Technical data

Pump name (*See Product description)EVM64 1-0F5/5

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-13 20:42:	E-mail

Requested data

1	Pump type	VERTICAL PUMPS	Fluid		Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C	20
3	Flow m³/h		Kin. viscosity	mm²/s	1.005
4	Head m		Vapour pressure	bar	0.0234
5	Geodetic head m		PH value		
6	Inlet pressure (pin) bar	0	Density	kg/m³	998.3
7	Available system NPSH		Solids	Weight %	0
8	Ambient temperature °C	20			

Pump

9	Pump name	(*See Product description)EVM64 1-0F5/5.5	Frequency		Hz	50
10	Design	VERTICAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	-
12	Speed rpm	2900		Designed	mm	
13	No. of Stage	1		Min.	mm	-
14	Connection Suction side		Flow	Operating	m³/h	
15	Connection Discharge side			Max-	m³/h	84
16	Max Working Pressure bar	16		Min-	m³/h	30
17	Shut-off head bar	2.87	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	13.5
19	Shaft power kW			- (Qmin.)	m	26.7
20			Max. Shaft Power at max. impeller		kW	5.39
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 304		
23	Intermediate casing	AISI 304		
24	Bottom casing	ASTMCF8		
25	Shaft	AISI 316		
26				
27				

Motor

28	Manufacturer	ETM	Insulation class		F
29	Type	TEFC_EVM64 1-0F5/5.5_400_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		132
31	Rated power kW	5.5	Weight	kg	39
32	Number of poles	2	Electric voltage	V	400
33	Speed rpm	2925	Electric current	A	10.4
34	Degree of protection	IP 55			
35					

Remarks

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Performance curve

Pump name (*See Product description)EVM64 1-0F5/5.5

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Requested data

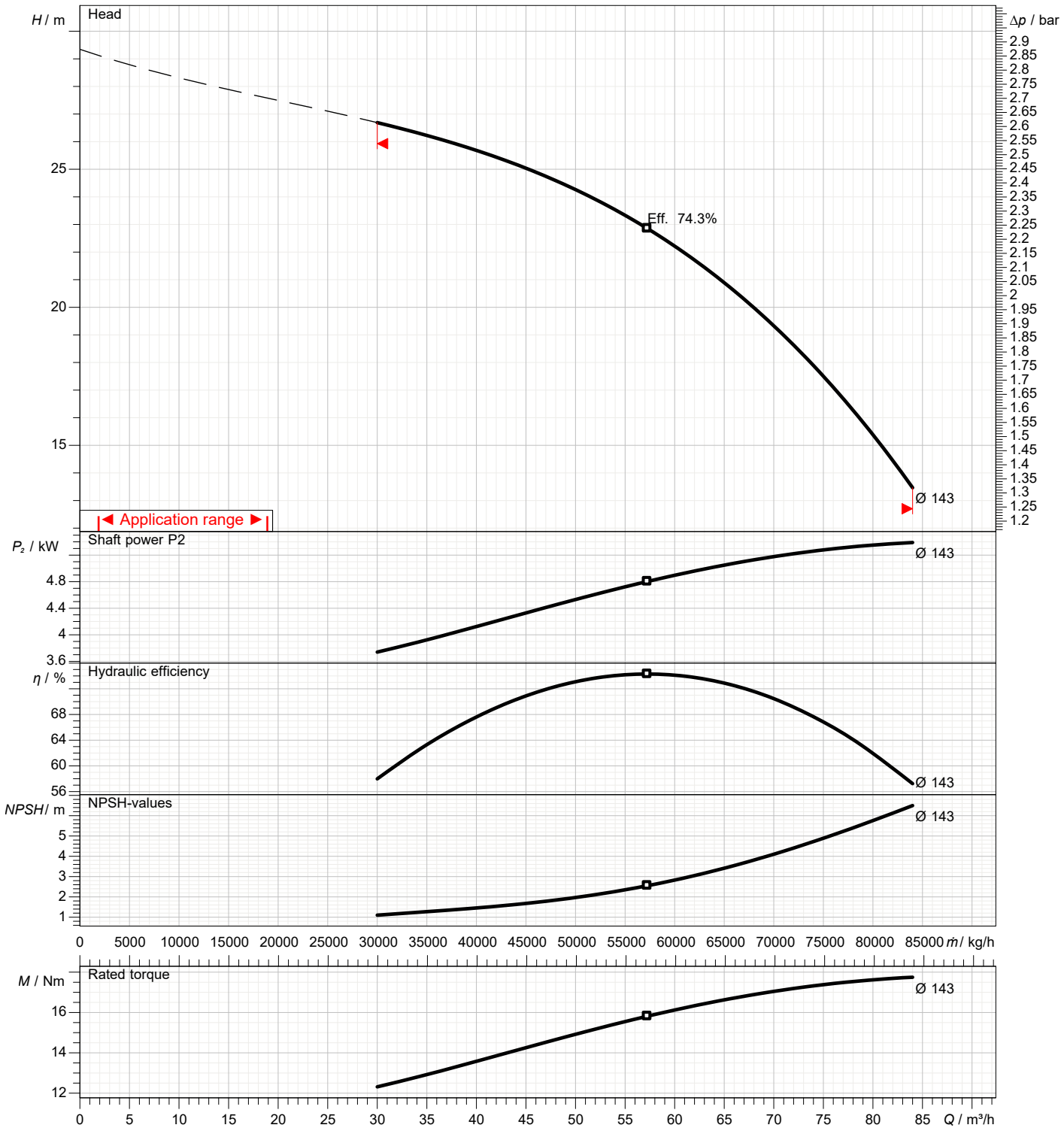
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Impeller Diameter Designed	mm	
Operating head	m		Frequency	Hz	50
			Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

Pump name (*See Product description)EVM64 1-0F5/5.5

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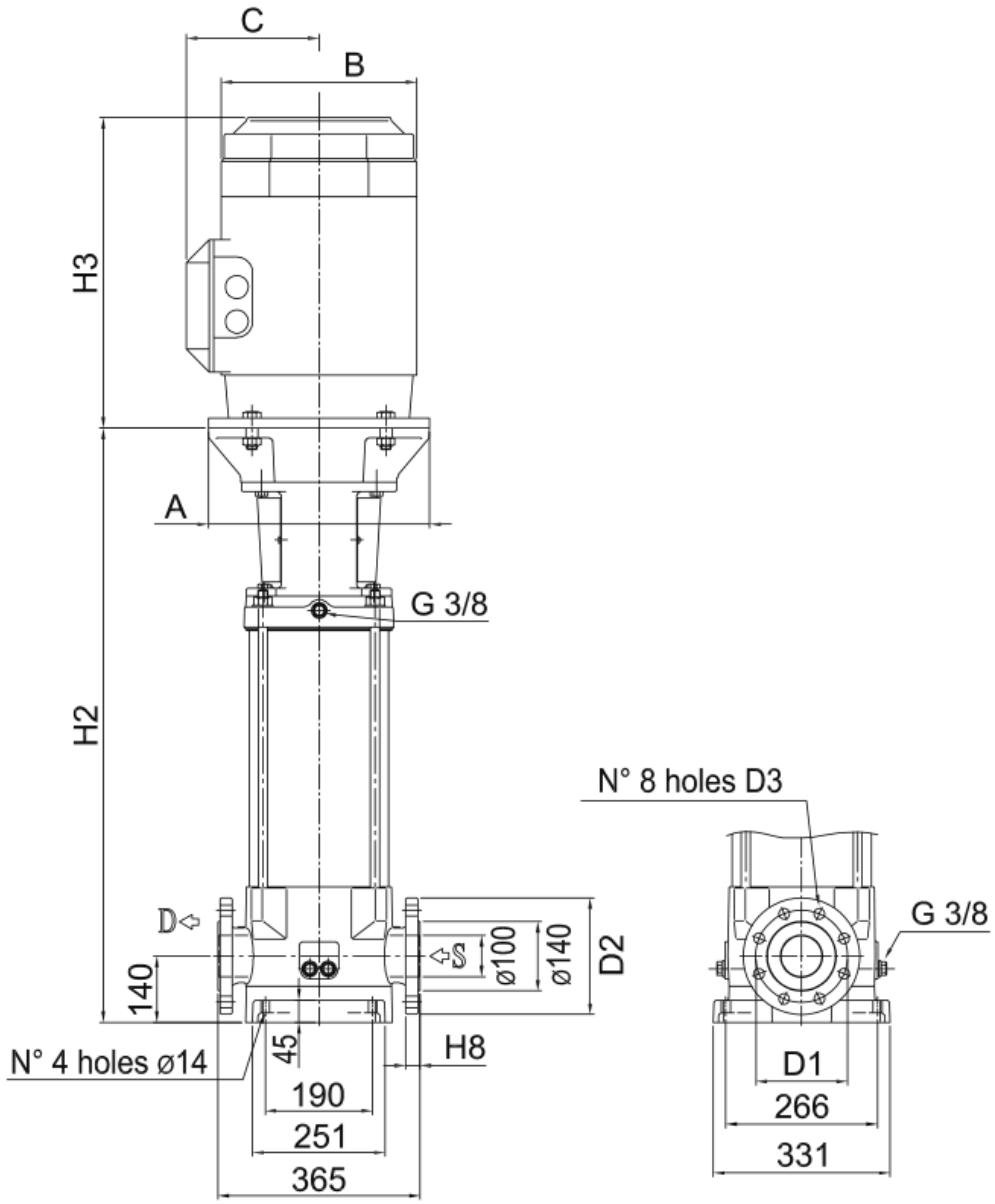

Dimensions in	mm							
1	A	300						
2	B	220						
3	C	152						
4	Dia D1	180						
5	Dia D2	220						
6	Dia D3	18						
7	H2	546						
8	H3	399						
9	H8	20						
10	Weight P&M	116 kg						
11								
12								
13								
14								
15								

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Construction

Pump name (*See Product description)EVM64 1-0F5/5.5

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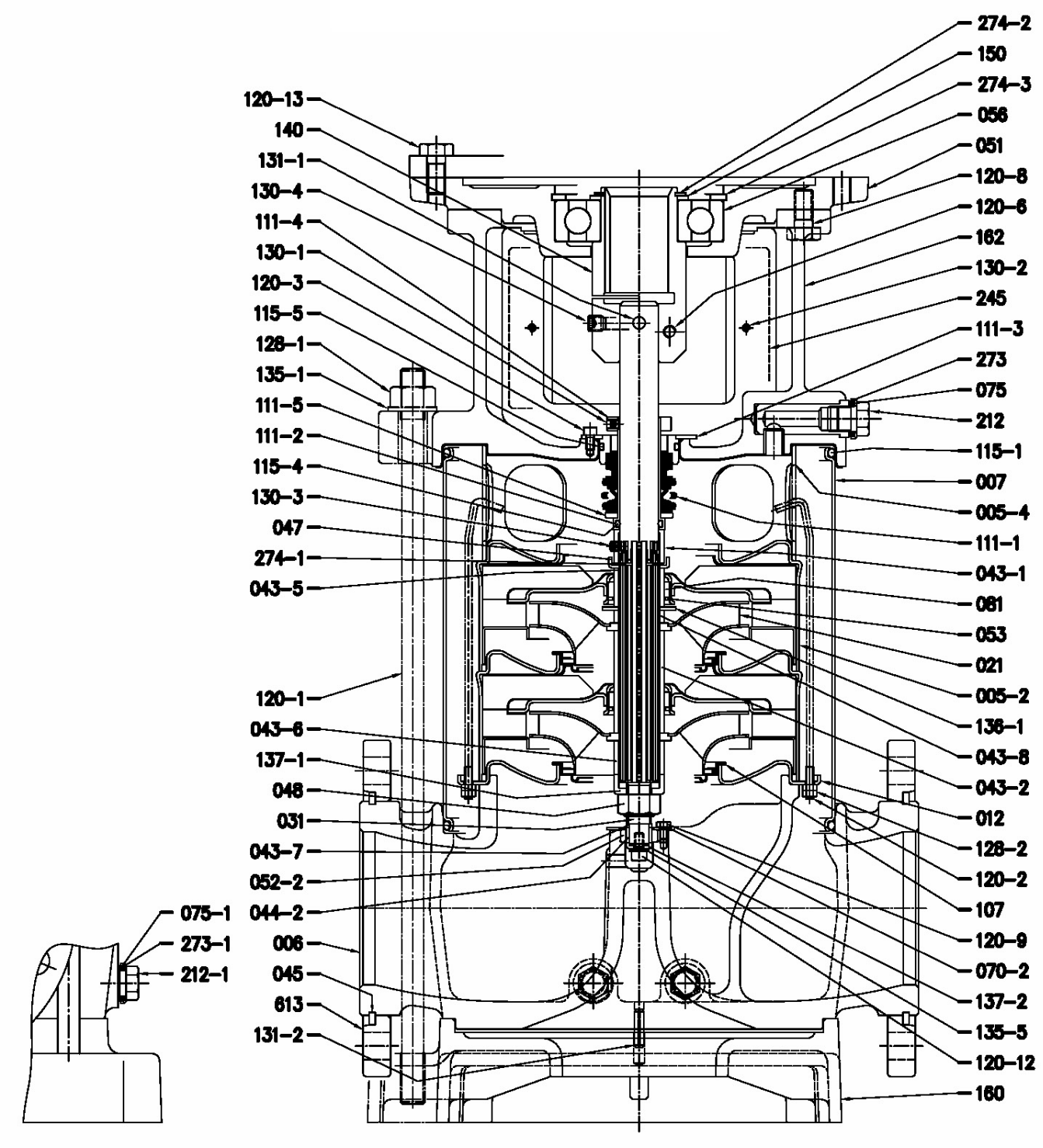
E-mail	Project ID	Proiect redenumit 2024-06-13 20:42:34	E-mail



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Construction

Pump name (*See Product description)EVM64 1-0F5/5.5

Customer	Date	2024-06-13	Company
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E-mail	Project ID	Proiect redenumit 2024-06-13 20:42:34	E-mail

N°			MATERIAL		DIMENSIONS	STANDARD	Q.TY
			EVM	EVML			
005-2	Intermediate casing		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 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
007	Outer casing		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
012	Suction cover		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
043-2	Shaft sleeve (intermediate)		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
043-6	Shaft sleeve (adjustment)		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
043-7	Shaft sleeve (bottom bearing)		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
043-8	Shaft sleeve (discharge/lower)		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
044-2	Bearing sleeve		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
051	Motor adapter		Cast iron EN-GJL-200-EN 1561				[1]
052-2	Bearing		Tungsten carbide				1
053	Bush holder		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			[1]
056	Ball bearing						[1]
070-2	Ring for bearing		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
075	O-Ring (plug)		EPDM	FPM			1
075-1	O-Ring (plug)		EPDM	FPM			4
081	Bush		PTFE				[1]
107	Liner ring		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.240.66x5.34		2
115-4	O-Ring (cartridge sleeve)		EPDM	FPM	D.24.99x3.53		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
120-2	Tie-rod		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
120-3	Screw (mechanical seal)		A2-70 UNI 7323		M5x10	UNI 5931	4
120-6	Screw for coupling	EVM64 1-0, 1-1, 2-2	Zincate steel 8.8 Strenght class ISO 898/1		M8x20	UNI 5931	2
		EVM64 2 and higher			M12x30	UNI 5931	
120-8	Screw	EVM64 1-0, 2-2	Zincate steel 8.8 Strenght class ISO 898/1		M6x10	UNI 5739	[1]
					M10x30	UNI 5739	
120-9	Screw	EVML	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M5x8	UNI 5737	4
		EVM			M5x8	UNI 5739	
120-12	Screw		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M6x20	UNI 5931	1
120-13	Screw	EVM64 1-1	Zincate steel 8.8 Strenght class ISO 898/1		M8x20	UNI 5739	4
		EVM64 1-0, 2-2			M12x30	UNI 5739	
		EVM64 6 to 7			M16x55	UNI 5737	
		EVM64 2 to 5			M16x65	UNI 5739	
128-1	Nut for tie rod		Zincate steel		M16	UNI 5588	4
128-2	Nut		Carbon steel	EN 1.4401 (AISI 316)	M5	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		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M6X6	UNI 5923	1
130-4	Set screw		Zincate steel		M10x10	UNI 5923	1
131-1	Pin for shaft		Carbon steel				1
131-2	Elastic pin		Zincate steel		6x25	UNI 6873	1
135-1	Washer		Zincate steel		17x30x3	UNI 6592	4
135-5	Washer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	D.6		1
136-1	Stopper ring		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
137-1	Impeller spacer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
137-2	Shaft spacer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
140	Coupling		Brass OT 58 UNI 5705				[1]
150	Spacer		Carbon steel				[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		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	D.26	UNI 7435	1
274-2	C-Type snap ring	EVM64 1-0, 2-2	Carbon steel TC80		D.50	UNI 7435	[1]
		EVM64 2 to 4-3			D.65	UNI 7435	
		EVM64 4-0, 4-1			D.75	UNI 7535	
274-3	C-Type snap ring		Carbon steel TC80		D.110	UNI 7437	[1]
613	Flange		Carbon steel				2

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

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Construction

Pump name (*See Product description)EVM64 1-0F5/5.5

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
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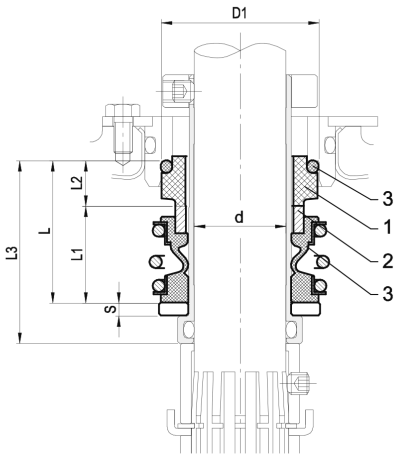
Construction

Pump name (*See Product description)EVM64 1-0F5/5.5

Customer	Date	2024-06-13	Company	
Contact	Item no.		Issued by	
Phone	Project		Phone	
E-mail	Project ID	Proiect redenumit 2024-06-13 20:42:34	E-mail	



Size [mm]	Max operating pressure [bar]	d [mm]	D_1 [mm]	L [mm]	L_1 [mm]	L_2 [mm]	L_3 [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

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