

# Submittal Data

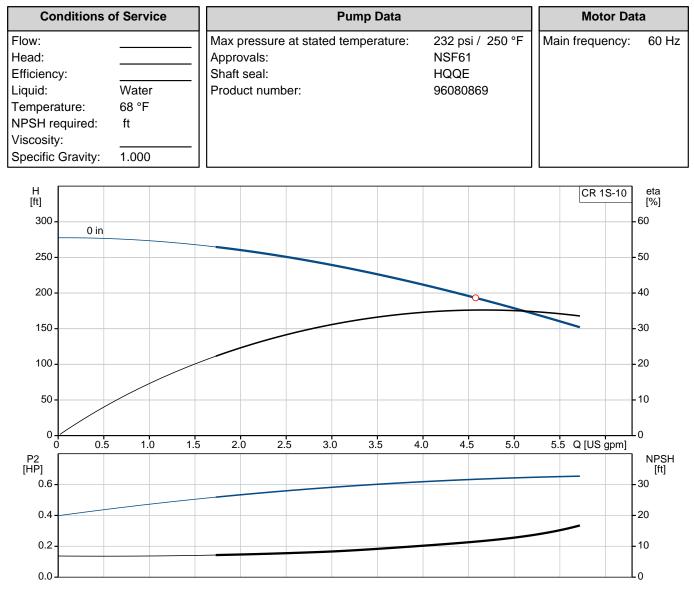
PROJECT:	 UNIT TAG:	 QUANTITY:	
	 TYPE OF SERVICE:		
REPRESENTATIVE:	 SUBMITTED BY:	 DATE:	
ENGINEER:	 APPROVED BY:	DATE:	
CONTRACTOR:	 ORDER NO.:	 DATE:	



## CR 1S-10

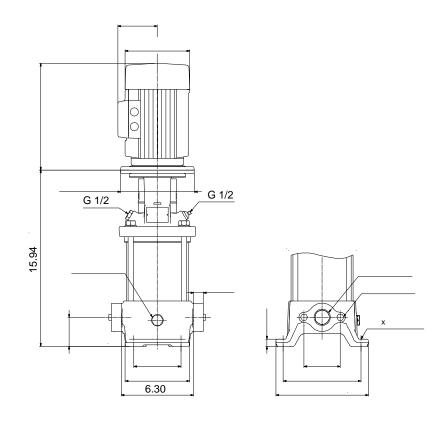
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

Product photo could vary from the actual product



# Submittal Data





Materials:

Base:

Impeller:

Material code:

Code for rubber: E

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



2/20/2018

**Tender Text** 



Product photo could vary from the actual product

#### Product No.: 96080869 CR 1S-10 A-B-A-E-HQQE

Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

The pump has the following characteristics:

- Impellers and intermediate chambers are made of

NONE

- The shaft seal has assembly length

according to EN 12756.

- Power transmission is via cast iron split coupling.

Controls:

#### Liquid:

Pumped liquid:	Wate	er
Liquid temperature during	operation:	68 °F
Density:	62.2	9 lb/ft <sup>3</sup>

#### Technical:

Speed for pump data:	3439 rpm
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	NSF61
Curve tolerance:	ISO9906:2012 3B
<b>Materials:</b>	Cast iron
Base:	EN 1561 EN-GJL-200
Impeller:	ASTM A48-25B Stainless steel EN 1.4301

#### Installation:

Bearing material:

motanation.	
Max pressure at stated temperat	ure: 232 psi / 250 °F
	232 psi / -4 °F
Type of connection:	Oval / NPT(F)

AISI 304

SIC



Date:

2/20/2018

Size of suction port:	1 inch
Size of outlet port:	1 inch
Pressure rating:	PN 16
Flange size for motor:	56C
Electrical data: Motor standard: Power (P2) required by pump:	NEMA 0.75 HP

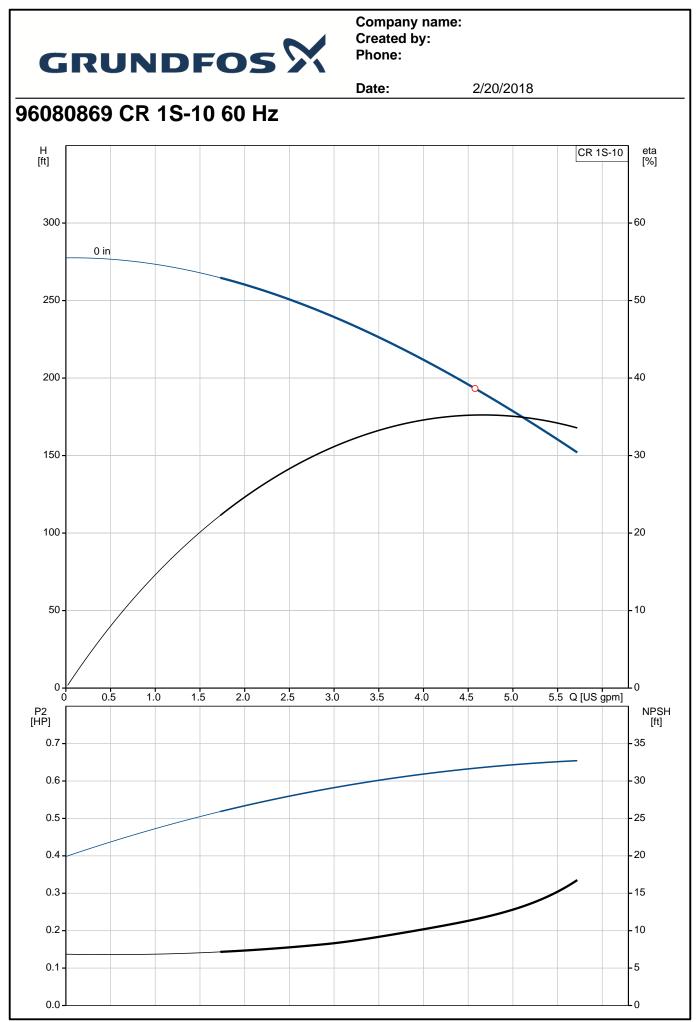
### Others:

Net weight:	36.1 lb
Gross weight:	47.1 lb
Shipping volume:	4.94 ft <sup>3</sup>

G	RU	INDFOS	Company name: Created by: Phone:
			<b>Date:</b> 2/20/2018
Position	Count	Description	
	1	CR 1S-10 A-B-A-E-HQQE	in pipe systems aracteristics: ite chambers are made of
		according to EN 12756. - Power transmission is vi coupling. Controls:	a cast iron split
		Frequency converter: Liquid: Pumped liquid: Liquid temperature during oper Density:	NONE Water ation: 68 °F 62.29 lb/ft <sup>3</sup>
		<b>Technical:</b> Speed for pump data: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	3439 rpm Vertical Single HQQE NSF61 ISO9906:2012 3B
		<b>Materials:</b> Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B
		Impeller:	Stainless steel EN 1.4301 AISI 304
		Bearing material:	SIC
		Installation: Max pressure at stated tempera	ature: 232 psi / 250 °F 232 psi / -4 °F
		Type of connection: Size of suction port: Size of outlet port:	Oval / NPT(F) 1 inch 1 inch



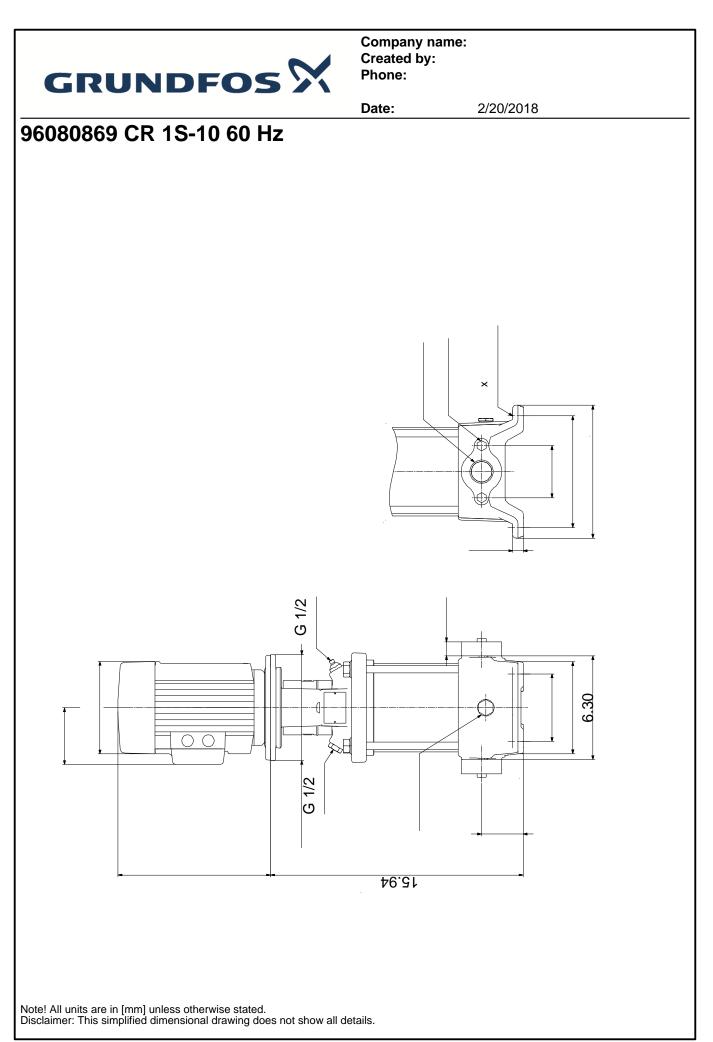
G	RU	INDFOS 2		Filone.			
				Date:	2	2/20/2018	
Position	Count	Description					
		Pressure rating: Flange size for motor:	PN 16 56C				
			000				
		Electrical data: Motor standard:	NEMA				
		Power (P2) required by pump:	0.75 HP	I			
		Others: Net weight:	36.1 lb				
		Gross weight:	47.1 lb				
		Shipping volume:	4.94 ft <sup>3</sup>				



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		Date:	2/20/2018		
Description	Value	H [ft]		CR 1S-10	eta [%]
General information:		-			
Product name:	CR 1S-10 A-B-A-E-HQQE	300 -			- 60
Product No.:	96080869	_	0 in		
EAN:	5700395153279	_			
		250 -			- 50
Technical:		_			
Speed for pump data:	3439 rpm				
Stages:	10	200 -			- 40
Impellers:	10	_			
Low NPSH:	Ν	150 -			- 30
Pump orientation:	Vertical	- 150 -			- 30
Shaft seal arrangement:	Single	_			
Code for shaft seal:	HQQE	100 -			- 20
Approvals on nameplate:	NSF61	100-			20
Curve tolerance:	ISO9906:2012 3B				
Pump version:	А	50 <b>-</b>			- 10
Model:	А	50-			
		_			
Materials:		o¥			-0
Base:	Cast iron		0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.	0 4.5 Q [US gpm]	NP
	EN 1561 EN-GJL-200	P2 [HP]			NP [1
	ASTM A48-25B				-
Impeller:	Stainless steel	0.6 -			- 30
	EN 1.4301	0.5 -			- 25
	AISI 304				
Material code:	A	0.4 -			- 20
Code for rubber:	E	0.3			- 15
Bearing material:	SIC	0.2			- 10
		0.1 -			- 5
Installation:		_			
Max pressure at stated temperature:	232 psi / 250 °F	0.0			-0
	232 psi / -4 °F				
Type of connection:	Oval / NPT(F)		<b>1</b>		
Connect code:	В	- T			
Size of suction port:	1 inch	_			
Size of outlet port:	1 inch	_			
Pressure rating:	PN 16	_			
Flange size for motor:	56C	- +			
Liquid:		-	<u>G 1/2</u> <u>G 1/2</u>		
Pumped liquid:	Water				
Liquid temperature during operation:	68 °F	15.94	П III II		
Density:	62.29 lb/ft <sup>3</sup>				
Denoty.		_			
Electrical data:		-	╶┼─╌╄╪╤╪╣╴╞╬╯		
Motor standard:	NEMA				
Power (P2) required by pump:	0.75 HP		6.30		
Controls:	NONE				
Frequency converter:	NONE				
Others:					
Net weight:	36.1 lb				
Gross weight:	47.1 lb				
Cross weight.					



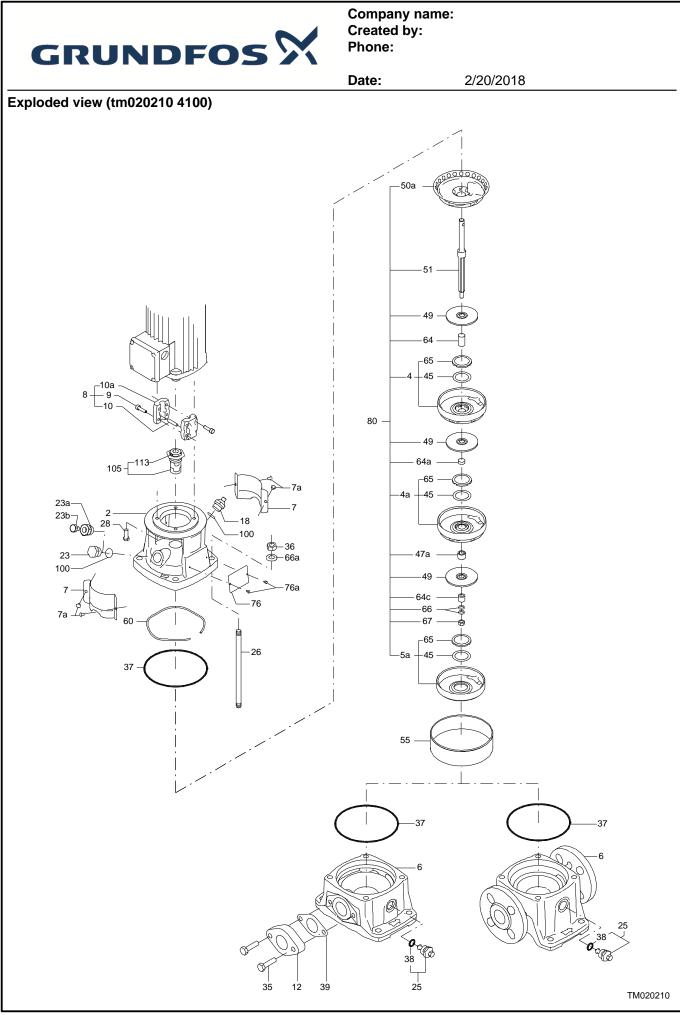


2/20/2018

**Order Data:** 

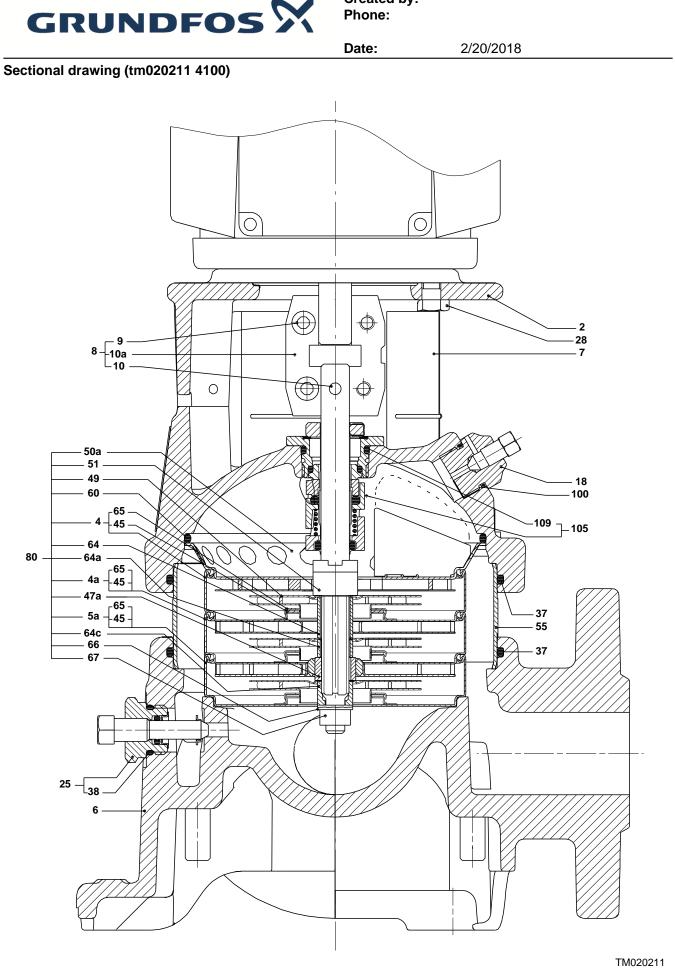
Product name: CR 1S-10 A-B-A-E-HQQE Amount: 1 Product No.: 96080869

Total: Price on request





Company name: Created by:





2/20/2018

## Parts list CR 1S-10, Prod number 96080869 Valid from 1.1.2004 (0401)

Position	•	Annotation	Classification data	Part No.		unt	
•	Base cpl.				1		pcs
6	Base					1	
12	Flange					2	
35	Hex head screw		Length: 40			4	
			Thread: M10				
37	Gasket					2	
	Sealing parts				1		pcs
25	Drain plug w/bypass valve					1	
38	O-ring		Diameter: 16,3				
			Material type: EPDM				
			Thickness: 2,4				
37	O-ring					2	
100	O-ring		Diameter: 16,3			2	
			Material type: EPDM				
			Thickness: 2,4				
- 2	Pump head cpl.				1		pcs
2	Pump head					1	•
7	Coupling guard					2	
7a	Thread cutting screw					4	
- 18	Air vent screw					1	
	Plug						
	Spindle						
- 25	Drain plug					1	
23	Pipe plug					-	
25	Drain plug						
28	Hex head cap screw		Length: 25			4	
20			Thread: UNC 3/8"			•	
60	Formed wire spring					1	
+ 8	Coupling cpl.				1	•	pcs
26	Staybolt		Length: 205		4		pcs
20			Thread: M12		•		poo
36a	Washer		Designation: DIN 125 A		4		pcs
500	Washer		Inner diameter: 13		-		pcs
			Outer diameter: 24				
			Thickness: 2,5				
55	Outer sleeve		THICKIE33. 2,5		1		pcs
66a	Nut		Thread: M12		4		pcs
	Chamber stack		mieau. Witz		4		•
- 80					I	1	pcs
•	Guide vane cpl. Plate					I	
500							
50a	Guide vane						
50b	Top plate					7	
- 4	Chamber cpl.					7	
	Guide vane						
	Plate						
	Retainer						
	Intermediate chamber						
	Vane						
45	Neck ring						
65	Retainer						
- 4a	Chamber w. bearing cpl.					2	
	Guide vane						
	Retainer for bearing						



			Date:	2/2	0/2018	8
Position	Description	Annotation	Classification data	Part No.	Count	Unit
	Bearing bush					
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
5a	Chamber cpl.				1	
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				2	
49	Impeller cpl.				10	
49	Impeller					
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				7	
64a	Spacing pipe		Inner diameter: 12,85	5	2	
			Outer diameter: 15,85			
			Length: 4,50			
64c	Clamp, splined		Inner diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
105	Shaft seal		Material type: HQQE		1	pcs
	O-ring				1	
	O-ring				1	
	Seal driver, upper				1	
	Seal driver, lower				1	
	Spacer ring				1	
	Pipe				1	
	Plug				1	
	Plug				1	
	Compression spring				1	
	Socket set screw				1	
102	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
107	O-ring				1	
113	Driver				1	