

# Submittal Data

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

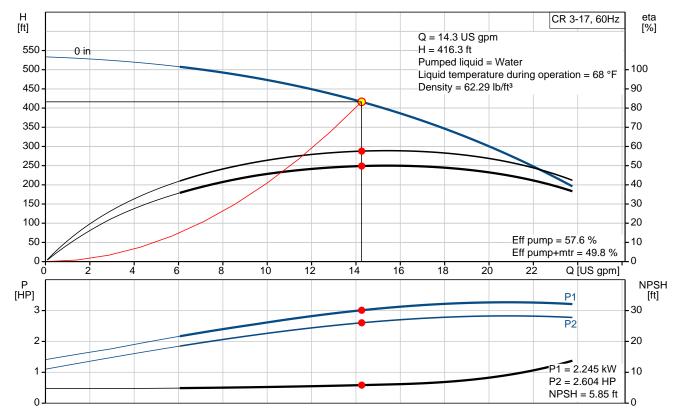


## CR 3-17

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)

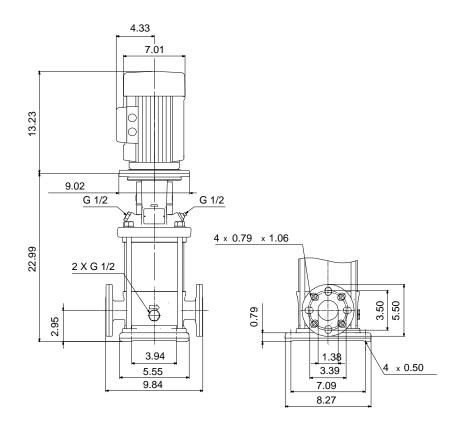
Product photo could vary from the actual product

Conditions	of Service	Pump Data		Moto	or Data
Flow:	14.3 US gpm	Max pressure at stated temperature:	363 psi / 250 °F	Rated power - P2:	3 HP
Head:	416.3 ft	Maximum ambient temperature:	140 °F	Rated voltage:	208-230YY/460Y V
Efficiency:	49.8 %	Approvals:	CURUS,NSF61	Main frequency:	60 Hz
Liquid:	Water	Shaft seal:	HQQE	Enclosure class:	55 Dust/Jetting
Temperature:	68 °F	Product number:	96083226	Insulation class:	F
NPSH required:	5.85 ft			Motor protection:	NONE
Viscosity:				Motor type:	90FA
Specific Gravity:	1.000			Motor_efficiency:	86.5 %



# Submittal Data





Materials:

Impeller:

Base:

Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel AISI 304 EN 1.4301 Material code: А Code for rubber: E

2/18



2/20/2018

**Tender Text** 



Product No.: 96083226 CR 3-17 A-FGJ-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 The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. The motor is a 3-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: 3461 rpm Actual calculated flow: 14.3 US gpm Resulting head of the pump: 416.3 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CURUS,NSF61 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: 140 °F Max pressure at stated temperature: 363 psi / 250 °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:	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
Electrical data:	

Motor standard:	NEMA
Motor type:	90FA
IE Efficiency class:	NEMA Premium / IE3 60Hz
Rated power - P2:	3 HP
Power (P2) required by pump:	3 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1,15
Rated current:	8,35-7,80/3,9 A
Starting current:	940-1040 %
Cos phi - power factor:	0,89-0,86
Rated speed:	3510-3530 rpm
IE efficiency:	IE3 86,5%
Motor efficiency at full load:	86.5 %
Motor efficiency at 3/4 load:	86.5 %
Motor efficiency at 1/2 load:	84.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F

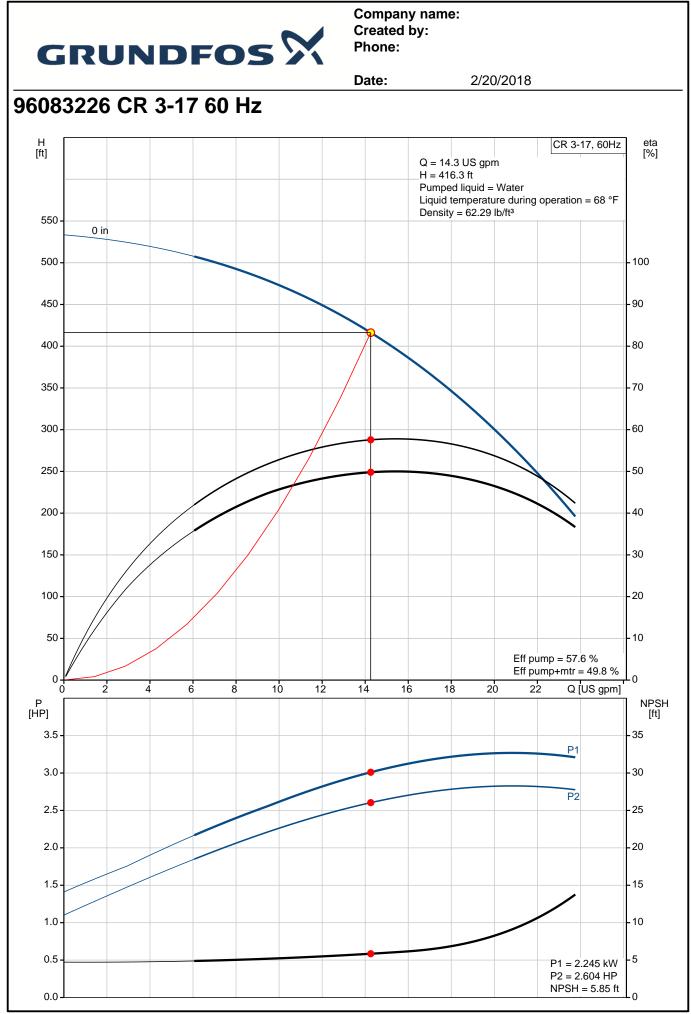
### Others:

Net weight:	106 lb
Gross weight:	121 lb
Shipping volume:	8.26 ft <sup>3</sup>

G	RU		Company nam Created by: Phone:	e:	
			Date:	2/20/2018	
Position	Count	Description			
	1	CR 3-17 A-FGJ-A-E-HQQE			
		<ul> <li>Product No.: 96083226</li> <li>Vertical, non-self-priming, multistic centrifugal pump for installation i and mounting on a foundation.</li> <li>The pump has the following char <ul> <li>Impellers and intermediat</li> <li>The shaft seal has assem according to EN 12756.</li> <li>Power transmission is via coupling.</li> </ul> </li> </ul>	n pipe systems acteristics: e chambers are made of bly length		
		The motor is a 3-phase AC moto	r.		
		Controls: Frequency converter:	NONE		
		Liquid: Pumped liquid: Liquid temperature during operat Density:	Water tion: 68 °F 62.29 lb/ft³		
		<b>Technical:</b> Speed for pump data: Actual calculated flow: Resulting head of the pump: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	3461 rpm 14.3 US gpm 416.3 ft Vertical Single HQQE CURUS,NSF61 ISO9906:2012 3B		
		<b>Materials:</b> Base:	Cast iron EN 1561 EN-GJL-200		
		Impeller:	ASTM A48-25B Stainless steel EN 1.4301		
		Bearing material:	AISI 304 SIC		
		Installation: Maximum ambient temperature: Max pressure at stated temperat	ure: 363 psi / 250 °F 363 psi / -4 °F		
		Type of connection: Size of inlet connection: Size of suction port:	DIN / ANSI / JIS DN 25/32 1 1/4 inch		

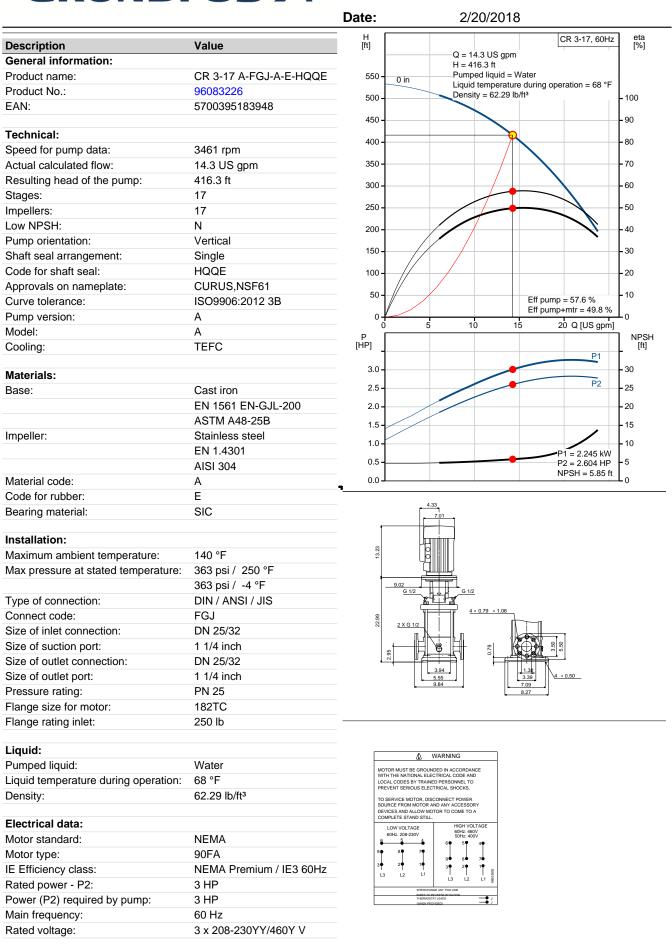


			Date:	2/20/2018
Position	Count	Description		
		Size of outlet connection:	DN 25/32	
		Size of outlet port:	1 1/4 inch	
		Pressure rating:	PN 25	
		Flange size for motor:	182TC	
		Flange rating inlet:	250 lb	
		Electrical data:		
		Motor standard:	NEMA	
		Motor type:	90FA	
		IE Efficiency class:	NEMA Premium / IE3 60Hz	
		Rated power - P2:	3 HP	
		Power (P2) required by pump:	3 HP	
		Main frequency:	60 Hz	
		Rated voltage:	3 x 208-230YY/460Y V	
		Service factor:	1,15	
		Rated current: Starting current:	8,35-7,80/3,9 A 940-1040 %	
		Cos phi - power factor:	0,89-0,86	
		Rated speed:	3510-3530 rpm	
		IE efficiency:	IE3 86,5%	
		Motor efficiency at full load:	86.5 %	
		Motor efficiency at 3/4 load:	86.5 %	
		Motor efficiency at 1/2 load:	84.0 %	
		Number of poles:	2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		Others:		
		Net weight:	106 lb	
		Gross weight:	121 lb	
		Shipping volume:	8.26 ft <sup>3</sup>	
	1	1		



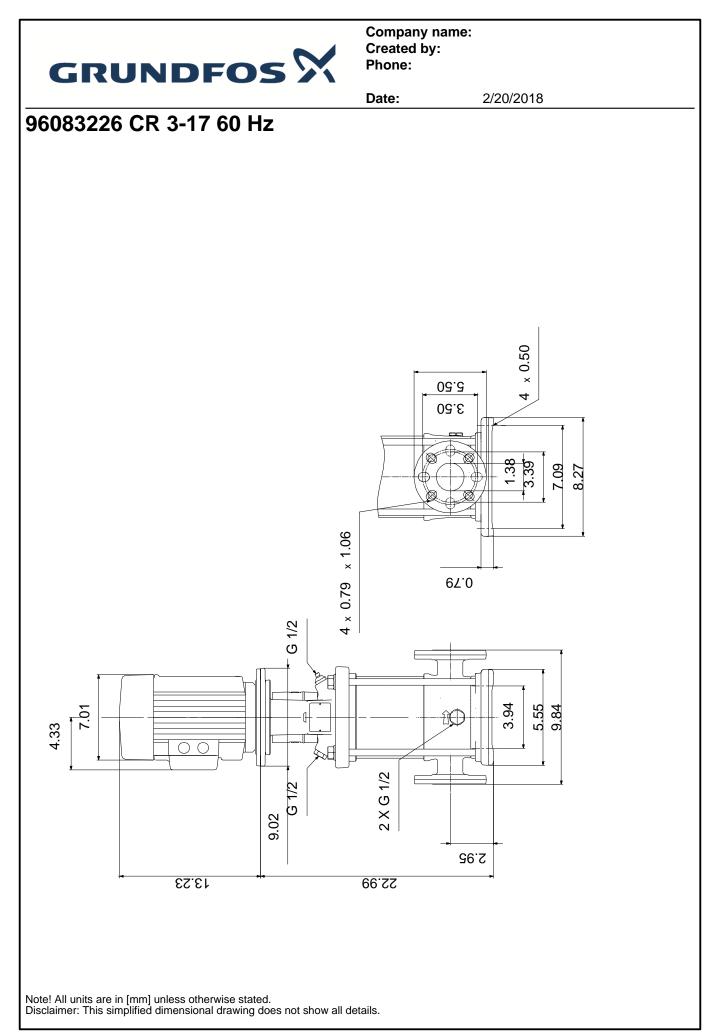
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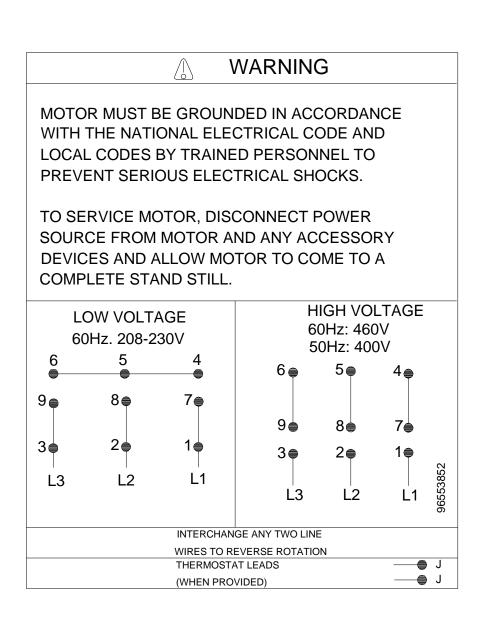
		Date:	2/20/2018	
Description	Value			
Service factor:	1,15			
Rated current:	8,35-7,80/3,9 A			
Starting current:	940-1040 %			
Load current:	9,5-8,95/4,5 A			
Cos phi - power factor:	0,89-0,86			
Rated speed:	3510-3530 rpm			
IE efficiency:	IE3 86,5%			
Motor efficiency at full load:	86.5 %			
Motor efficiency at 3/4 load:	86.5 %			
Motor efficiency at 1/2 load:	84.0 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protection:	NONE			
Motor Number:	85903977			
Controls:				
Frequency converter:	NONE			
0//				
Others:				
Net weight:	106 lb			
Gross weight:	121 lb			
Shipping volume:	8.26 ft <sup>3</sup>			





2/20/2018

96083226 CR 3-17 60 Hz



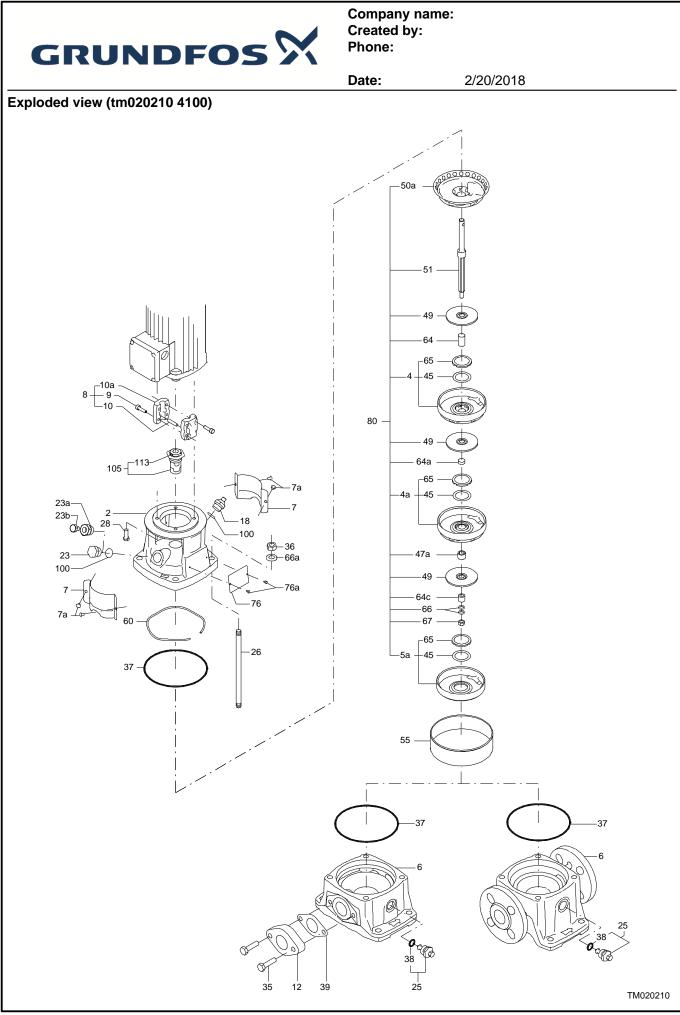


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**Order Data:** 

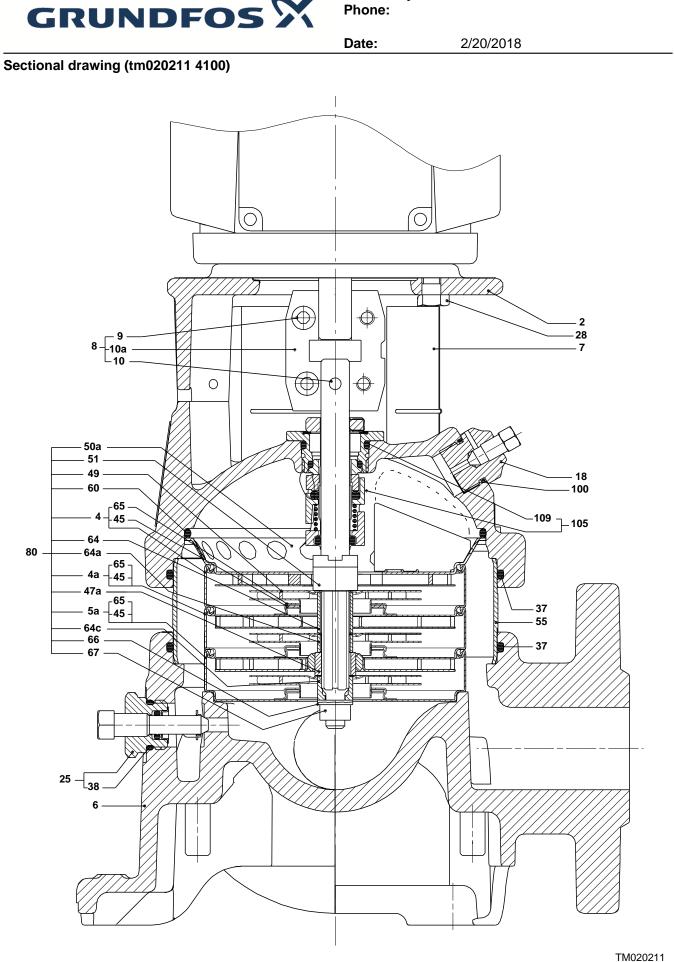
Product name: CR 3-17 A-FGJ-A-E-HQQE Amount: 1 Product No.: 96083226

Total: Price on request





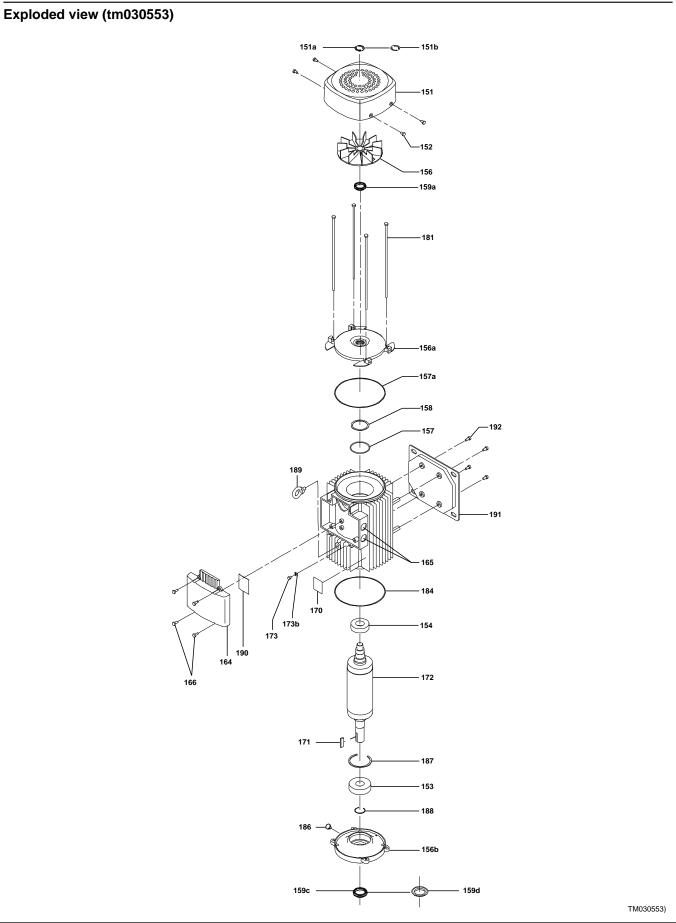
Company name: Created by:







2/20/2018





Sectional drawing (TM031465)

151 -

152 -

191

Company name: Created by: Phone:

2/20/2018

- 156

159a

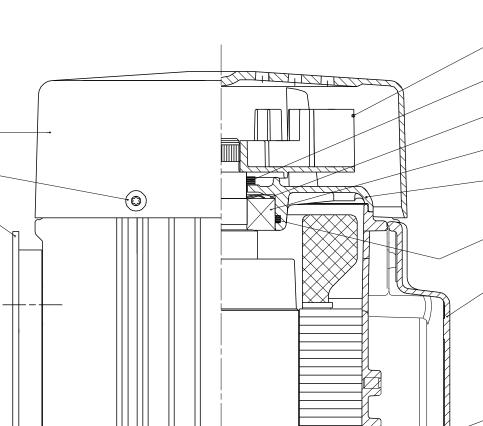
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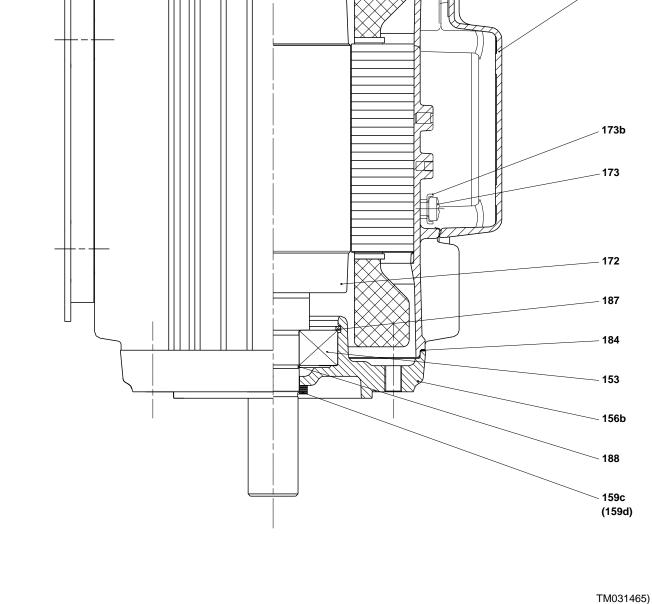
154

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157

164







Date:

2/20/2018

### Parts list CR 3-17, Prod number 96083226 Valid from 1.7.2011 (1127)

	Position	Description	Annotation	Classification data	Part No.	Οοι	Int	Unit
ł		Motor				1		pcs
		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				
		<b>eg</b>		Material type: EPDM				
				Thickness: 2,4				
	37	O-ring		THICKI1033. 2,4			2	
	100	-		Diamatary 16.2			2 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	Hex head cap sciew		Thread: UNC 1/2"			4	
	00	E a mar a di su ina cana nin a		Thread: UNC 1/2				
	60	Formed wire spring					1	
	8	Coupling cpl.				1		pcs
	9	Hex socket head cap screw		Designation: DIN 912	2		4	
				Length: 25				
				Thread: M8				
	10	Shaft pin		Diameter: 5			1	
				Length: 26				
	10a	Coupling half					2	
	26	Staybolt		Length: 328		4		pcs
				Thread: M12				
	36a	Washer		Designation: DIN 125 A		4		pcs
				Inner diameter: 13		-		1- 00
				Outer diameter: 24				
				Thickness: 2,5				
	55	Outor cloove		111011035. 2,3		1		nec
	55	Outer sleeve		Thursday MAC		1		pcs
	66a	Nut		Thread: M12		4		pcs
-	80	Chamber stack				1		pcs
-		Guide vane cpl.					1	
		Guide vane						
		Plate						
	50b	Top plate						
	4	Chamber cpl.					14	
		Guide vane						
		Plate						
		Retainer						
		Intermediate chamber						
	4 -	Vane						
	45	Neck ring						



			Date:	2/2	0/2018	
Position	Description	Annotation	Classification data	Part No.	Count	Unit
65	Retainer					
4a	Chamber w. bearing cpl.				2	
	Guide vane					
	Retainer for bearing					
	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.				17	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				14	
64a	Spacing pipe		Inner diameter: 12,8	35	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	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			
	Seal ring, stationary				1	
103	Sour mig, stationary					
103 105	Seal ring rotating				1	
103 105 107	Seal ring, rotating O-ring				1	