

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

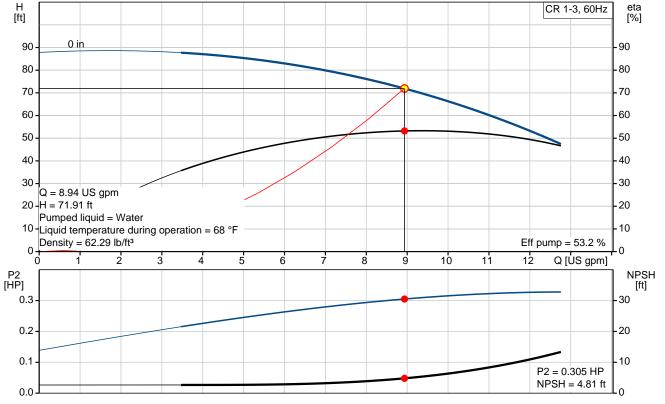
CR 1-3

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:	8.94 US gpm			
Head:	71.91 ft			
Efficiency:				
Liquid:	Water			
Temperature:	68 °F			
NPSH required:	4.81 ft			
Viscosity:				
Specific Gravity	1.000			

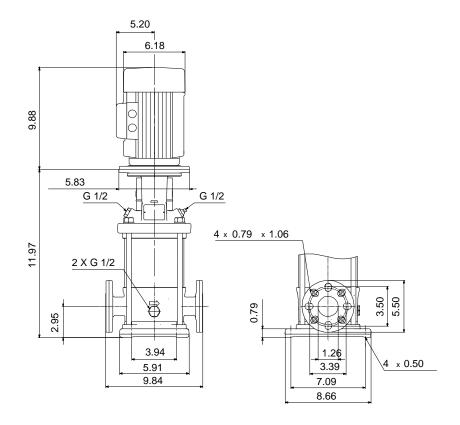
Pump Data	
Max pressure at stated temperature:	363 psi / 194 °F
Maximum ambient temperature:	104 °F
Approvals:	CURUS
Shaft seal:	HQQV
Product number:	96082207

	Motor Data			
1	Rated power - P2:	0.33 HP		
	Rated voltage:	115/230 V		
	Main frequency:	60 Hz		
	Insulation class:	В		
l	Motor type:	BALDOR		
l				
l				





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.: 96082207 CR 1-3 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:

Actual calculated flow:

Resulting head of the pump:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

3436 rpm

8.94 US gpm

71.91 ft

Vertical

Single

HQQV

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



Date: 2/20/2018

Size of suction port:

Size of outlet connection:

DN 25/32

Size of outlet port:

1 1/4 inch

Pressure rating:

PN 25

Flange size for motor:

Flange rating inlet:

56C

Electrical data:

NEMA Motor standard: Motor type: **BALDOR** IE Efficiency class: NA Rated power - P2: 0.33 HP Power (P2) required by pump: 0.33 HP Main frequency: 60 Hz Rated voltage: 1 x 115/230 V Service factor: 1,35 Rated current: 6,00/3,00 A

3450 rpm

Number of poles: 2 Insulation class (IEC 85): B

Others:

Rated speed:

Net weight: 58.2 lb Gross weight: 69.2 lb Shipping volume: 4.94 ft³



Date: 2/20/2018

Position | Count | Description

1 CR 1-3 A-FGJ-A-V-HQQV



Product No.: 96082207

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:
Actual calculated flow:
Resulting head of the pump:
Pump orientation:
Shaft seal arrangement:
Code for shaft seal:
Approvals on nameplate:

3436 rpm
8.94 US gpm
71.91 ft
Vertical
Single
HQQV
CURUS

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: 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 suction port: 1 1/4 inch



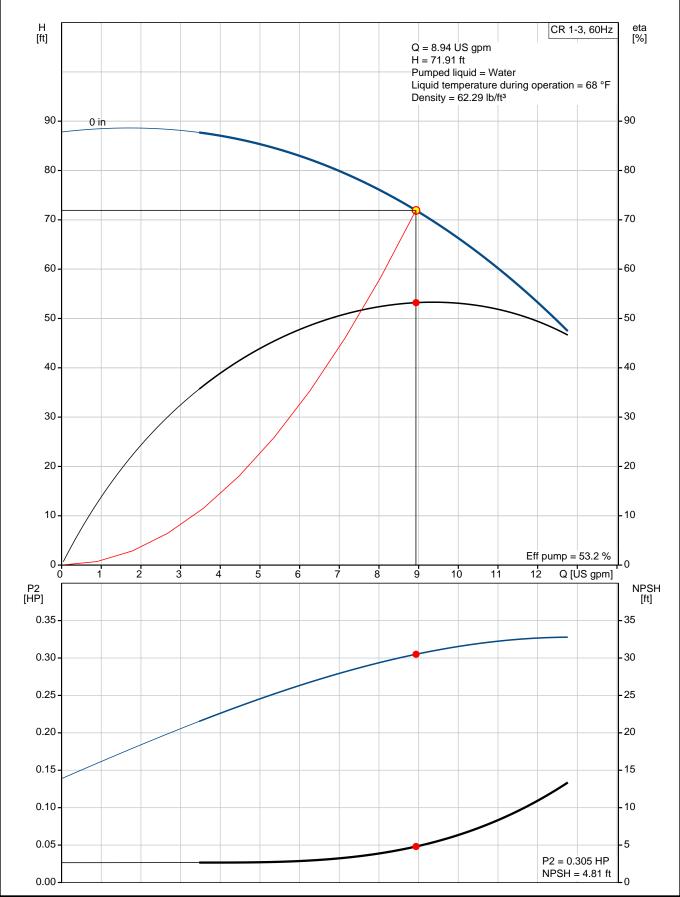
Date: 2/20/2018

			Date.	2/20/2010
Position	Count	Description		
		Size of outlet connection:	DN 25/32	
		Size of outlet port:	1 1/4 inch	
		Pressure rating:	PN 25	
		Flange size for motor:	56C	
		Flange rating inlet:	250 lb	
			250 10	
		Electrical data:		
		Motor standard:	NEMA	
		Motor type:	BALDOR	
		IE Efficiency class:	NA	
		Rated power - P2:	0.33 HP	
		Power (P2) required by pump:	0.33 HP	
		Main frequency:	60 Hz	
		Rated voltage:	1 x 115/230 V	
		Service factor:	1,35	
		Rated current:	6,00/3,00 A	
		Rated speed:	3450 rpm	
		Number of poles:	2	
		Insulation class (IEC 85):	В	
		Others:		
		Net weight:	58.2 lb	
		Gross weight:	69.2 lb	
		Shipping volume:	4.94 ft ³	
		Chipping voiding.	1.0110	
	•	•		



Date: 2/20/2018

96082207 CR 1-3 60 Hz

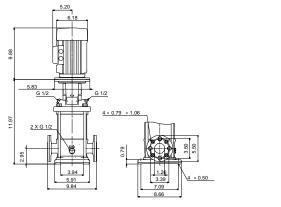


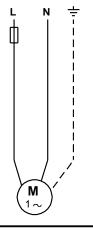


Date: 2/20/2018

Description	Value			
General information:				
Product name:	CR 1-3 A-FGJ-A-V-HQQV			
Product No.:	96082207			
EAN:	5700395169454			
Technical:				
Speed for pump data:	3436 rpm			
Actual calculated flow:	8.94 US gpm			
Resulting head of the pump:	71.91 ft			
Stages:	3			
Impellers:	3			
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			
	EN 1561 EN-GJL-200			
	ASTM A48-25B			
Impeller:	Stainless steel			
	EN 1.4301			
	AISI 304			
Material code:	A			
Code for rubber:	V			
Bearing material:	SIC			
Installation:				
Maximum ambient temperature:	104 °F			
	363 psi / 194 °F			
Max pressure at stated temperature:				
	363 psi / -4 °F			
Max pressure at stated temperature: Type of connection:				
	363 psi / -4 °F			
Type of connection:	363 psi / -4 °F DIN / ANSI / JIS			
Type of connection: Connect code: Size of inlet connection: Size of suction port:	363 psi / -4 °F DIN / ANSI / JIS FGJ			
Type of connection: Connect code: Size of inlet connection:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32			
Type of connection: Connect code: Size of inlet connection: Size of suction port:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data: Motor standard:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³ NEMA BALDOR			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³ NEMA BALDOR NA			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³ NEMA BALDOR NA 0.33 HP			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³ NEMA BALDOR NA 0.33 HP 0.33 HP			
Type of connection: Connect code: Size of inlet connection: Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor: Flange rating inlet: Liquid: Pumped liquid: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	363 psi / -4 °F DIN / ANSI / JIS FGJ DN 25/32 1 1/4 inch DN 25/32 1 1/4 inch PN 25 56C 250 lb Water 68 °F 62.29 lb/ft³ NEMA BALDOR NA 0.33 HP			

H [ft]	Q = 8.94 US gpm	eta [%]
90 -	H = 71.91 ft Pumped liquid = Water Liquid temperature during operation = 68 °F Density = 62.29 lb/ft³	- 90
80 -		-80
70 –		-70
60 -		-60
50 -		- 50
40 -		- 40
30 -		-30
20 –		-20
10 -		- 10
0 -	Eff pump = 53.2 %	0
P2 [HP]	2 4 6 8 10 Q [ÚS gpm]	NPSH [ft]
0.30 -		- 30
0.25 -		- 25
0.20 -		- 20
0.15 -		- 15
0.10 -		- 10
0.05 -	P2 = 0.305 HP NPSH = 4.81 ft	-5
0.00 -		L ₀







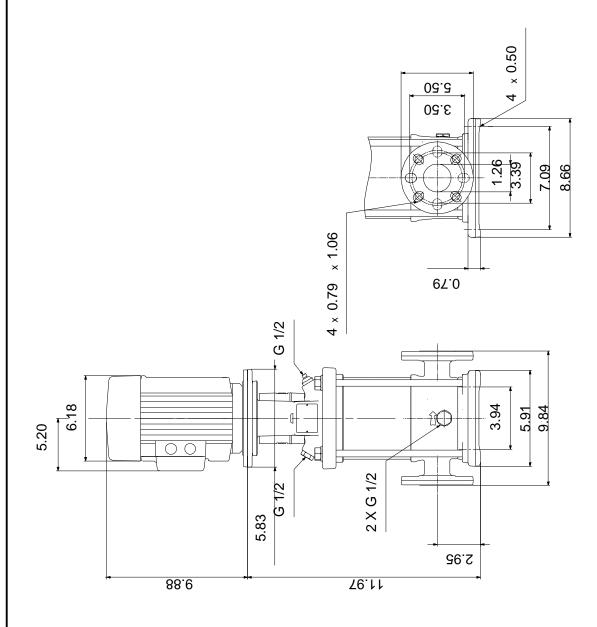
Date: 2/20/2018

Description	Value
Service factor:	1,35
Rated current:	6,00/3,00 A
Load current:	6,8/3,4 A
Rated speed:	3450 rpm
Number of poles:	2
Insulation class (IEC 85):	В
Motor Number:	85680001
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	58.2 lb
Gross weight:	69.2 lb
Shipping volume:	4.94 ft ³



Date: 2/20/2018

96082207 CR 1-3 60 Hz

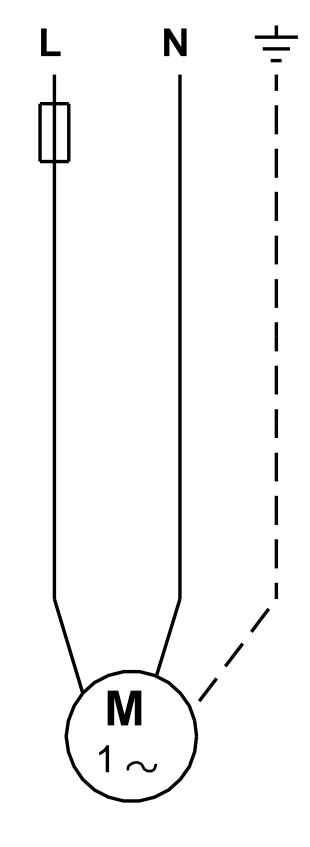


Note! All units are in [mm] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 2/20/2018

96082207 CR 1-3 60 Hz



All units are [mm] unless otherwise presented.



Date: 2/20/2018

Order Data:

Product name: CR 1-3 A-FGJ-A-V-HQQV

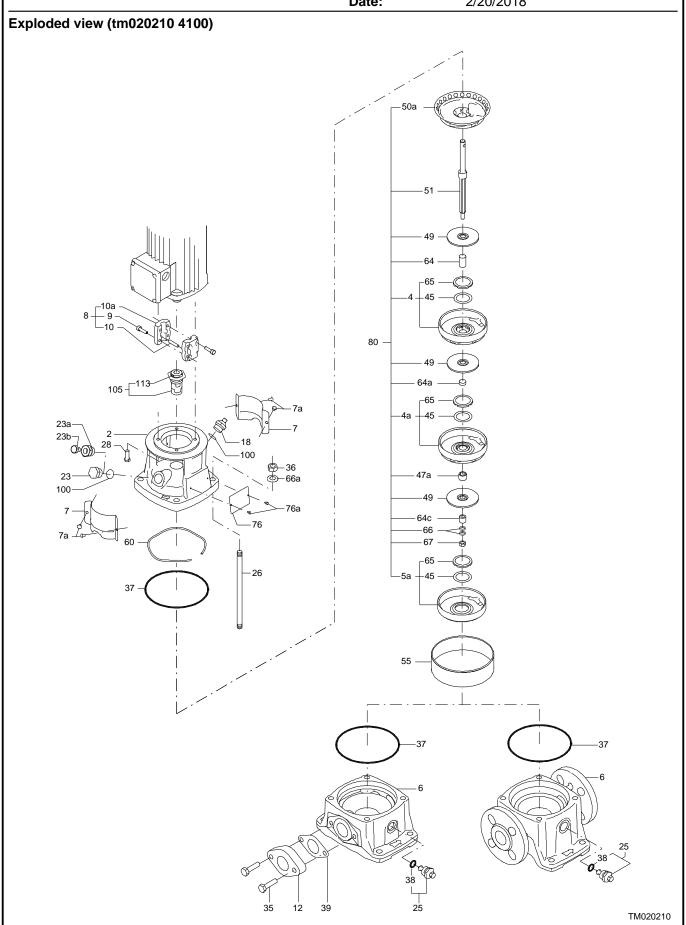
Amount: 1

Product No.: 96082207

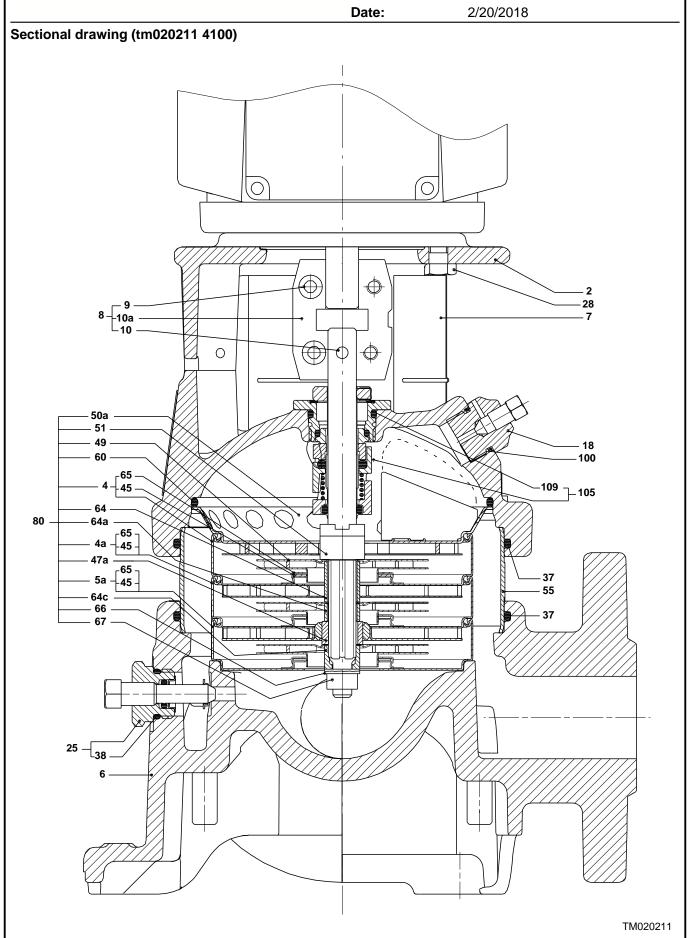
Total: Price on request



Date: 2/20/2018









Date: 2/20/2018

Parts list CR 1-3, Prod number 96082207 Valid from 1.1.2004 (0401)

	Position	Description	Annotation	Classification data	Part No.		
		Motor				1	pcs
-		Base cpl.				1	pcs
(6	Base				1	
-		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	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	Hex head cap sciew		Thread: UNC 3/8"		7	
	60	Formed wire spring		Tillead. ONC 3/8		1	
	8	Coupling cpl.				1	non
				Langth, 70			pcs
	26	Staybolt		Length: 79		4	pcs
	00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Thread: M12		_	
	36a	Washer		Designation: DIN 125 A		4	pcs
				Inner diameter: 13			
				Outer diameter: 24			
				Thickness: 2,5			
	55	Outer sleeve				1	pcs
	66a	Nut		Thread: M12		4	pcs
	80	Chamber stack		Bearing type: SILICON CARBIDE		1	pcs
-	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	
		Jing					