

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

"Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)



14/02/2022

#### Qty. | Description

"Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)

Date:

• "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

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.

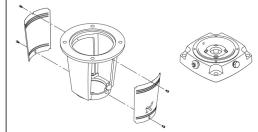
The colour code for the finished product is NCS 9000/RAL 9005.

# Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.

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The motor stool connects the pump head and motor. 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.

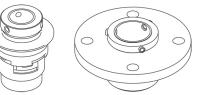
Primary seal:

- 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.





14/02/2022

Qty. | Description

The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

Date:

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. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

# **Technical data**

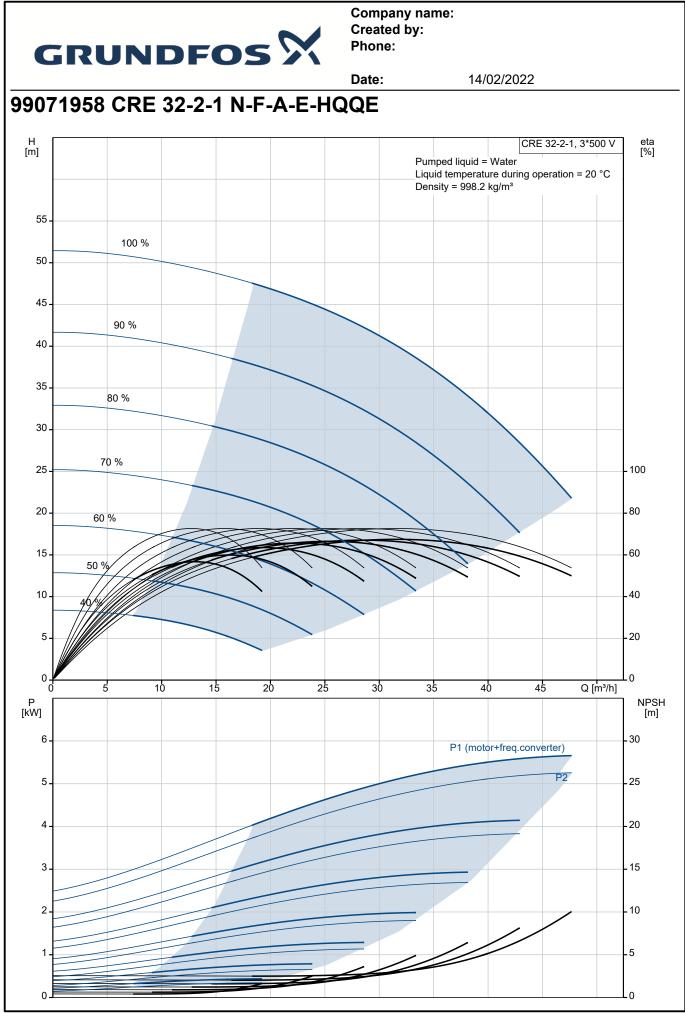
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -30 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	are based: 3526 rpm 36 m³/h 37.9 m Vertical Single HQQE CE,EAC,UKCA WRAS,ACS ISO9906:2012 3B
Materials: Base: Impeller: Bearing:	Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06 Stainless steel EN 1.4301 AISI 304 SIC Graflon
Support bearing: Installation: t max amb: Maximum operating pressure: Max pressure at stated temp:	Gration 50 °C 16 bar 16 bar / 120 °C



Date:

14/02/2022

		Date:	14/02/2022	
Description				
	16 bar / -30 °C			
Type of connection:	DIN			
Size of inlet connection:	DN 65			
Size of outlet connection:	DN 65			
Pressure rating for connection				
Flange size for motor:	FF265			
Thange size for motor.	11200			
Electrical data:				
Motor standard:	IEC			
Motor type:	132SE			
IE Efficiency class:	IE5			
Rated power - P2:	5.5 kW			
Power (P2) required by pump	o: 5.5 kW			
Mains frequency:	50 / 60 Hz			
Rated voltage:	3 x 380-500 V			
Rated current:	10.3-8.20 A			
Cos phi - power factor:	0.92-0.88			
Rated speed:	360-4000 rpm			
Efficiency:	92.7%			
Motor efficiency at full load:	92.7 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor No:	98971051			
	3037 1001			
Controls:				
Frequency converter:	Built-in			
Pressure sensor:	Y			
Net weight: Gross weight: Shipping volume: Danish VVS No.:	89.1 kg 112 kg 0.309 m³ 386006171			
Danish VVS No	30000171			



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		<b>Date:</b> 14/02/2022
Description	Value	H [m] CRE 32-2-1, 3*500 V etc [%
General information:		Pumped liquid = Water
Product name:	CRE 32-2-1	Liquid temperature during operation = 20 °C   55
roduct hame.	N-F-A-E-HQQE	100 %
Product No:	99071958	50
EAN number:	5712606201556	45
Price:		90 %
Technical:		40
Pump speed on which pump data are	3526 rpm	35 80 %
based:		
Rated flow:	36 m³/h	30
Rated head:	37.9 m	25 70 % 100
Maximum head:	51.4 m	20 60 %
Stages:	2	20 60 %
Impellers:	2	15-50 % 60
Number of reduced-diameter impellers:	1	
Low NPSH:	Ν	
Pump orientation:	Vertical	5
Shaft seal arrangement:	Single	
Code for shaft seal:	HQQE	0 5 10 15 20 25 30 35 40 Q [m³/h]
Approvals:	CE,EAC,UKCA	P [kW] NP [r
Approvals for drinking water:	WRAS,ACS	P1 (motor+freq.converter)
Curve tolerance:	ISO9906:2012 3B	5 P2 - 25
Pump version:	Ν	
Model:	В	4 20
Materials:		315
Base:	Cast iron	
Base:	EN 1563 EN-GJS-500-7	2- 10
Base:	ASTM A536 80-55-06	1
Impeller:	Stainless steel	
Impeller:	EN 1.4301	1
Impeller:	AISI 304	- 201
Material code:	A	1913
Code for rubber:	E	
Bearing:	SIC	
Support bearing:	Graflon	
Installation:		
t max amb:	50 °C	
Maximum operating pressure:	16 bar	
Max pressure at stated temp:	16 bar / 120 °C	G 1/2
Max pressure at stated temp:	16 bar / -30 °C	
Type of connection:	DIN	
Size of inlet connection:	DN 65	
Size of outlet connection:	DN 65	
Pressure rating for connection:	PN 40	
Flange size for motor:	FF265	· · · · · · · · · · · · · · · · · · ·
Connect code:	F	
Liquid:	•	
Pumped liquid:	Water	
Liquid temperature range:	-30 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m <sup>3</sup>	
Electrical data:	500.2 Ng/III	
Motor standard:	IEC	
Motor type:	132SE	
IE Efficiency class:	IE5	
Rated power - P2:		
	5.5 kW	1 (Bolavi 1 (Bolavi 1 (Bolavi 
Power (P2) required by pump:	5.5 kW	
Mains frequency:	50 / 60 Hz	
Rated voltage:	3 x 380-500 V	_

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		Date:	14/02/2022	
Description	Value			
Rated current:	10.3-8.20 A			
Cos phi - power factor:	0.92-0.88			
Rated speed:	360-4000 rpm			
Efficiency:	92.7%			
Motor efficiency at full load:	92.7 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Built-in motor protection:	ELEC			
Motor No:	98971051			
Controls:				
Control panel:	Standard			
Function Module:	FM300 - Advanced			
Frequency converter:	Built-in			
Pressure sensor:	Y			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	89.1 kg			
Gross weight:	112 kg			
Shipping volume:	0.309 m³			
Config. file no:	99059267			
Danish VVS No.:	386006171			

