Submittal Data

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

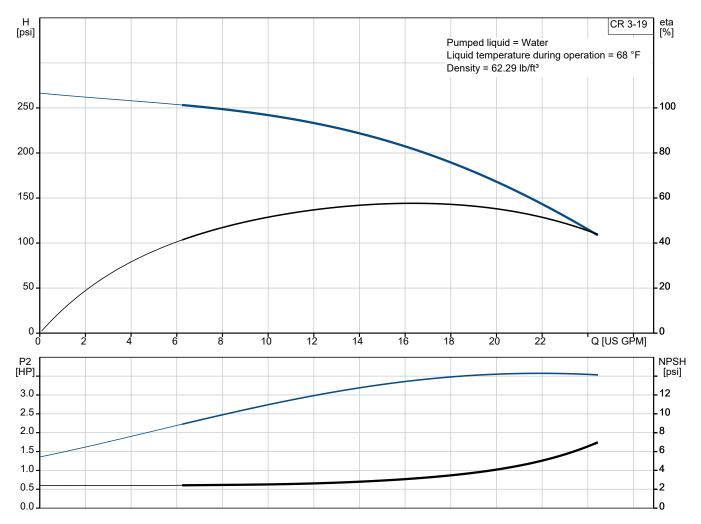


CR 3-19 A-FGJ-A-E-HQQE

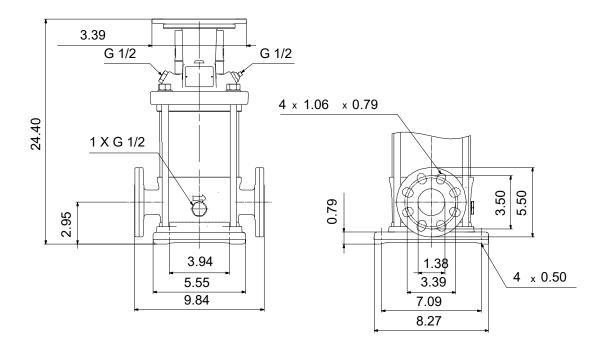
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid: Temperature: Specific Gravity:	Water 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Shaft seal: Product number:	363 psi / 250 °F -4 248 °F HQQE 96083195	Mains frequency:	60 Hz



Submittal Data



Cast iron
EN 1561 EN-GJL-200
ASTM A48-25B
Stainless steel
AISI 304
EN 1.4301
A
E



Qty. | Description

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Date:

23/05/2025

y. Description



Note! Product picture may differ from actual product

Product No.: 96083195 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.

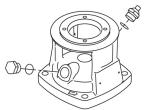
An integral part of the process is a pretreatment.

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.



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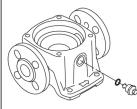
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The shaft seal is screwed into the pump head.

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.

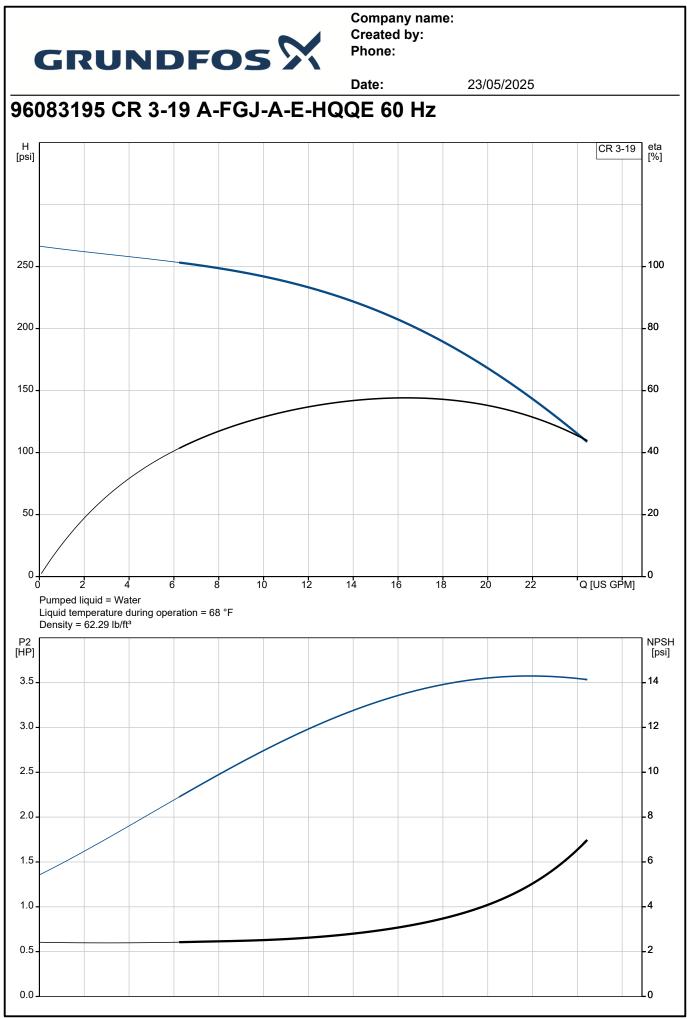


Motor The pump is sold without motor. Technical data

Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 248 °F 68 °F 62.29 lb/ft³
Technical: Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Primary shaft seal: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	are based: 3461 rpm 15.4 US GPM 191 psi Vertical Single HQQE HQQE CE NSF/ANSI 61 ISO9906:2012 3B
Materials: Base: Impeller: Bearing:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304 SIC
Installation: Maximum operating pressure:	362.59 psi



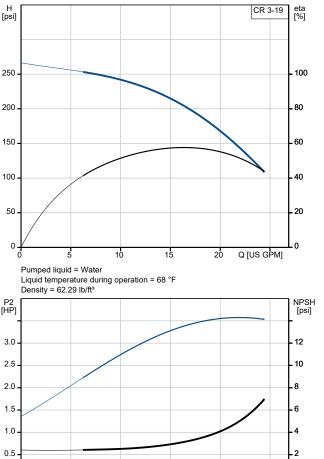
		Date:	23/05/2025	
Description				
Max pressure at stated temp:	363 psi / 250 °F			
	363 psi / -4 °F			
Type of connection:	DIN / ANSI / JIS			
Size of inlet connection:	DN 25/32			
	1 1/4 inch			
Size of outlet connection:	DN 25/32			
	1 1/4 inch			
Pressure rating for connection:	PN 25			
Flange rating inlet:	250 lb			
Flange size for motor:	182TC			
Electrical data:				
Motor standard:	NEMA			
Power (P2) required by pump:	3 HP			
Controls:				
Frequency converter:	None			
Others:				
Net weight:	59.8 lb			
Gross weight:	77.7 lb			
Shipping volume:	4.94 ft ³			
Country of origin:	US			
Custom tariff no.:	8413.70.2040			
	Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Power (P2) required by pump: Controls: Frequency converter: Others: Net weight: Gross weight: Shipping volume: Country of origin:	Max pressure at stated temp:363 psi / 250 °F 363 psi / -4 °FType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/32 1 1/4 inchSize of outlet connection:DN 25/32 1 1/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange size for motor:182TCElectrical data: Motor standard:NEMA 9 ower (P2) required by pump:Size of outlet:59.8 lbGontrols: Frequency converter:59.8 lbGross weight:77.7 lbShipping volume: Country of origin:US	DescriptionMax pressure at stated temp:363 psi / 250 °F 363 psi / -4 °FType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/32 1 1/4 inchSize of outlet connection:DN 25/32 1 1/4 inchSize of outlet connection:PN 25/32 1 1/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange size for motor:182TCElectrical data: Motor standard:NEMA Power (P2) required by pump:3 HPControls: Frequency converter:NoneOthers: 0thers: Net weight:Size sweight:77.7 lbShipping volume: Country of origin:4.94 ft³ Country of origin:	Description 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 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for connection: DN 25/32 1 1/4 inch Pressure rating for connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: 182TC Electrical data: Motor standard: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: Frequency converter: None Others: Gross weight: Met weight: 59.8 lb Gross weight: 77.7 lb Shipping volume: 4.94 ft ³ Country of origin: US



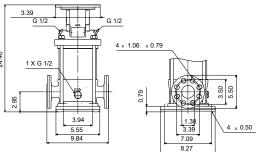
Printed from Grundfos Product Centre [2025.20.001]



Description Value General information: CR 3-19 AFGJA-E-HQQE Product name: AFGJA-E-HQQE Product name: 66083195 EAN number: 5700395183634 Technical: Product No: Pump speed on which pump data are based: 154 US GPM Rate flow: 15.4 US GPM Rate flow: 15.4 US GPM Rate flow: 15.4 US GPM Rate flow: 19 Impellers: 19 Number of reduced-diameter impellers: 0 Low NPSH: N Pump versition: N Approvals for drinking water: CE Approvals for drinking water: CE Approvals for drinking water: CE Base: Cast iron Type o			Date:	23/05/2025
General Information: Product name: CR 3-19 AFGJ.AE-HQQE Product No: 96083195 EXAN number: 5700395183834 Technical: 90083195 Pump speed on which pump data are based: 191 pai Maximum head: 257.6 pai Stages: 19 Impellers: 19 Number of reduced-diameter impellers: 0 Low NPSH: N Pump systemagement: Single Primary shaft seal: HOQE Approvals: CE Approvals for drinking water: NSF/ANSI 61 Curve tolerance: ISO906:2012 38 Pump version: A Model: A Materials: EN 1861 EN-GJL-200 Materials: A Base: Cast iron Base: Cast iron Base: Cast iron Base: Cast iron Materials: A Type of connection: DN 26/32 Type of connection: DN 26/32 Type of connection: DN 26/32 Fange rating inlet:	Description	Value		
A FGJAE-HQCE Product No:: Produ				
LocationDocumentationEAN number:5700395183834Technical:9Jump speed on which pump data are based:3461 rpmRated flow:15.4 US GPMRated flow:15.4 US GPMRated head:191 pslMaximum head:257.6 pslStages:19Impellers:19Number of reduced-diameter impellers:0Low NPSH:NPump orientation:VerticalPrimary shaft seal:HQQECode for shaft seal:HQQECode for shaft seal:HQQEApprovals:CEApprovals for drinking water:NSF/ANSI 61Curve tolerance:ISO9906:2012 3BPump version:AModei:AMaterial:Cast ironBase:Cast ironEnstallation:NASIN A48-25BImpeller:Stainless stelelEnstallation:NASIN A48-25BMaximum operating pressure:362.59 pslMax pressure at stated temp:363 psl / 4 °FType of connection:DN 25/32Type of connection:DN 25/32Ting size of outlet connection:N 25/32Flange size for motor:11/4 inchPressure rating for connection:PN 25Flange size for motor:182TCCommet code:FGJLiquid temperature:68 °FDensity:62.29 lb/ft ⁴ Elected liquid temperature:68 °FDensity:62.29 lb/ft ⁴ Electrici data:MEM	Product name:			
Technical: 3461 rpm Pump speed on which pump data are based. 3461 rpm Rated flow: 15.4 US GPM Rated flow: 15.4 US GPM Maximum head: 257.6 psi Stages: 19 Number of reduced-diameter impellers: 0 Low NPSH: N Pump orientation: Vertical Shaft seal: HOQE Code for shaft seal: HOQE Approvals for drinking water: NSF/ANSI 61 Curve tolerance: ISO9906:2012 3B Pump version: A Materials: E Base: Cast iron Base: Cast iron Base: Cast iron Si 13 04 Adsi 304 Materials: Side Base: Cast iron Base: Cast iron Material code: A Code for rubber: E Baring: SiC Installation: Maximum operating pressure: Maximum operating ressure: 362 59 psi Max pressure atlated temp: 363 psi / 4 ° F <td>Product No:</td> <td>96083195</td> <td>250 -</td> <td></td>	Product No:	96083195	250 -	
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Primary shaft seal: Code for shaft seal: HQQE Approvals: CE Approvals for drinking water: NSF/ANSI 61 Curve tolerance: Pump version: A Model: A Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-258 Impeller: EN 14301 AISI 304 Material code: Code for rubber: Bearing: SIC Installation: Maximum operating pressure: 362,59 psi Max pressure at stated temp: 363 psi / 4 °F Type of connection: DIN / ANSI / JIS Size of nulet connection: DIN / ANSI / JIS Size of outlet connection: DIN 25/32 Ti 11/4 inch Pressure rating for connection: DIN 25/32 Ti 14/4 inch Pressure rating for connection: DIN 25/32 Ti 14/4 inch Pressure rating for connection: PN 25 Flange rating inlet: Connect code: FGJ Liquid temperature range: 4248 °F Selected liquid temperature: 68 °F Density: Controls: Frequency converter: None	•		0 5	10 15
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Approvals for drinking water: NSF/ANSI 61 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: E Bearing: SIC Installation: Maximum operating pressure: 362.59 psi Max pressure at stated temp: 363 psi / 250 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DIN 25/32 T11/4 inch Size of outlet connection: DIN 25/32 Flange rating inlet: 250 lb Flange rating i			P2	
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Model: A Materials: Base: Cast iron Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 0.5 ASIS 304 A Material code: A Code for rubber: E Bearing: SIC Installation: SiC 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: Size of inlet connection: DN 25/32 11/4 inch Size of outlet connection: Pressure rating for connection: DN 25/32 Flange rating inlet: 250 lb Flange size for motor: 182TC Connect code: FGJ Liquid Water Liquid temperature range: 4248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft ^a Electrical data: Material Motor standard: NEMA <td>Curve tolerance:</td> <td>ISO9906:2012 3B</td> <td>3.0 -</td> <td></td>	Curve tolerance:	ISO9906:2012 3B	3.0 -	
Materials:Base:Cast ironBase:Cast ironEN 1561 EN-GJL-200ASTM A48-25BImpeller:Stainless steelEN 1.4301AISI 304Material code:ACode for rubber:EBearing:SICInstallation:Max pressure at stated temp:362.59 psiMax pressure at stated temp:363 psi / 250 °F363 psi / 4 °FType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/3211/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange rating inlet:250 lbElectrical data:WaterLiquid temperature range:-4248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft ³ Electrical data:NEMAPower (P2) required by pump:3 HPControls:FFrequency converter:None	Pump version:	А	2.5	
Base: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 14301 AISI 304 Material code: A Code for rubber: Bearing: SIC Installation: Maximum operating pressure: 362.59 psi Max pressure at stated temp: 363 psi / 4 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DIN / ANSI / JIS Size of outlet connection: DIN 25/32 11/4 inch Size of outlet connection: DN 25/32 11/4 inch Pressure rating for connection: DN 25/32 11/4 inch Pressure rating for connection: DN 25/32 11/4 inch Pressure rating for connection: PN 25 Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature: Selected liquid temperature: Selected liquid temperature: Base: MeMA Power (P2) required by pump: Trequency converter: None	Model:	А		
EN 1561 EN-GJL-200 ASTM A48-25BImpeller:Stainless steel EN 1.4301 AISI 304Material code:ACode for rubber:EBearing:SICInstallation: Maximum operating pressure:362.59 psi 363 psi / 250 °F 363 psi / 4° FType of connection:DIN / ANSI / JISSize of nilet connection:DN 25/32 11/4 inchSize of outlet connection:DN 25/32 11/4 inchPressure rating for connection:DN 25/32 11/4 inchPressure rating for connection:PN 25 Flange rating inlet:11/4 inchPressure rating for connection:PN 25 FGJLiquid temperature range: Liquid temperature:68 °F 68 °F Density:Density:62.29 lb/ft³Electrical data: Motor standard:NEMA Power (P2) required by pump:Metha Power (P2) required by pump:3 HP Controls:Frequency converter:None	Materials:		2.0	· · · · · · · · · · · · · · · · · · ·
ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Material code: A Code for rubber: E Bearing: SIC Installation: Maximum operating pressure: 362.59 psi Max pressure at stated temp: 363 psi / 250 °F 363 psi / 260 °F 363 psi / 260 °F Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 11/4 inch Size of outlet connection: PN 25/32 11/4 inch Pressure rating for connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: 182TC Connect code: FGJ Liquid temperature range: -4 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft ³ Electrical data: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None	Base:	Cast iron	1.5	
ASTIM AP2255 Impeller: Stainless steel EN 1.4301 AISI 304 Material code: A Code for rubber: E Bearing: SIC Installation: 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 11/4 inch Pressure rating for connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: 182TC Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature: 68 °F Density: 62.29 lb/ft ³ Electrical data: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None		EN 1561 EN-GJL-200	_	
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AISI 304 Material code: A Code for rubber: E Bearing: SIC Installation: 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: DIN 25/32 11/4 inch Size of outlet connection: PN 25 Flange rating for connection: PN 25 Flange size for motor: 182TC Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: 4 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft ^a Electrical data: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None		EN 1.4301		
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Bearing: SIC Installation: 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 11/4 inch Size of outlet connection: DN 25/32 11/4 inch Pressure rating for connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: 182TC Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -4 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft ³ Electrical data: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None	Material code:	А		
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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 11/4 inch Size of outlet connection: DN 25/32 11/4 inch Pressure rating for connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: 182TC Connect code: FGJ Liquid: Water Liquid temperature range: -4 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft ³ Electrical data: NEMA Power (P2) required by pump: 3 HP Controls: F Frequency converter: None	Installation:			G 1/2
Max pressure at stated temp:363 psi / 250 °F363 psi / 4 °FType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/321 1/4 inchSize of outlet connection:DN 25/321 1/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange size for motor:182TCConnect code:FGJLiquid:Pumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor standard:NemAPower (P2) required by pump:3 HPControls:Frequency converter:None	Maximum operating pressure:	362.59 psi		
Sob ps// 44 PType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/3211/4 inchSize of outlet connection:DN 25/3211/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange size for motor:182TCConnect code:FGJLiquid:WaterPumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAPower (P2) required by pump:3 HPControls:FFrequency converter:None	Max pressure at stated temp:	363 psi / 250 °F	40	4 x 1.06 x 0.79
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Size of milet connection: 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: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: -4 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Nemation: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None	Type of connection:	DIN / ANSI / JIS		
1 1/4 inchSize of outlet connection:DN 25/321 1/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange size for motor:182TCConnect code:FGJLiquid:WaterPumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAPower (P2) required by pump:3 HPControls:FFrequency converter:None	Size of inlet connection:	DN 25/32		
Size of outlet connection: DN 25/32 11/4 inch Pressure rating for connection: PN 25 Flange rating inlet: 250 lb Flange size for motor: 182TC Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -4 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None		1 1/4 inch		
1 1/4 inchPressure rating for connection:PN 25Flange rating inlet:250 lbFlange size for motor:182TCConnect code:FGJLiquid:Pumped liquid:VaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor standard:Power (P2) required by pump:3 HPControls:Frequency converter:None	Size of outlet connection:	DN 25/32		5.55
Flange rating inlet:250 lbFlange size for motor:182TCConnect code:FGJLiquid:WaterPumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAPower (P2) required by pump:3 HPControls:Fequency converter:Frequency converter:None		1 1/4 inch		9.84
Flange rating inlet:250 lbFlange size for motor:182TCConnect code:FGJLiquid:WaterPumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAPower (P2) required by pump:3 HPControls:Fequency converter:Frequency converter:None	Pressure rating for connection:	PN 25		-
Flange size for motor:182TCConnect code:FGJLiquid:WaterPumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAPower (P2) required by pump:3 HPControls:Frequency converter:	-			
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Pumped liquid:WaterLiquid temperature range:-4 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAPower (P2) required by pump:3 HPControls:FFrequency converter:None				
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Density:62.29 lb/ft³Electrical data:Motor standard:NEMAPower (P2) required by pump:3 HPControls:Frequency converter:None				
Electrical data: Motor standard: NEMA Power (P2) required by pump: 3 HP Controls: Frequency converter: None				
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Power (P2) required by pump: 3 HP Controls: Frequency converter: None		NEMA		
Controls: Frequency converter: None				
Frequency converter: None				
		None		
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		Date:	23/05/2025
Description	Value		
Net weight:	59.8 lb		
Gross weight:	77.7 lb		
Shipping volume:	4.94 ft ³		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		

