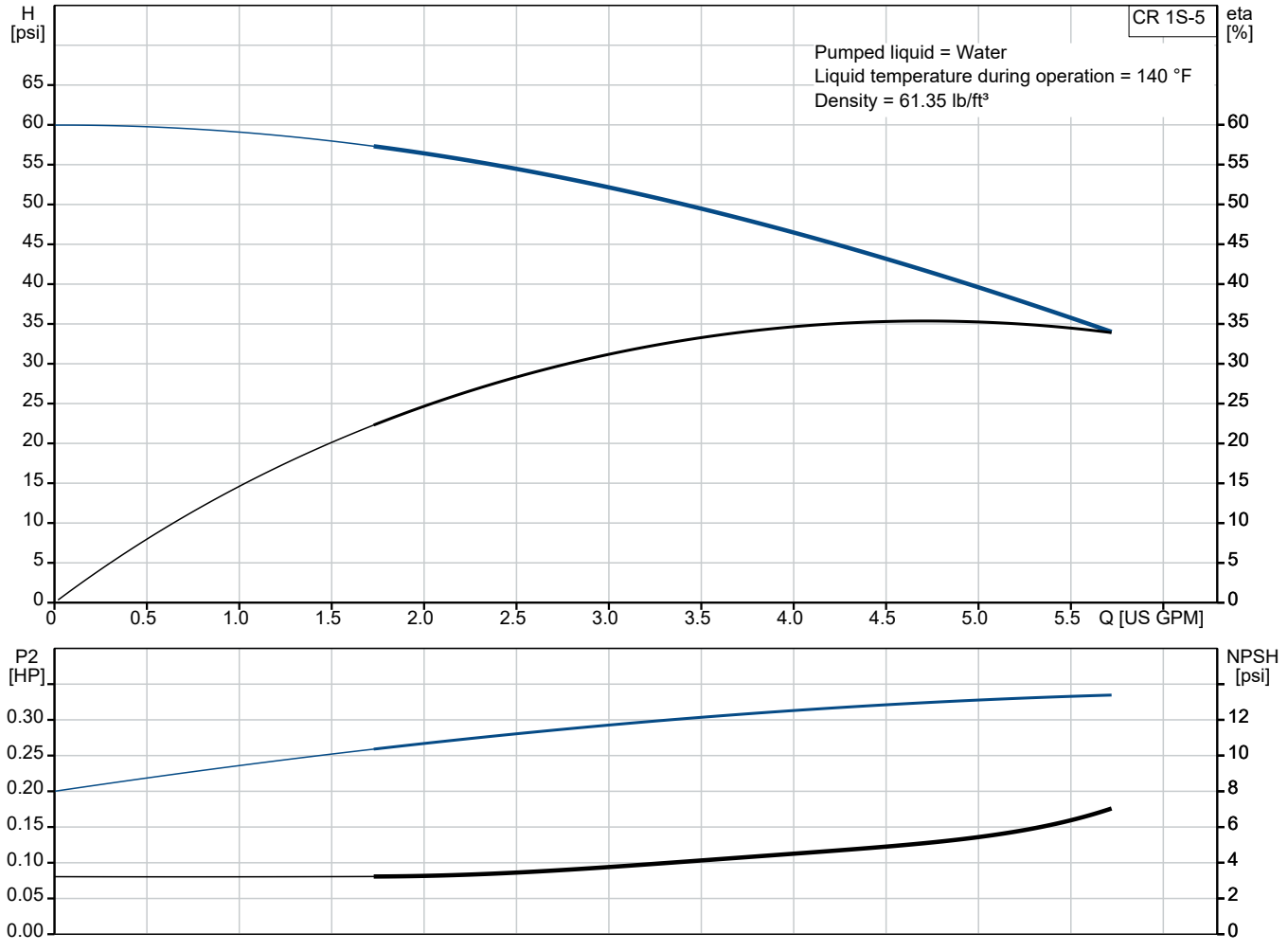
CR 1S-5 A-B-A-V-HQQV

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)

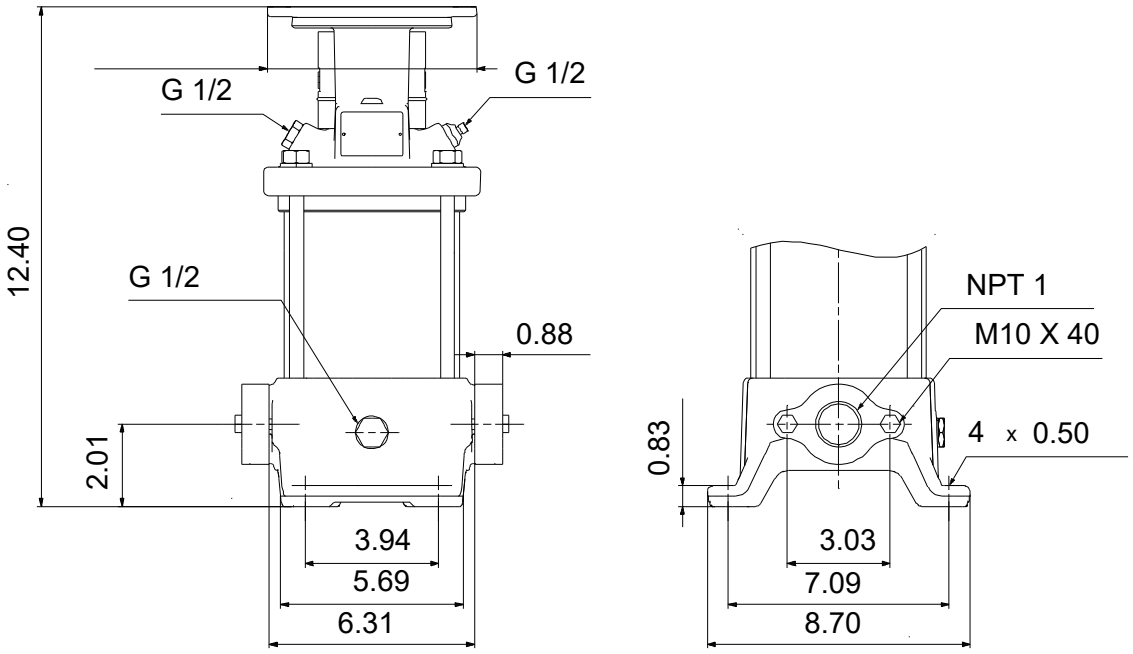
Conditions of Service	
Liquid:	Water
Temperature:	140 °F
Specific Gravity:	0.985

Pump Data	
Max pressure at stated temp:	232 psi / 194 °F
Liquid temperature range:	-4 .. 194 °F
Shaft seal:	HQQV
Product number:	96080934

Motor Data	
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:	A
Code for rubber:	V

GRUNDFOS

Company name:
Created by:
Phone:

Date: 07/04/2025

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

Note! Product picture may differ from actual product

Product No.: 96080934
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. 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.

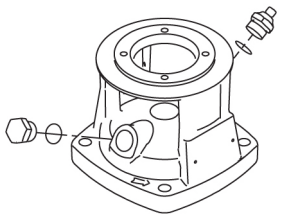
The entire process consists of these elements:

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: FKM (fluorocarbon rubber)

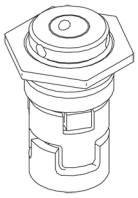
FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.

GRUNDFOS

Company name:
Created by:
Phone:

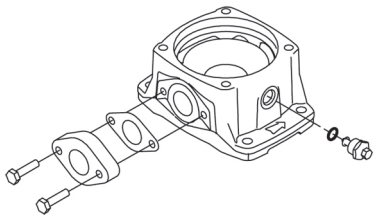
Date: 07/04/2025

Qty.	Description
1	



The shaft seal is screwed into the pump head.

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:	140 °F
Density:	61.35 lb/ft³

Technical:

Pump speed on which pump data are based:	3425 rpm
Rated flow:	4.84 US GPM
Rated head:	40.7 psi
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
	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 inch

GRUNDFOS

Company name:
Created by:
Phone:

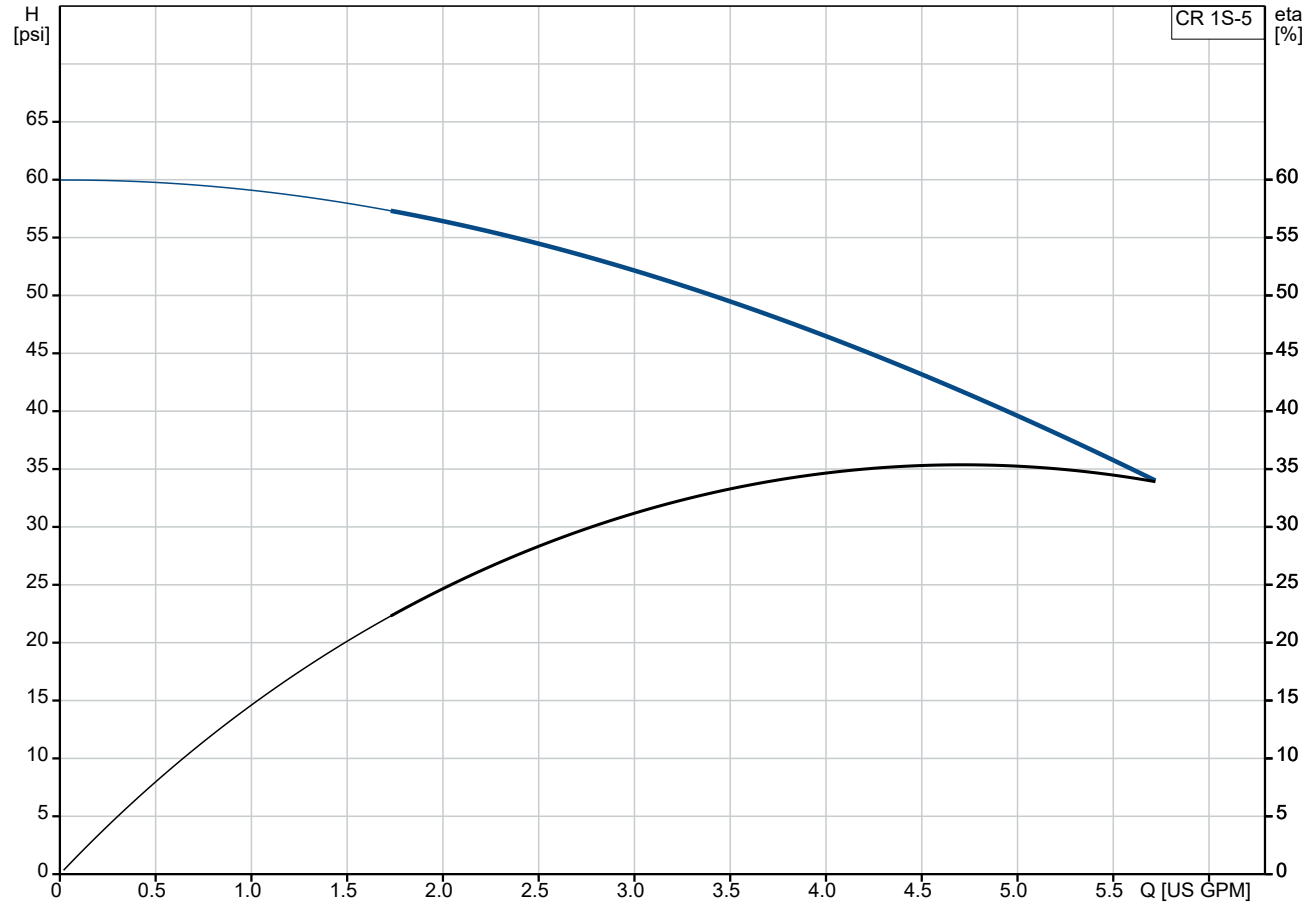
Date: 07/04/2025

Qty.	Description	
1	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:	0.33 HP
	Controls:	
	Frequency converter:	None
	Others:	
	Net weight:	31.5 lb
	Gross weight:	42.5 lb
	Shipping volume:	4.94 ft³
	Country of origin:	US
	Custom tariff no.:	8413.70.2040

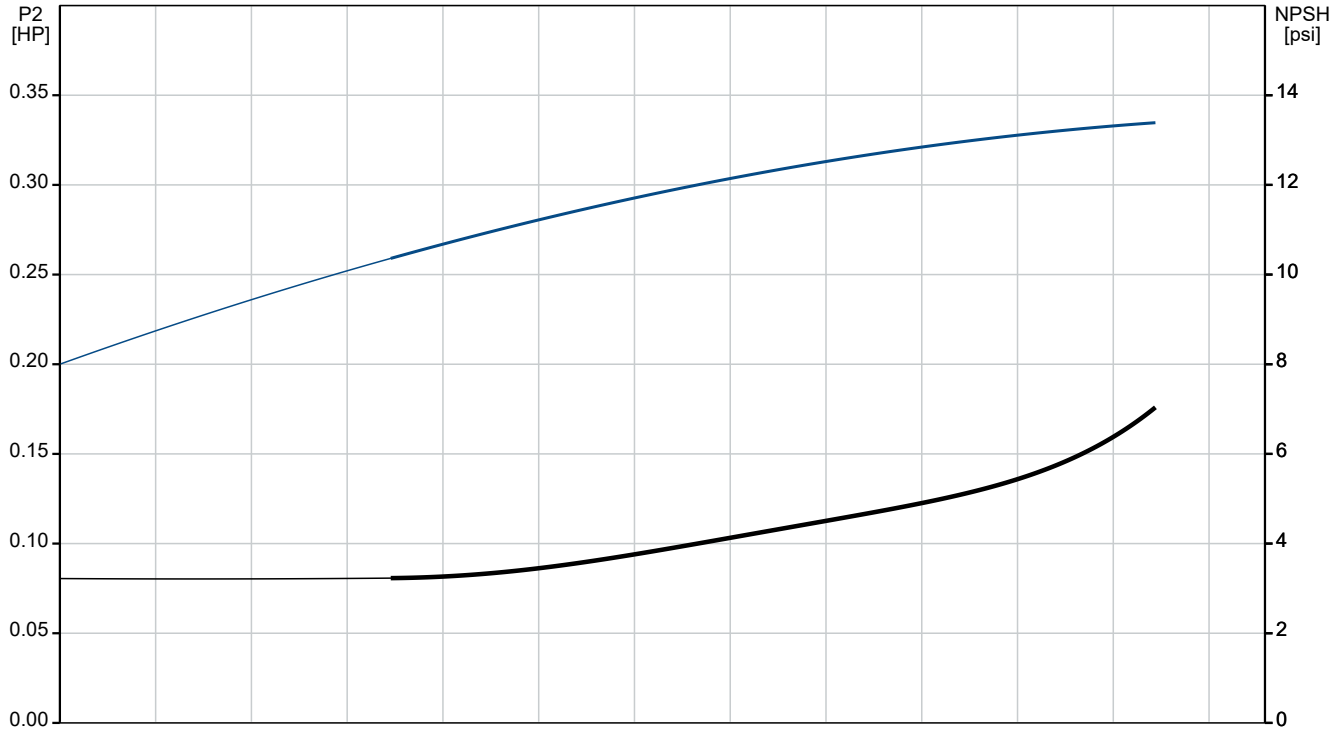
Company name:
Created by:
Phone:

Date: 07/04/2025

96080934 CR 1S-5 A-B-A-V-HQQV 60 Hz



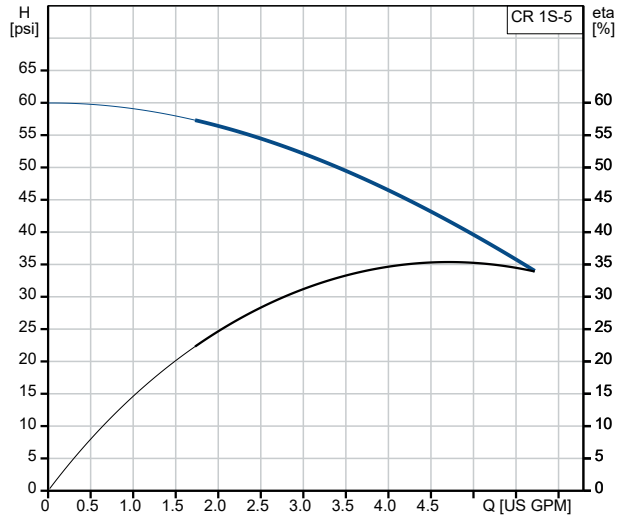
Pumped liquid = Water
Liquid temperature during operation = 140 °F
Density = 61.35 lb/ft³



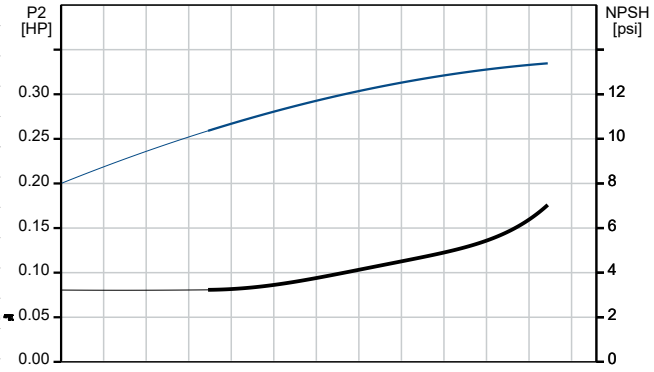
Company name:
Created by:
Phone:

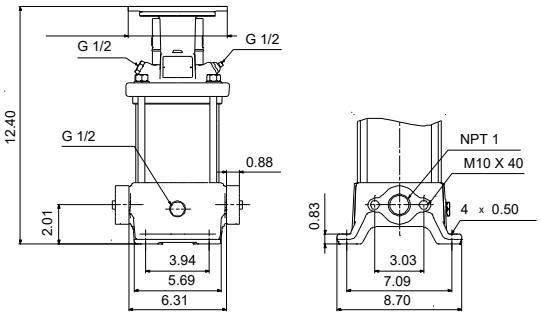
Date: 07/04/2025

Description	Value
General information:	
Product name:	CR 1S-5 A-B-A-V-HQQV
Product No:	96080934
EAN number:	5700395153927
Technical:	
Pump speed on which pump data are based:	3425 rpm
Rated flow:	4.84 US GPM
Rated head:	40.7 psi
Maximum head:	59.72 psi
Stages:	5
Impellers:	5
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 inch
Size of outlet connection:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	56C
Connect code:	B
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 194 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft³
Electrical data:	
Motor standard:	NEMA
Power (P2) required by pump:	0.33 HP
Controls:	
Frequency converter:	None
Others:	
Net weight:	31.5 lb
Gross weight:	42.5 lb
Shipping volume:	4.94 ft³
Country of origin:	US



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



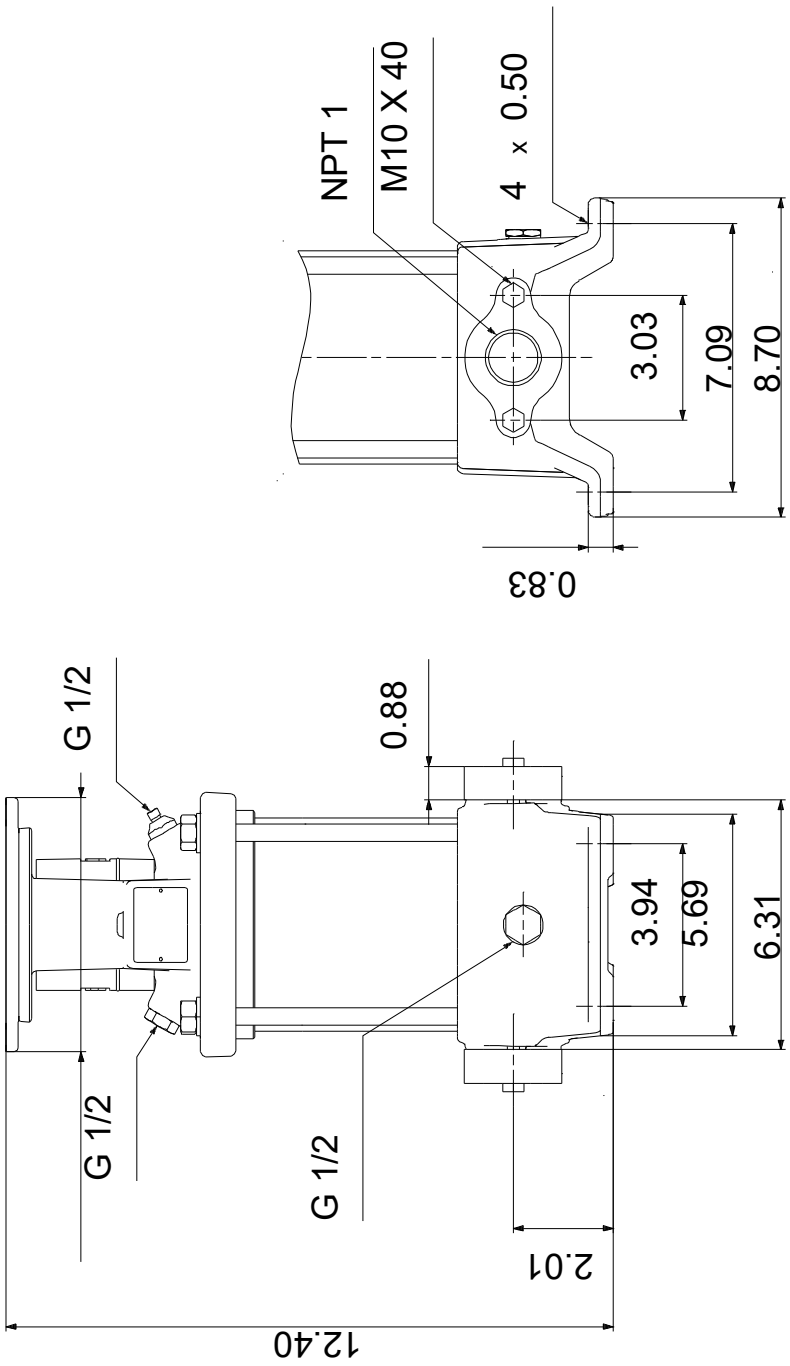


Description	Value
Custom tariff no.:	8413.70.2040

Company name:
Created by:
Phone:

Date: 07/04/2025

96080934 CR 1S-5 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.