

# Technical data

Pump name EVML32 2-2F5/3.0

Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

## Requested data

1	Pump type	VERTICAL PUMPS	Fluid	"Water, clean"
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K 293
3	Flow	m³/h 28	Kin. viscosity	mm²/s 1
4	Head	m 20	Vapour pressure	kPa 2.2
5	Static head	m 0	PH value	7
6	Inlet pressure	kPa 0	Density	kg/m³ 1000
7	Available system NPSH	0	Solids	Weight % 0
8	Environmental temperature	K 290		

## Pump

9	Pump name	EVML32 2-2F5/3.0	Frequency	Hz 50
10	Design	VERTICAL PUMPS	Installation type	STANDARD
11	Manufacturer	EPE	Impeller	Max. mm -
12	Speed	1/min 2900	Diameter	Designed mm 125(No.2)
13	No. of Stage	2		Min. mm -
14	Connection	Suction side	Flow	Operating m³/h 30.4
15	Connection	Discharge side		Max- m³/h 36
16	Max Working Pressure	kPa 1600		Min- m³/h 12
17	Shut-off head	kPa 389.86	Head	Operating m 23.6
18	Total weight	kg See the table of "Dimensions".		- (Qmax.) m 17.6
19	Shaft power	kW 2.89		- (Qmin.) m 36.9
20			Max. Shaft Power at max. impeller	kW 2.86
21	Required NPSH	m 2.7	Efficiency	% 66.1

## Materials

22	Impeller	AISI 316		
23	Intermediate casing	AISI 316		
24	Bottom casing	ASTMCF8M		
25	Shaft	AISI 316		
26				
27				

## Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_EVM32 2-2F5/3.0_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	100
31	Rated power	kW 3	Weight	kg 22.8
32	Number of poles	2	Electric voltage	V 230
33	Speed	1/min 2900	Electric current	A 9.7
34	Degree of protection	IP 55		
35				

## Remarks

# Performance curve

Pump name EVML32 2-2F5/3.0

Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

## Requested data

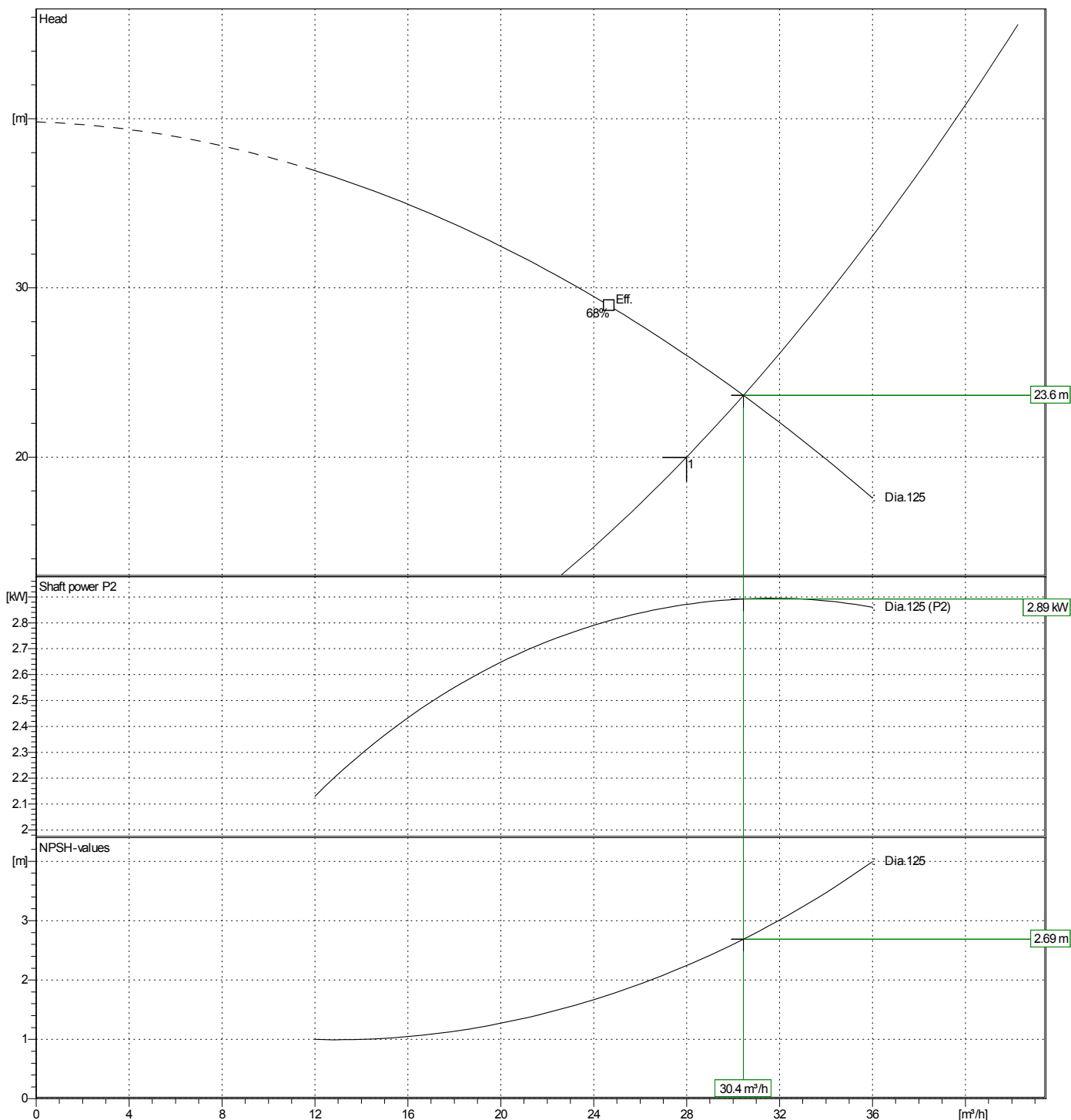
1	Flow	m³/h	28
2	Head	m	20
3	Static head	m	0

## Pump

Operating Flow	m³/h	30.4	Impeller Diameter Designedmm	125(No.2)
Operating Head	m	23.6	Frequency	Hz 50
			Speed	1/min 2900

Test standard: ISO 9906:2012 - Grade3B

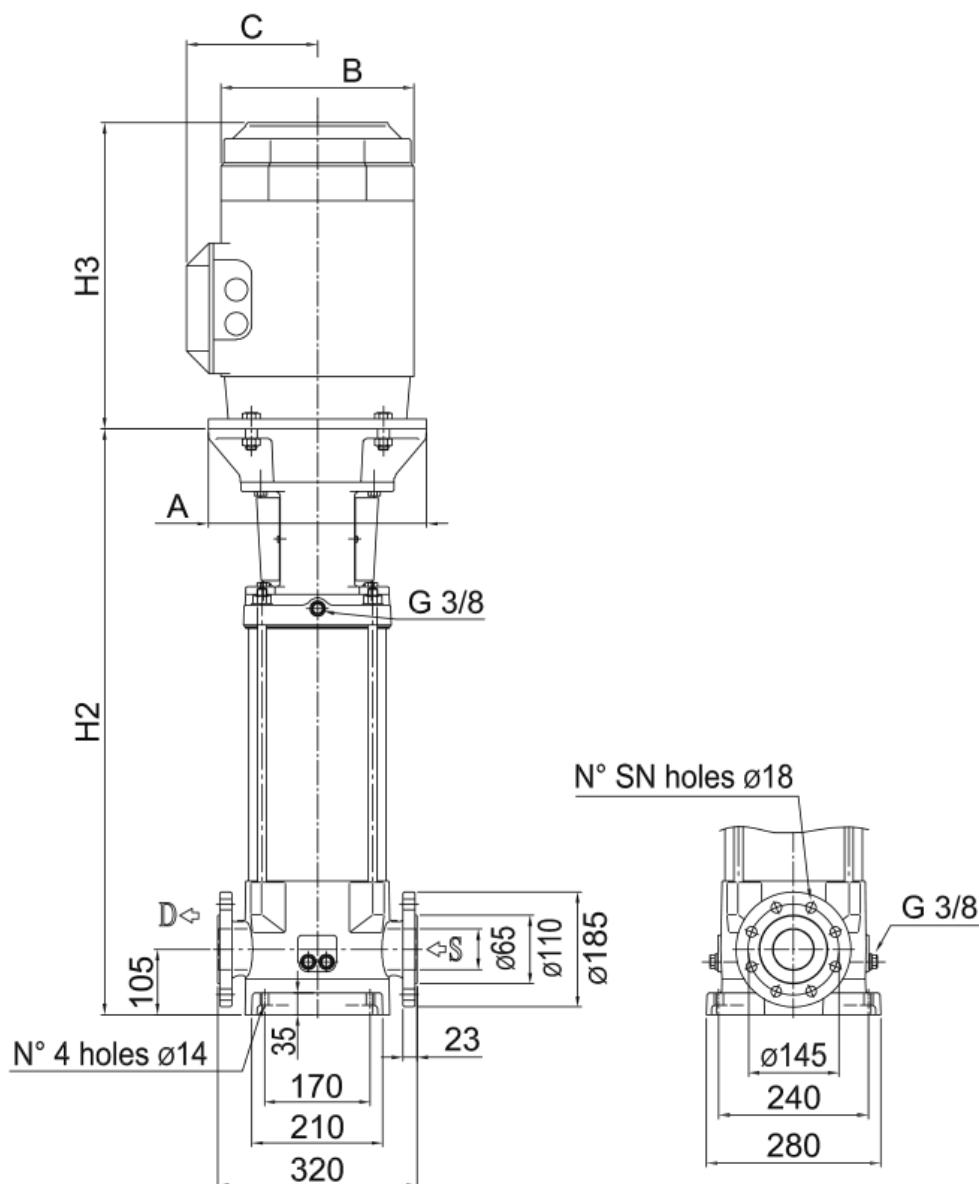
Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s



# Dimensions

Pump name EVML32 2-2F5/3.0

Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

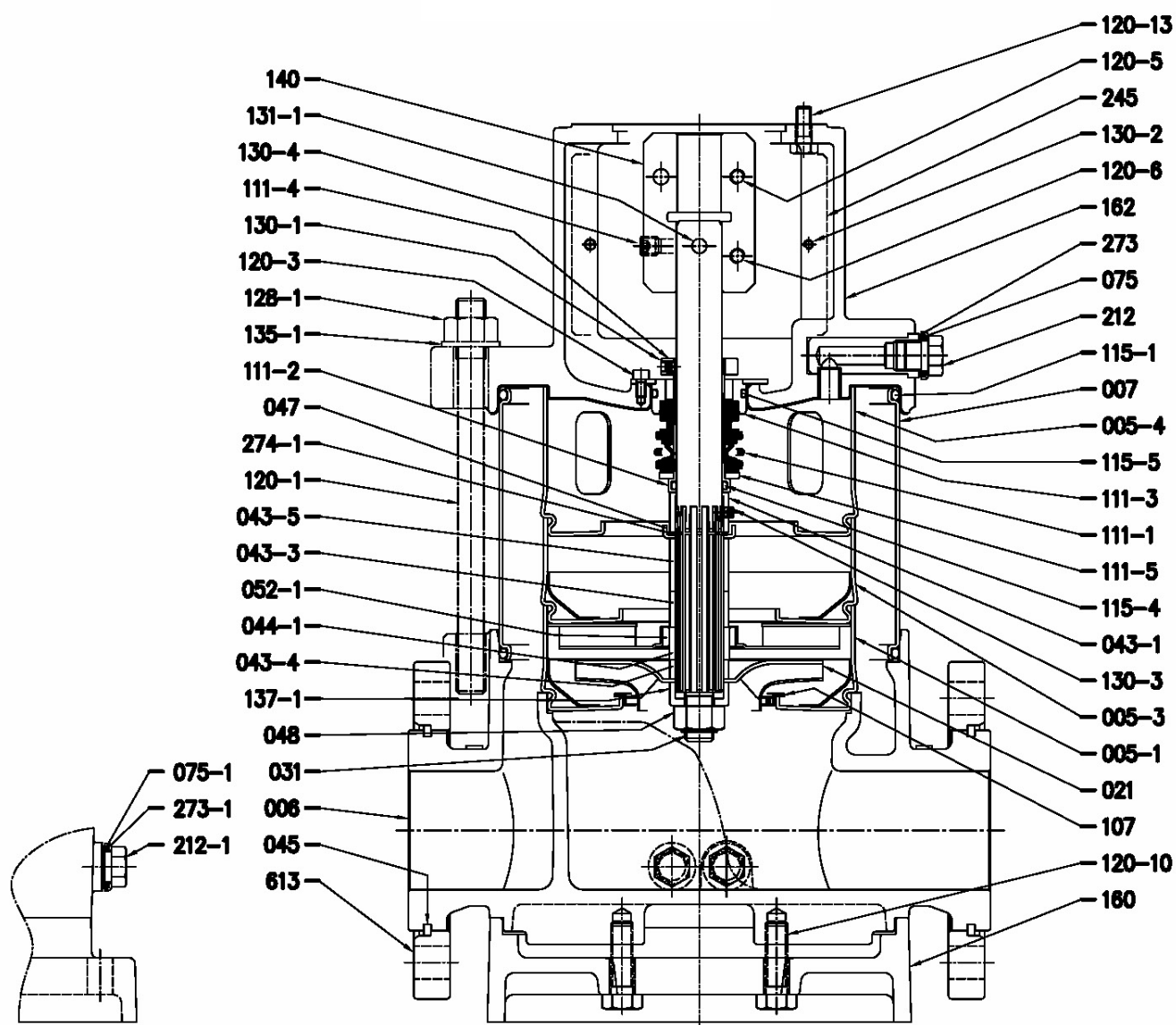


Dimensions in mm							
1	A	196					
2	B	196					
3	C	155					
4	H2	503					
5	H3	306					
6	SN	4 (Num)					
7	Weight P&M	80.8 kg					

# (1/4) Construction

Pump name EVML32 2-2F5/3.0

Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



# (2/4) Construction

Pump name **EVML32 2-2F5/3.0**

Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD	Q.TY
		EVM	EVML			
005-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
005-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			[1]
005-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
006	Bottom casing	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)			1
007	Outer casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
021	Impeller	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			[1]
031	Shaft	EN 1.4401 (AISI 316)				1
043-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
043-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			[1]
043-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			[1]
043-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
044-1	Shaft sleeve bearing	Tungsten carbide				[1]
045	Flange holder	EN 1.402 (AISI 420)				4
047	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
048	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M16		1
052-1	Bearing	Tungsten carbide				[1]
075	O-Ring (plug)	EPDM	FPM			1
075-1	O-Ring (plug)	EPDM	FPM			4
107	Liner ring	PTFE / EN 1.4301 (AISI 304)	PTFE / EN 1.4401 (AISI 316)			[1]
111-1	Mechanical seal	Silicon carbide / Carbon / FPM				1
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
111-4	Seal holder	Brass OT 58 UNI 5705	EN 1.4401 (AISI 316)			1
111-5	Adjusting ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			[1]
115-1	O-Ring (outer casing)	EPDM	FPM	D.208.91x5.34		2
115-4	O-Ring (cartridge sleeve)	EPDM	FPM	D. 24.99x3.59		1
115-5	O-Ring (seal cover)	EPDM	FPM	D.44,04x3,53		1
120-1	Tie-rod	Zincate steel 6.8 strenght class ISO 898/1				4
120-3	Screw	A2-70 UNI 7323		M5xX10	UNI 5931	4
120-5	Screw for coupling	EVM32 1	Zincate steel 8.8 strenght class ISO 898/1	M6x16	UNI 5931	[1]
		EVM32 2 and 2-2		M8x20	UNI 5931	
		EVM32 5 to 14		M10x30	UNI 5739	
120-6	Screw for coupling	EVM32 1	Zincate steel 8.8 strenght class ISO 898/1	M6x16	UNI 5931	2
		EVM32 2 to 4-3		M8x20	UNI 5931	
		EVM32 5 to 14		M12x30	UNI 5931	
120-10	Screw	Zincate steel 8.8 strenght class ISO 898/1		M12x40	UNI 5739	4
120-13	Screw for motor	EVM32 1 to 2	Zincate steel 8.8 strenght class ISO 898/1	M8x20	UNI 5739	4
		EVM32 3 to 4		M12x30	UNI 5739	
		EVM32 5 to 14		M16x65	UNI 5739	
128-1	Nut for tie rod	Zincate steel		M16	UNI 5588	4
130-1	Set screw	A2-70 UNI 7323		M6x8	UNI 5923	3
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687	4
130-3	Set screw	A2-70 UNI 7323		M6x6	UNI 5923	1
130-4	Set screw	Carbon steel		M10x10	UNI 5923	1
131-1	Pin for shaft	Carbon Steel				1
135-1	Washer	Zincate steel		17x30x3	UNI 6592	4
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
140	Coupling	Brass OT 58 UNI 5705				[1]
160	Base	Cast iron EN-GJL-200-EN 1561				1
162	Motor bracket	Cast iron EN-GJL-200-EN 1561				1
212	Plug	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			4
245	Coupling guard	EN 1.4301 (AISI 304)				2
273	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			4
274-1	C-type snap ring (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	D.26	UNI 7435	1
613	Flange	Carbon steel				2

[1] See table on **CONSTRUCTION 3**

# (3/4) Construction

Pump name EVML32 2-2F5/3.0

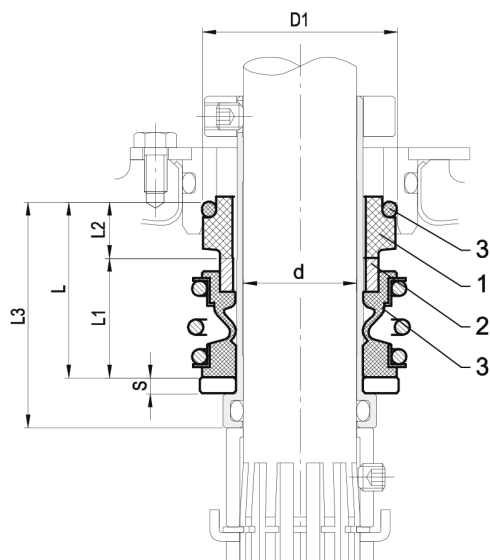
Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Pump Type EVM( )	Quantity for model																														
	005-2	005-3	011	021	021-1	039-1	043-2	043-3	043-4	044-1	051	052-1	056	070-1	107	111-5	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3
32 1-0F5/2.2	/	1	/	1	/	/	/	1	1	1	/	1	/	/	1	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/
32 2-2F5/3.0	/	1	/	/	2	/	/	1	1	1	/	1	/	/	2	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/
32 2-0F5/4.0	/	1	/	2	/	/	/	1	1	1	/	1	/	/	2	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/

# (4/4) Construction

Pump name EVML32 2-2F5/3.0

Customer	Date 08-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



Size [mm]	Max operating pressure [bar]	d [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	S [mm]	Material		
									1 Stationary Seal Ring	2 Rotary Seal Ring	3 Rubber
25	25	25	43	39	26.5	12.5	50	3.5	Carbon graphite	Silicon carbide	FPM