Technical data

Pump name (*See Product description)EVM32 5-2F6/1

Customer	Date	2024-07-01	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-07-01 19:11:	E-mail

Requested data

1	Pump type	VERTICAL MULTISTAGE 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)EVM32 5-2F6/15	Frequency		Hz	60
10	Design	VERTICAL MULTISTAGE PUMPS	Installation type			Round flange
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	-
12	Speed rpm	3500		Designed	mm	
13	No. of Stage	5		Min.	mm	-
14	Connection Suction side		Flow	Operating	m³/h	
15	Connection Discharge side			Max-	m³/h	48
16	Max Working Pressure bar	16		Min-	m³/h	15
17	Shut-off head bar	15.45	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	67.6
19	Shaft power kW			- (Qmin.)	m	147.6
20			Max. Shaft Power at max. impeller		kW	14.25
21	Required pump NPSH m		Efficiency		%	

Materials

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

Motor

28	Manufacturer	ATB	Insulation class		F
29	Type	TEFC_EVM32 5-2F6/15_380_Three Phase	Phases		3~
30	Specific design	IE3 / 60 Hz / Pole pairs 1	Frame size		160
31	Rated power kW	15	Weight	kg	101
32	Number of poles	2	Electric voltage	V	380
33	Speed rpm	3545	Electric current	A	27.5
34	Degree of protection	IP 55			
35					

Remarks

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Performance curve

Pump name (*See Product description)EVM32 5-2F6/15

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E-mail		Project ID	Proiect redenumit 2024-07-01 19:11:	E-mail	

Requested data

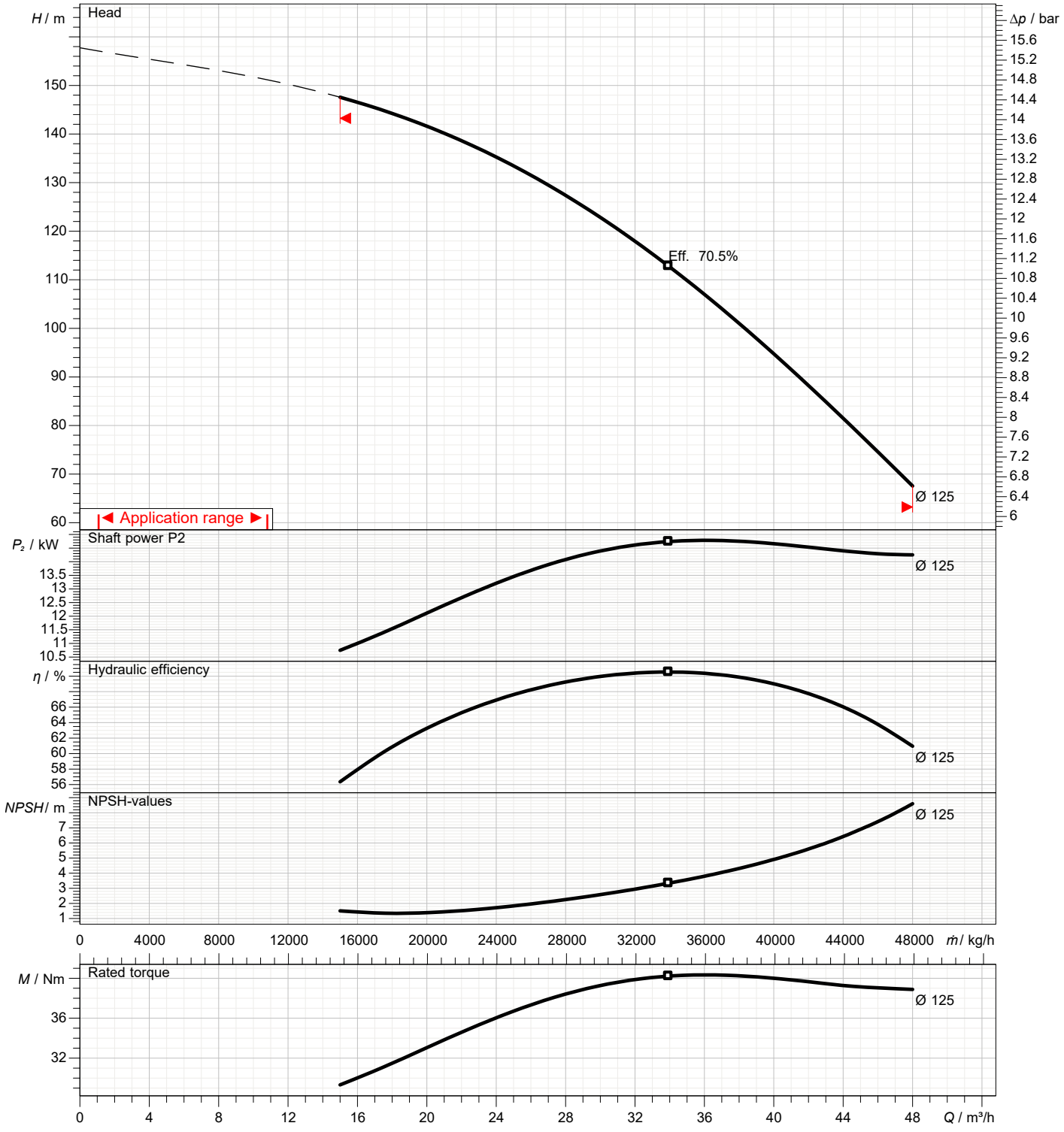
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Impeller Diameter Designed	mm	
Operating head	m		Frequency	Hz	60
			Speed	rpm	3500

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



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Dimensions

Pump name (*See Product description)EVM32 5-2F6/15

Customer	Date	2024-07-01	Company
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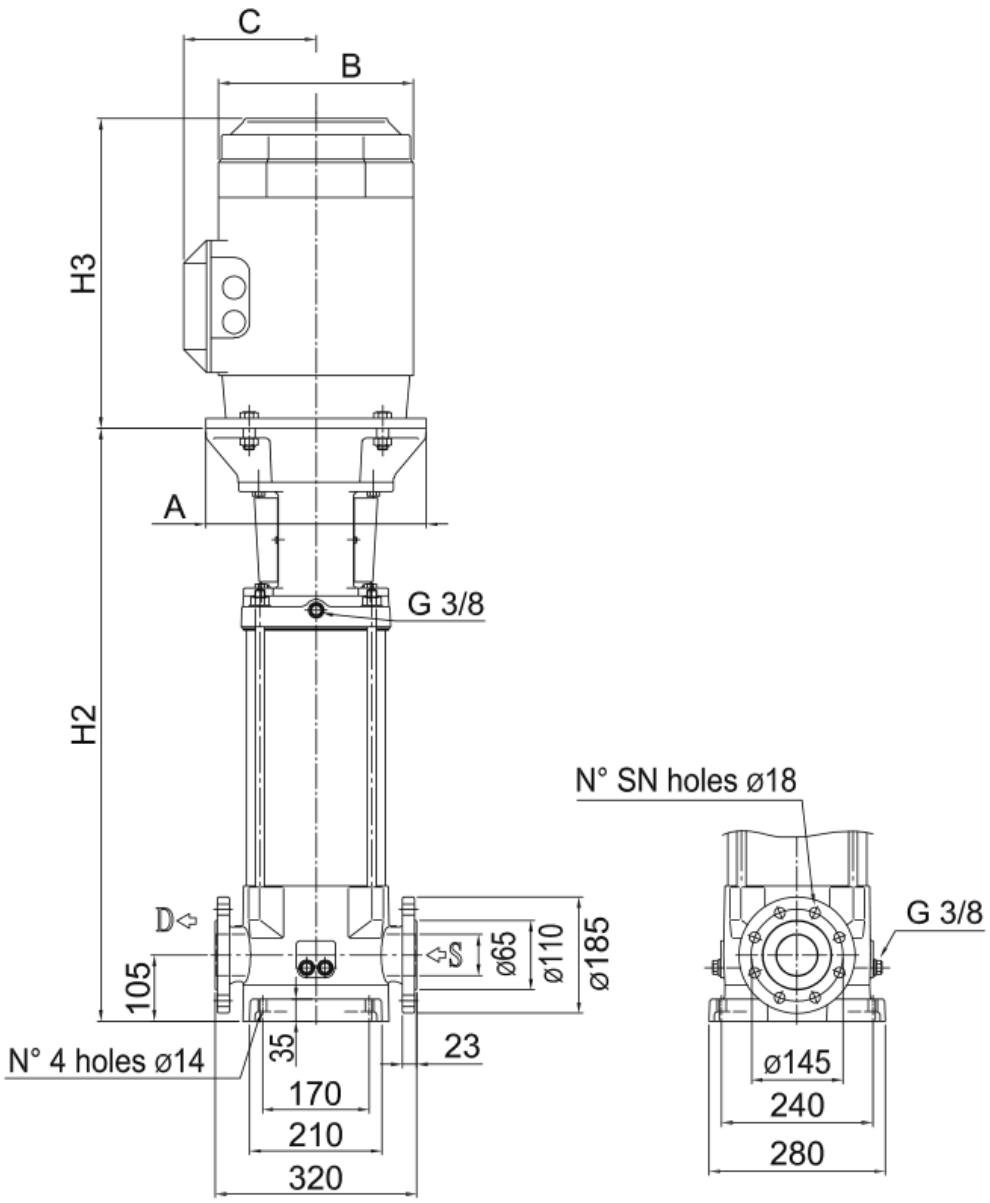

Dimensions in	mm							
1	A	350						
2	B	311						
3	C	240						
4	H2	799						
5	H3	495						
6	SN	4						
7	Weight P&M	[184].9 kg						
8								
9								
10								
11								
12								
13								
14								
15								

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Construction

Pump name (*See Product description)EVM32 5-2F6/15

Customer	Date	2024-07-01	Company
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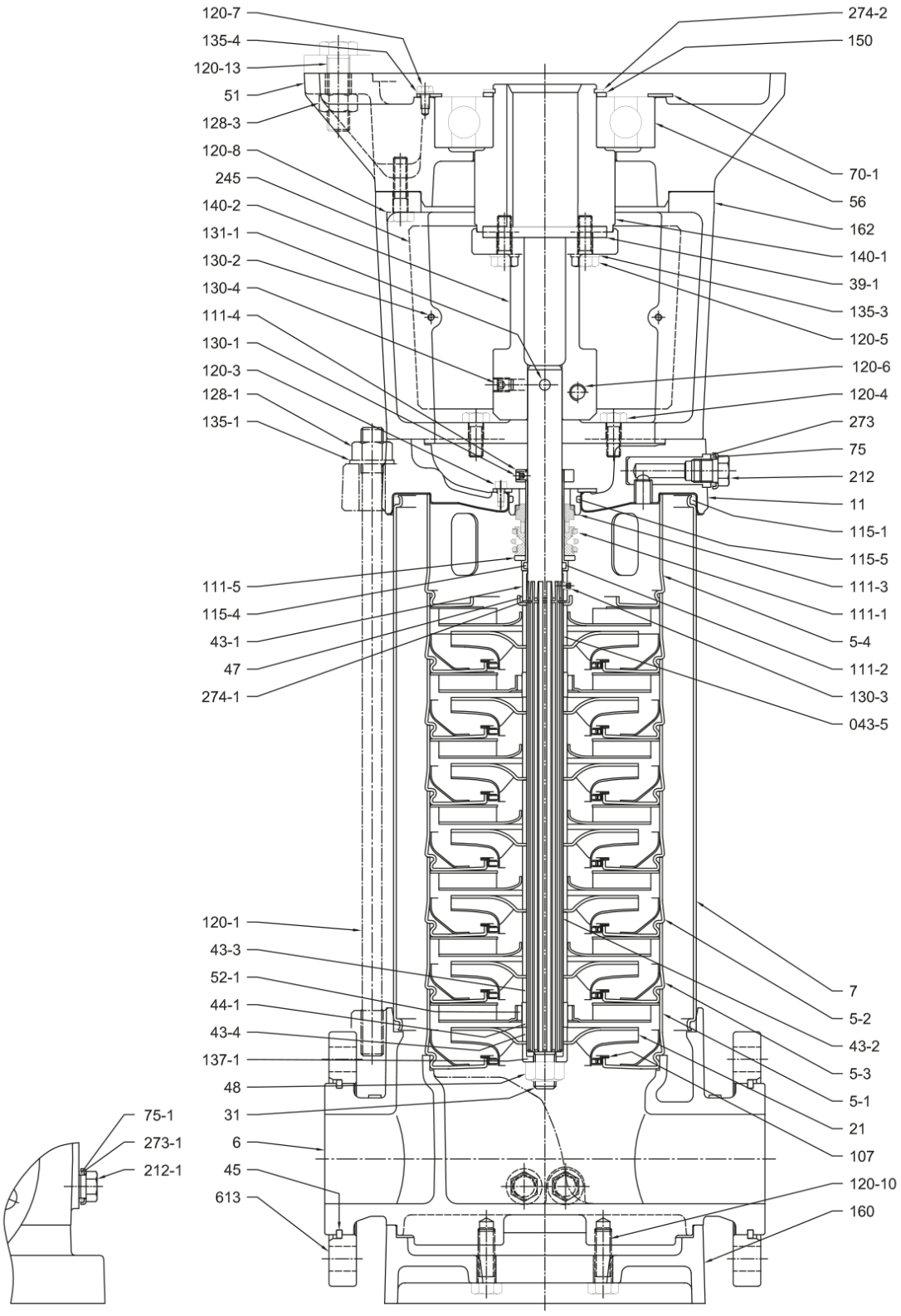
E-mail	Project ID	Proiect redenumit 2024-07-01 19:11:46	E-mail



Pump with single ball bearing

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Construction

Pump name (*See Product description)EVM32 5-2F6/15

Customer		Date	2024-07-01	Company	
Contact		Item no.		Issued by	
Phone		Project		Phone	
E-mail		Project ID	Proiect redenumit 2024-07-01 19:11:46	E-mail	

N°	PART NAME		MATERIAL EVM	MATERIAL EVML	DIMENSIONS	STANDARD
5-1	Suction casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing		EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)		
7	Outer casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
11	Casing cover		Cast iron+ EN 1.4301 (AISI 304)	Cast iron + EN 1.4401 (AISI 316L)		
21	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft		EN 1.4404 (AISI 316L)			
39-1	Key		Carbon Steel		12X8X90	UNI 6604
43-1	Shaft sleeve (mechanical seal)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-2	Shaft sleeve (intermediate)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-5	Shaft sleeve (last stage)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing		Tungsten carbide			
45	Flange holder		EN 1.402 (AISI 420)			
47	Ring Holder		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut		A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M16	
51	Motor adapter		Cast iron EN-GJL-200-EN 1561			
52-1	Bearing		Tungsten carbide			
56	Ball bearing		[1]			
70-1	Ring for bearing		EN 1.4301 (AISI 304)			
75	O-Ring (plug)		EPDM	FPM		
75-1	O-Ring (plug)		EPDM	FPM		
107	Liner ring		PTFE / EN 1.4301 (AISI 304)	PTFE / EN 1.4404 (AISI 316L)		
111-1	Mechanical seal		[2]			
111-2	Mechanical seal cartridge		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-3	Mechanical seal seat		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-4	Seal holder		Brass OT 58 UNI 5705	EN 1.4404 (AISI 316L)		
111-5	Adjusting ring		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
115-1	O-Ring (outer casing)		EPDM	FPM	D.208.91 X5.34	
115-4	O-Ring (cartridge sleeve)		EPDM	FPM	D. 24.99X3.53	
115-5	O-Ring (seal cover)		EPDM	FPM	D.44.04X3.53	
120-1	Tie-rod		Galvanized steel 6.8 strenght class ISO 898/1			
120-3	Screw (mechanical seal)		A2-70 UNI 7323		M5X10	UNI 5731
120-4	Screw (casing cover)		Galvanized steel 8.8 strenght class ISO 898/1		M10X25	UNI 5793
120-5	Screw for coupling	EVM32 1	Galvanized steel 8.8 strenght class ISO 898/1		M8X20	UNI 5931
		EVM32 3 to 10			M10X30	UNI 5739
120-6	Screw for coupling	EVM32 1 to 3-3	Galvanized steel 8.8 strenght class ISO 898/1		M8X20	UNI 5931
		EVM32 3-0 to 10-3			M12X30	UNI 5931
120-7	Screw (bearing)		Galvanized steel 8.8 strenght class ISO 898/1		M6X10	UNI 5739
120-8	Screw (bearing housing)	EVM32 3-0 to 10-3	Galvanized steel 8.8 strenght class ISO 898/1		M10X30	UNI 5739
		EVM32 2-0 to 3-3			M12X25	UNI 5739
120-10	Screw (base plate)		Galvanized steel 8.8 strenght class ISO 898/1		M12X40	UNI 5739
120-13	Screw for motor	EVM32 1	Galvanized steel 8.8 strenght class ISO 898/1		M8X20	UNI 5739
		EVM32 2-0 to 3-3			M12X30	UNI 5739
		EVM32 3-0 to 10-3			M16X65	UNI 5739
128-1	Nut for tie rod		Galvanized steel		M 16	UNI 5588
128-3	Nut (motor)		Galvanized steel		M16	UNI 5588
130-1	Set screw		A2-70 UNI 7323		M6X8	UNI 5923
130-2	Screw for coupling guard		A2-70 UNI 7323		M5X6	UNI 7687
130-3	Set screw (mechanical seal)		A2-70 UNI 7323		M6X6	UNI 5923
130-4	Set screw (coupling pin)		Carbon steel		M 10X10	UNI 5923
131-1	Pin for shaft		Carbon Steel			
135-1	Washer (Tie rod)		Galvanized steel		17X30X3	UNI 6592
135-3	Washer (coupling)		Galvanized steel		10.5X17.5X2.2	UNI 1751
135-4	Washer (bearing)		Carbon steel		6.4	UNI 1751
137-1	Impeller spacer		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
140-1	Coupling (motor side)		Carbon steel			
140-2	Coupling (pump side)		Carbon steel			
150	Spacer		carbon steel			
160	Base		Cast iron EN-GJL-200-EN 1561			
162	Motor bracket		Cast iron EN-GJL-200-EN 1561			
212	Plug		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
212-1	Plug		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard		EN 1.4301 (AISI 304)			
273	Plug Washer		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
273-1	Plug Washer		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
274-1	C-type snap ring (mechanical seal)		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	Ø 26	UNI 7435
274-2	C-type snap ring (coupling)		Carbon Steel TC 80			
613	Flange		Carbon steel			

[1] See **CONSTRUCTION 3**

[2] See **CONSTRUCTION 4**

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Construction

Pump name (*See Product description)EVM32 5-2F6/15

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E-mail		Project ID	Proiect redenumit 2024-07-01 19:11:46	E-mail

Pump Type	N°																														
	5-2	5-3	11	21	21-1	39-1	43-2	43-3	43-4	44-1	51	52-1	56	70-1	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
EVM(L)32 3-0F6/11	1	1	1	3	/	1	1	1	1	1	1	1	1	1	3	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 4-3F6/11	2	1	1	1	3	1	2	1	1	1	1	1	1	1	4	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 4-0F6/15	2	1	1	4	/	1	2	1	1	1	1	1	1	1	4	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 5-3F6/15	3	1	1	2	3	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 5-2F6/15	3	1	1	3	2	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 5-0F6/18.5	3	1	1	5	/	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 6-3F6/18.5	4	1	1	3	3	1	4	1	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 6-0F6/22	4	1	1	5	1	1	4	1	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 7-3F6/22	5	1	1	4	3	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/
EVM(L)32 7-2F6/22	5	1	1	5	2	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	/

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Construction

Pump name (*See Product description)EVM32 5-2F6/15

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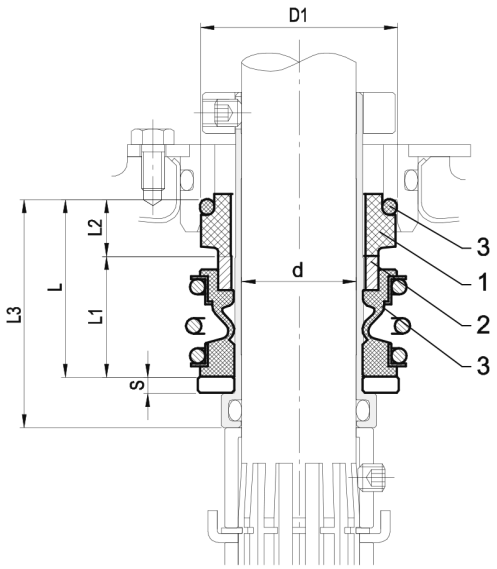

Size [mm]	Max operating pressure [bar]	d [mm]	D_1 [mm]	L [mm]	L_1 [mm]	L_2 [mm]	L_3 [mm]	S [mm]	Material		
									1 Stationary Seal Ring	2 Rotary Seal Ring	3 Rubber
25	25	25	43	39	26.5	12.5	50	3.5	Carbon graphite	Silicon carbide	FPM