

#### Submittal Data

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



# CR 5-15

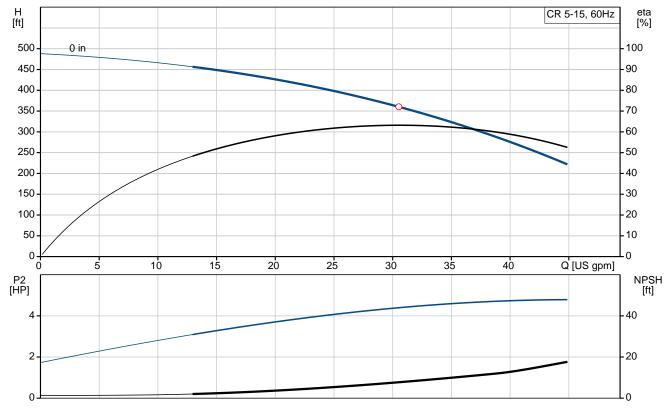
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

Product photo could vary from the actual product

Conditions of Service			
Flow:			
Head:			
Efficiency:			
Liquid:	Water		
Temperature:	68 °F		
NPSH required:	ft		
Viscosity:			
Specific Gravity:	1.000		

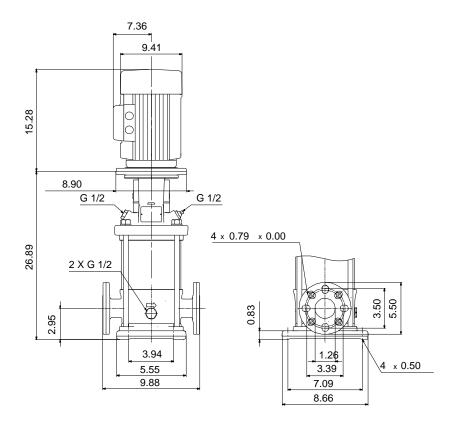
Pump Data	
Max pressure at stated temperature:	363 psi / 194 °F
Maximum ambient temperature:	104 °F
Approvals:	CURUS
Shaft seal:	HQQV
Product number:	96084371

	Motor Data				
1	Rated power - P2:	5 HP			
	Rated voltage:	208-230 V			
	Main frequency:	60 Hz			
	Enclosure class:	54 Dust/Splashing			
	Insulation class:	F			
	Motor protection:	NONE			
	Motor type:	BALDOR			





#### 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



**Date:** 2/20/2018

#### **Tender Text**



Product No.: 96084371 CR 5-15 A-FGJ-A-V-HQQV

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
- The shaft seal has assembly length

according to EN 12756.

- Power transmission is via cast iron split coupling.

The motor is a 1-phase AC motor.

Controls:

Frequency converter: NONE

Liquid:

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

Technical:

Speed for pump data: 3468 rpm
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQV
Approvals on nameplate: CURUS

Curve tolerance: ISO9906:2012 3B

Materials:

Impeller:

Base: Cast iron

EN 1561 EN-GJL-200 ASTM A48-25B

Stainless steel

EN 1.4301 AISI 304

Bearing material: SIC

Installation:

Maximum ambient temperature: 104 °F

Max pressure at stated temperature: 363 psi / 194 °F

363 psi / -4 °F

Type of connection: DIN / ANSI / JIS
Size of inlet connection: DN 25/32

Size of inlet connection: DN 25/32
Size of suction port: 1 1/4 inch
Size of outlet connection: DN 25/32



Date: 2/20/2018

Size of outlet port: 1 1/4 inch PN 25 Pressure rating: Flange size for motor: 182TC Flange rating inlet: 250 lb

**Electrical data:** 

NEMA Motor standard: Motor type: **BALDOR** IE Efficiency class: NA Rated power - P2: 5 HP Power (P2) required by pump: 5 HP Main frequency: 60 Hz Rated voltage:

1 x 208-230 V

Service factor: 1,15 Rated current: 24,0-22,0 A Rated speed: 3450 rpm

Number of poles:

Enclosure class (IEC 34-5): 54 Dust/Splashing

Insulation class (IEC 85):

Others:

Net weight: 163 lb Gross weight: 181 lb Shipping volume: 10.1 ft<sup>3</sup>



**Date:** 2/20/2018

Position | Count | Description

1 CR 5-15 A-FGJ-A-V-HQQV



Product No.: 96084371

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
- The shaft seal has assembly length

according to EN 12756.

- Power transmission is via cast iron split coupling.

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Controls:

Frequency converter: NONE

Liquid:

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

Technical:

Speed for pump data: 3468 rpm
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQV
Approvals on nameplate: CURUS

Curve tolerance: ISO9906:2012 3B

Materials:

Impeller:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B Stainless steel

EN 1.4301 AISI 304

SIC

Installation:

Bearing material:

Maximum ambient temperature: 104 °F

Max pressure at stated temperature: 363 psi / 194 °F

363 psi / -4 °F

Type of connection:

Size of inlet connection:

Size of suction port:

Size of outlet connection:

DIN / ANSI / JIS

DN 25/32

1 1/4 inch

DN 25/32

Size of outlet port:

1 1/4 inch



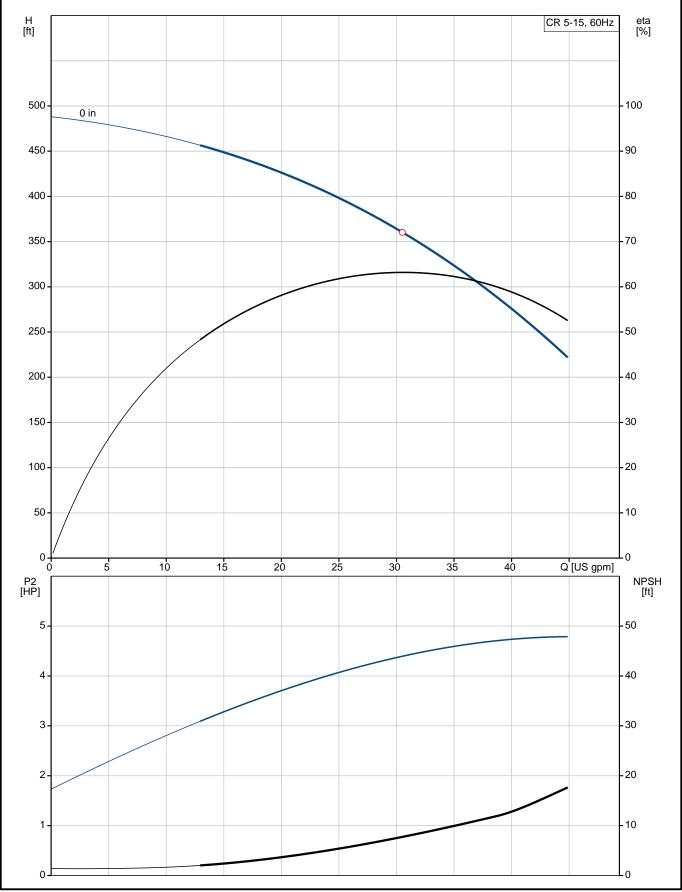
**Date:** 2/20/2018

			Date:	2/20/2018	
Position	Count	Description			
		Pressure rating:	PN 25		
		Flange size for motor:	182TC		
		Flange rating inlet:	250 lb		
		Electrical data:			
		Motor standard:	NEMA		
		Motor type:	BALDOR		
		IE Efficiency class:	NA		
		Rated power - P2:	5 HP		
		Power (P2) required by pump:	5 HP		
		Main frequency:	60 Hz		
		Rated voltage:	1 x 208-230 V		
		Service factor:	1,15		
		Rated current:	24,0-22,0 A		
		Rated speed:	3450 rpm		
		Number of poles:	2 54 Duet/Coloobing		
		Enclosure class (IEC 34-5):	54 Dust/Splashing		
		Insulation class (IEC 85):	F		
		Others:			
		Net weight:	163 lb		
		Gross weight:	181 lb		
		Shipping volume:	10.1 ft <sup>3</sup>		
	•	•			



**Date:** 2/20/2018

### 96084371 CR 5-15 60 Hz





**Date:** 2/20/2018

Description	Value
General information:	
Product name:	CR 5-15 A-FGJ-A-V-HQQV
Product No.:	96084371
EAN:	5700395192094
Technical:	
	0.400
Speed for pump data:	3468 rpm
Stages:	15
Impellers:	15
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CURUS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	TEFC
Materials:	
Base:	Cast iron
24001	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
•	EN 1.4301
	AISI 304
Material code:	A

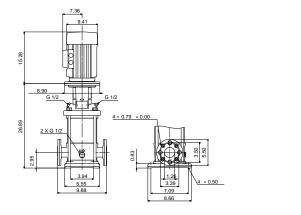
H (ft)	CR 5-15, 60Hz	eta [%]
500 <b>-</b> 0 in		<b>-</b> 100
450		<b>-</b> 90
400 -		<b>-</b> 80
350		<b>-</b> 70
300		- 60
250		<b>-</b> 50
200 -		<b>-</b> 40
150 -		- 30
100		<b>-</b> 20
50 -		<b>-</b> 10
0 10 15 20 25 30 35	Q [US gpm]	0
P2 [HP]		NPSH [ft]
5-		<b>-</b> 50
4-		<b>-</b> 40
3		- 30
2-		- 20
1-		<b>-</b> 10
0		-0

Installation: 104 °F Maximum ambient temperature: Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: DIN / ANSI / JIS Connect code: FGJ Size of inlet connection: DN 25/32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating: PN 25 Flange size for motor: 182TC Flange rating inlet: 250 lb

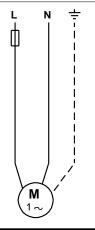
SIC

Code for rubber:

Bearing material:



Liquid:	
Pumped liquid:	Water
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft <sup>3</sup>
Electrical data:	
Motor standard:	NEMA
Motor type:	BALDOR
IE Efficiency class:	NA
Rated power - P2:	5 HP
Power (P2) required by pump:	5 HP
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Service factor:	1,15
Rated current:	24,0-22,0 A





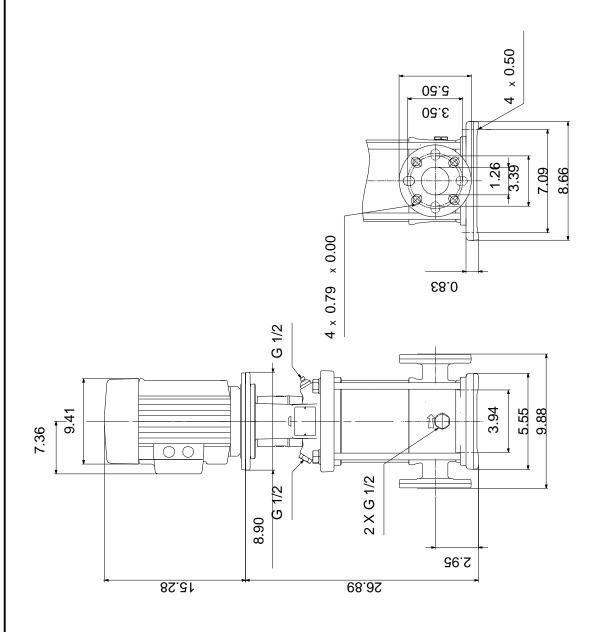
**Date:** 2/20/2018

Description	Value
Load current:	27,0-25,0 A
Rated speed:	3450 rpm
Number of poles:	2
Enclosure class (IEC 34-5):	54 Dust/Splashing
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	85700012
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	163 lb
Gross weight:	181 lb
Shipping volume:	10.1 ft <sup>3</sup>



Date: 2/20/2018

## 96084371 CR 5-15 60 Hz

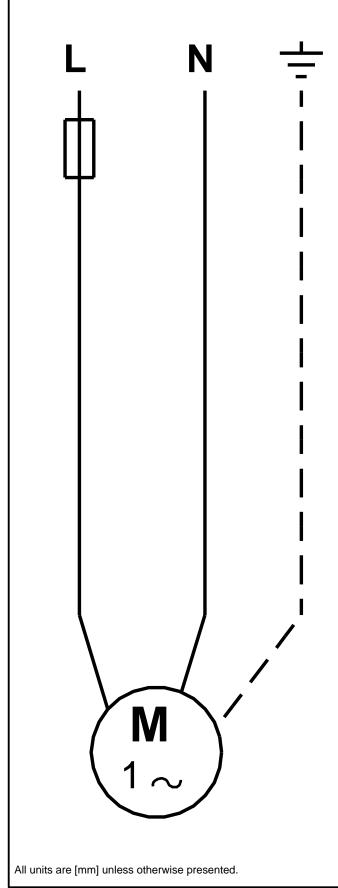


Note! All units are in [mm] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 2/20/2018

96084371 CR 5-15 60 Hz





**Date:** 2/20/2018

**Order Data:** 

Product name: CR 5-15 A-FGJ-A-V-HQQV

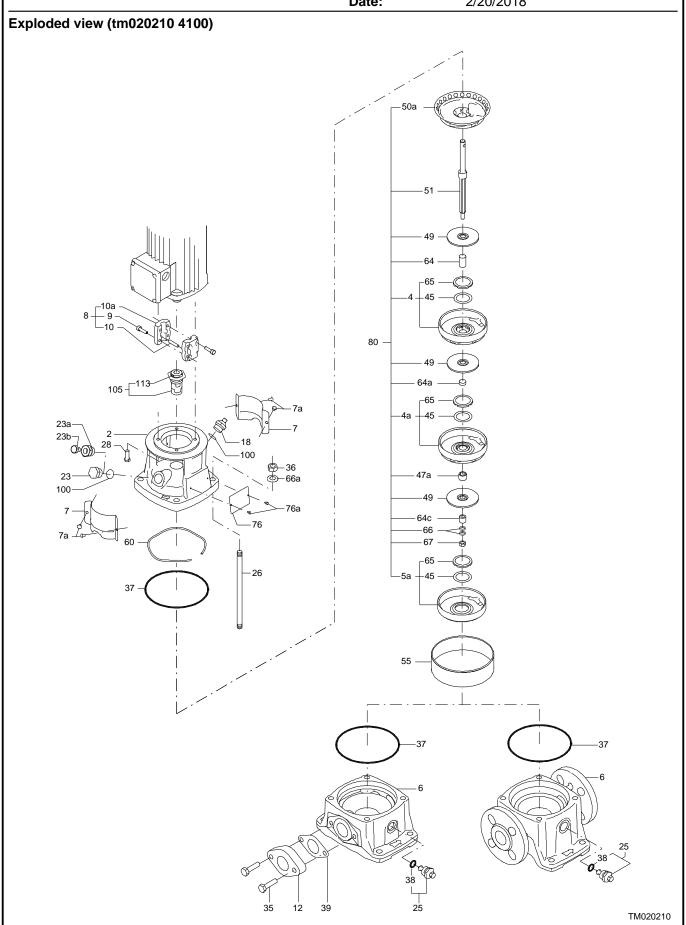
Amount: 1

Product No.: 96084371

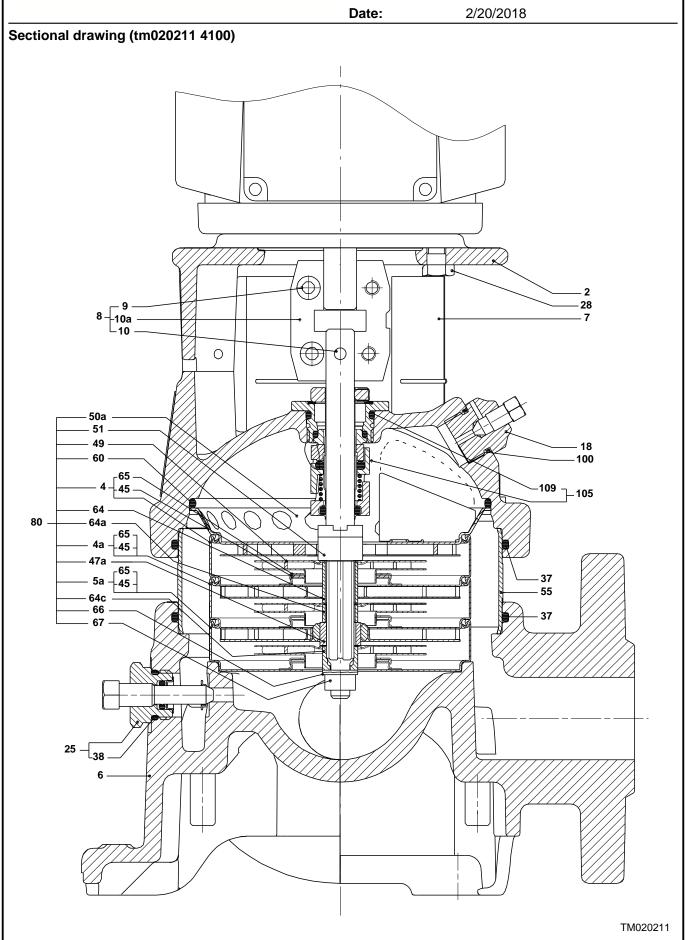
Total: Price on request



Date: 2/20/2018









**Date:** 2/20/2018

# Parts list CR 5-15, Prod number 96084371 Valid from 1.1.2004 (0401)

	Position	•	Annotation	Classification data	Part No.	Со	unt	Unit
		Motor				1		pcs
-		Base cpl.				1		pcs
6	6	Base					1	
-		Sealing parts				1		pcs
- 2	25	Drain plug w/bypass valve					1	
;	38	O-ring		Diameter: 16,3				
				Material type: FKM				
				Thickness: 2,4				
;	37	O-ring		Diameter: 137,5			2	
				Material type: FKM				
				Thickness: 3,3				
	100	O-ring		Diameter: 16,3			2	
				Material type: FKM				
				Thickness: 2,4				
- 2	2	Pump head cpl.				1		pcs
2	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	
		110/111000 00/01011		Thread: UNC 1/2"			-	
	60	Formed wire spring		11110dd: 0110 1/2			1	
+ 8		Coupling cpl.				1	•	pcs
	26	Staybolt Staybolt		Length: 427		4		pcs
	20	Claybon		Thread: M12		_		poo
	36a	Washer		Designation: DIN 125 A		4		pcs
<u> </u>	oou	vvasioi		Inner diameter: 13		_		poo
				Outer diameter: 24				
				Thickness: 2,5				
-	55	Outer sleeve		1111CK11633. 2,3		1		pcs
	66a	Nut		Thread: M12		4		pcs
	80	Chamber stack		TITICAU. WITZ		1		pcs
-		Guide vane cpl.					1	pos
		Guide vane					•	
		Plate						
	50b	Top plate						
	4	Chamber cpl.					11	
- '	7	Chamber cpi. Chamber					11	
		Retainer for seal ring Guide vane						
		Plate						
		Vane						
	15							
	45 05	Neck ring						
	65	Retainer					_	
- 4	4a	Chamber w. bearing cpl.					3	
		Chamber						
		Retainer for seal ring						
		Guide vane						



**Date:** 2/20/2018

Position	Description	Annotation	Classification data	Part No.	Count	Unit
	Retainer for bearing					
	Bearing bush					
	Vane					
45	Neck ring					
65	Retainer					
5a	Chamber cpl.				1	
	Chamber					
45	Neck ring					
65	Retainer					
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				3	
49	Impeller cpl.				15	
51	Shaft, spline, cpl.				1	
64.d	Spacing pipe		Length: 13.00		3	
64c	Clamp, splined		Inner diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
69	Spacing pipe		Length: 26.0		11	
69	Spacing pipe		Length: 2.00		1	
105	Shaft seal		Material type: HQQV		1	pcs
	O-ring				1	
	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				3	
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
109	O-ring				1	
113	Driver				1	