

#### Submittal Data

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



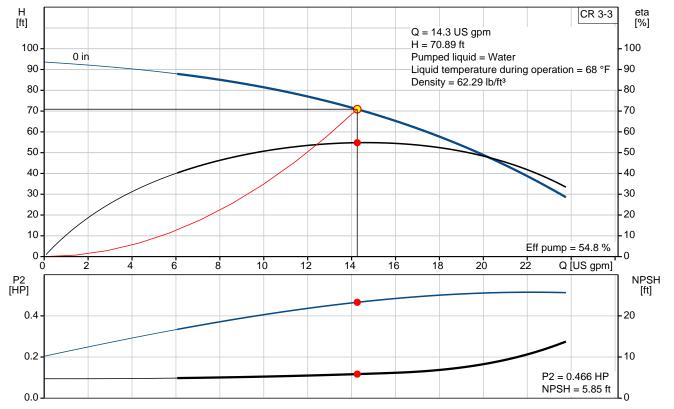
#### Product photo could vary from the actual product

#### CR 3-3

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)

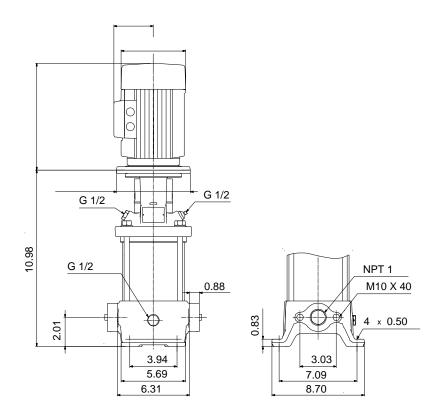
Conditions of Service					
Flow:	14.3 US gpm				
Head:	70.89 ft				
Efficiency:					
Liquid:	Water				
Temperature:	68 °F				
NPSH required:	5.85 ft				
Viscosity:					
Specific Gravity:	1.000				

	Pump Data	Motor Dat	а	
-	Max pressure at stated temperature: Shaft seal: Product number:	232 psi / 194 °F HQQV 96083112	Main 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



**Date:** 2/20/2018

#### **Tender Text**



Product photo could vary from the actual product

Product No.: 96083112 CR 3-3 A-B-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.

Controls:

Frequency converter: NONE

Liquid:

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

Technical:

Speed for pump data: 3485 rpm
Actual calculated flow: 14.3 US gpm
Resulting head of the pump: 70.89 ft
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQV

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:

Max pressure at stated temperature: 232 psi / 194 °F

232 psi / -4 °F



**Date:** 2/20/2018

Type of connection: Oval / NPT(F)

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: NEMA
Power (P2) required by pump: 0.5 HP

Others:

Net weight: 29.8 lb Gross weight: 40.8 lb Shipping volume: 4.94 ft³



**Date:** 2/20/2018

Position | Count | Description

1 CR 3-3 A-B-A-V-HQQV



Product photo could vary from the actual product

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ASTM A48-25B

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Installation:

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232 psi / -4 °F

Type of connection: Oval / NPT(F)

Size of suction port: 1 inch



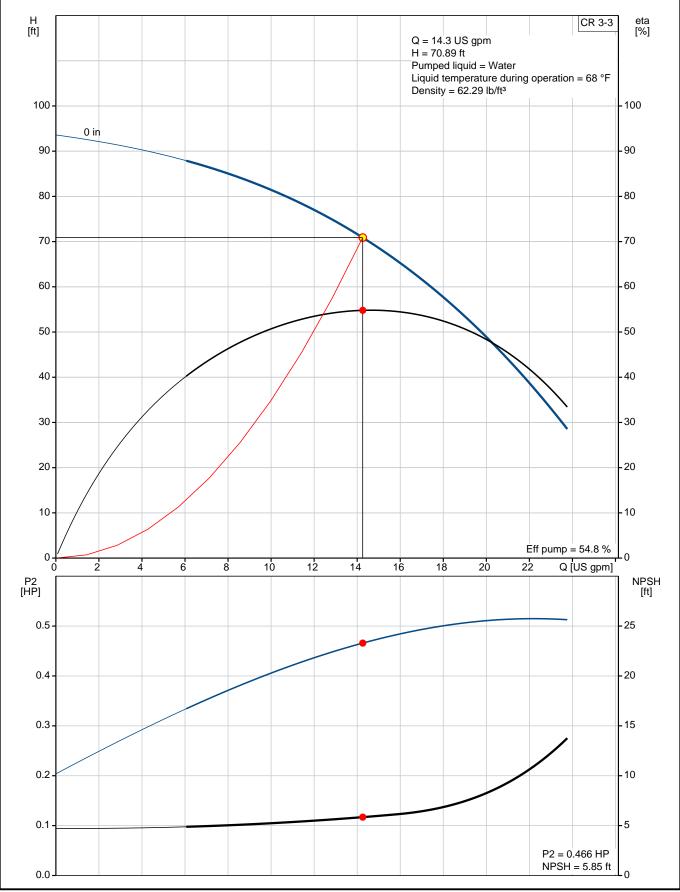
**Date:** 2/20/2018

Position   Count   Description				Date	<del>j</del> .	2/20/2018	
Size of outlet port: 1 inch Pressure rating: PN 16 Flange size for motor: 56C  Electrical data: Motor standard: NEMA Power (P2) required by pump: 0.5 HP  Others: Net weight: 29.8 lb Gross weight: 40.8 lb	Position	Count	Description				
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Power (P2) required by pump: 0.5 HP  Others:  Net weight: 29.8 lb  Gross weight: 40.8 lb			Motor standard:	NEMA			
Others: Net weight: 29.8 lb Gross weight: 40.8 lb			Power (P2) required by pump:				
Net weight: 29.8 lb Gross weight: 40.8 lb			Tower (12) required by partip.	0.0 1 11			
Net weight: 29.8 lb Gross weight: 40.8 lb			Others				
Gross weight: 40.8 lb			Others:	00.0.11			
Gross weight: 40.8 b Shipping volume: 4.94 ft <sup>a</sup>			Net weight:	29.8 lb			
Shipping volume: 4.94 ft9			Gross weight:				
			Shipping volume:	4.94 ft <sup>3</sup>			



**Date:** 2/20/2018

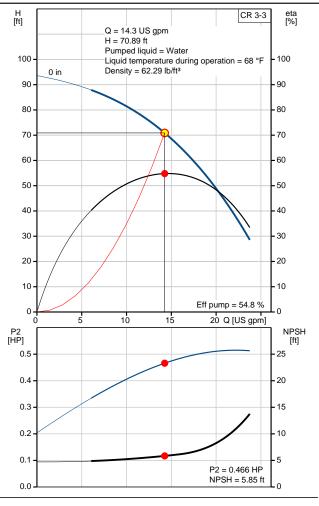
## 96083112 CR 3-3 60 Hz

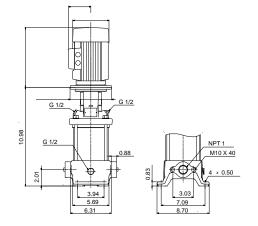




**Date:** 2/20/2018

CR 3-3 A-B-A-V-HQQV 16083112 16700395182804 16485 rpm 164.3 US gpm 170.89 ft 1858 1869 1
26083112 26700395182804 26485 rpm 4.3 US gpm 70.89 ft 3 3 3 4/ertical Single HQQV SO9906:2012 3B 4 4 4 Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304
6700395182804 6485 rpm 4.3 US gpm 70.89 ft 8 8 8/ertical Single HQQV SO9906:2012 3B A Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304 A
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Single HQQV SO9906:2012 3B A Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304 A
HQQV SO9906:2012 3B A Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel EN 1.4301 AISI 304
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ASTM A48-25B Stainless steel EN 1.4301 AISI 304
Stainless steel EN 1.4301 AISI 304 A
EN 1.4301 AISI 304 A
AISI 304 A
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/
BIC
232 psi / 194 °F 232 psi / -4 °F
Oval / NPT(F)
3
inch
inch
PN 16
66C
Vater
88 °F
62.29 lb/ft <sup>3</sup>
/L.20 ID/II
NEMA
NEIVIA ).5 HP
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IONE
00 0 lb
29.8 lb
6 6

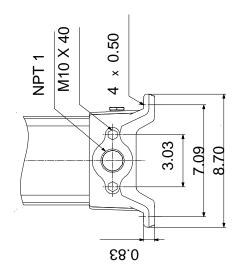


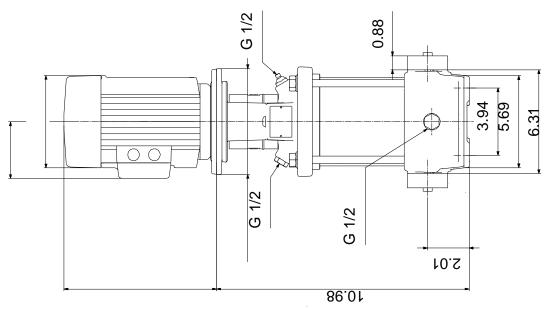




Date: 2/20/2018

96083112 CR 3-3 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

**Order Data:** 

Product name: CR 3-3 A-B-A-V-HQQV

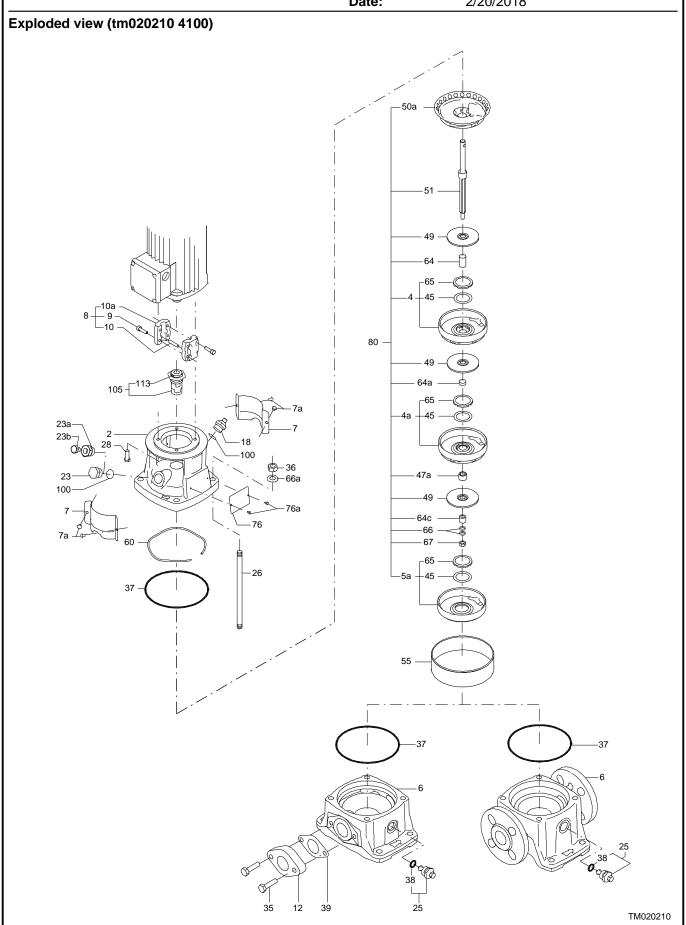
Amount: 1

Product No.: 96083112

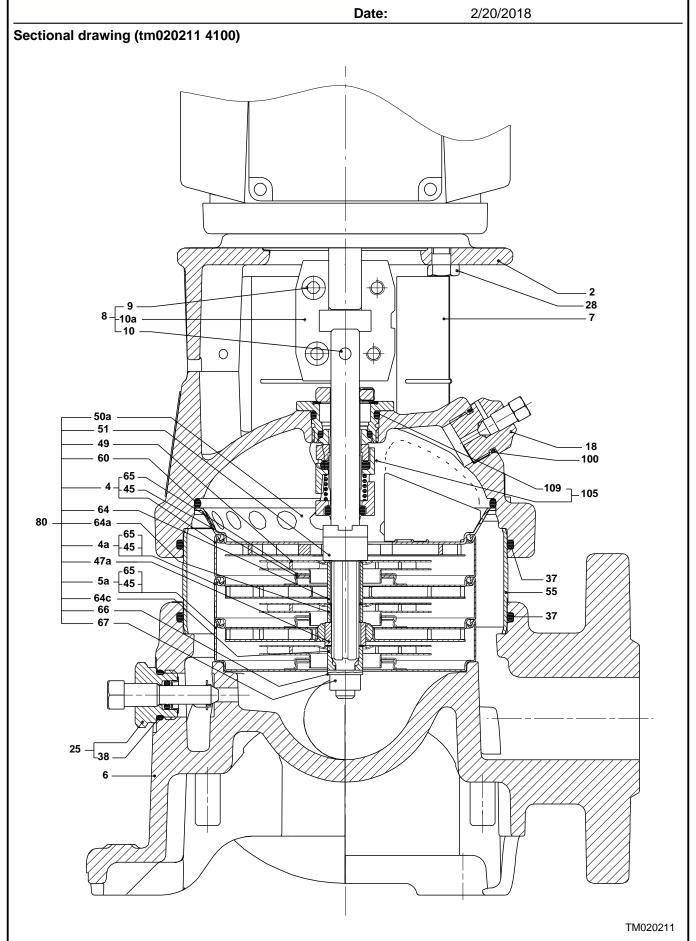
Total: Price on request



Date: 2/20/2018









**Date:** 2/20/2018

# Parts list CR 3-3, Prod number 96083112 Valid from 1.1.2004 (0401)

P09	sition	Description	Annotation	Classification data	Part No.		
_		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: 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		Pump head cpl.				1	рс
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	
				Thread: UNC 3/8"			
60		Formed wire spring				1	
8		Coupling cpl.				1	рс
26		Staybolt		Length: 79		4	pcs
				Thread: M12			F
36a	a	Washer		Designation: DIN 125 A		4	рс
000	•			Inner diameter: 13		•	Po
				Outer diameter: 24			
				Thickness: 2,5			
55		Outer sleeve				1	рс
66a	1	Nut		Thread: M12		4	рс
80	•	Chamber stack		044.11112		1	рс
105	5	Shaft seal		Material type: HQQV		1	рс
.00	,	O-ring		material type. How		1	PC.
		O-ring				1	
	O-ring				1		
	Seal driver, upper				1		
						1	
		Seal driver, lower					
		Spacer ring				1	
		Pipe				1	
		Plug				1	
		Plug				1	
		Compression spring				1	
		Socket set screw				3	
103	3	Seal ring, stationary				1	



**Date:** 2/20/2018

Position	Description	Annotation Classification data	Part No. Count Unit
105	Seal ring, rotating		1
109	O-ring		1
113	Driver		1