Technical Data

Pump Name EVMS32 1-1LF5BQ1EG E/1.5

Customer	Date 2024-06-14	Company	
Contact	Item no.	Issued by	
Phone	Project	Phone	
E-mail	Project ID Proiect redenumit 2024-06-14 09:53:20	E-mail	

Requested data

1	Pump type	VERTICAL MULTISTAGE PUMP	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	EVMS32 1-1LF5BQ1EG E/1.5	Frequency		Hz	50
10	Design	VERTICAL MULTISTAGE PUMP	Installation type			Loose flange
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	108
12	Speed rpm	2890		Designed	mm	108
13	No. of Stage	1		Min.	mm	108
14	Connection Suction side		Flow	Operating	m³/h	
15	Connection Discharge side			Max-	m³/h	42
16	Max Working Pressure bar	16		Min-	m³/h	12
17	Shut-off head bar	1.70	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	5.1
19	Shaft power kW			- (Qmin.)	m	15.3
20			Max. Shaft Power at max. impeller		kW	1.48
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 304			
23	Intermediate casing	AISI 304			
24	Bottom casing	EN 1.4308 (ASTM CF8)			
25	Casing cover	AISI 304			
26	Shaft	AISI 304			
27	O-ring	EPDM			

Motor

28	Manufacturer	ETM	Insulation class			F
29	Type	TEFC_EVMS32 1-1/1.5_230_Three Phase	Phases			3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size			90
31	Rated power kW	1.5	Weight		kg	13.5
32	Number of poles	2	Electric voltage		V	230
33	Speed rpm	2885	Electric current		A	5.8
34	Degree of protection	IP55				
35						

Remarks

EBARA

Performance Curve

Pump Name EVMS32 1-1LF5BQ1EG E/1.5

Customer	Date 2024-06-14	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-14 09:53:20	E-mail

Requested data

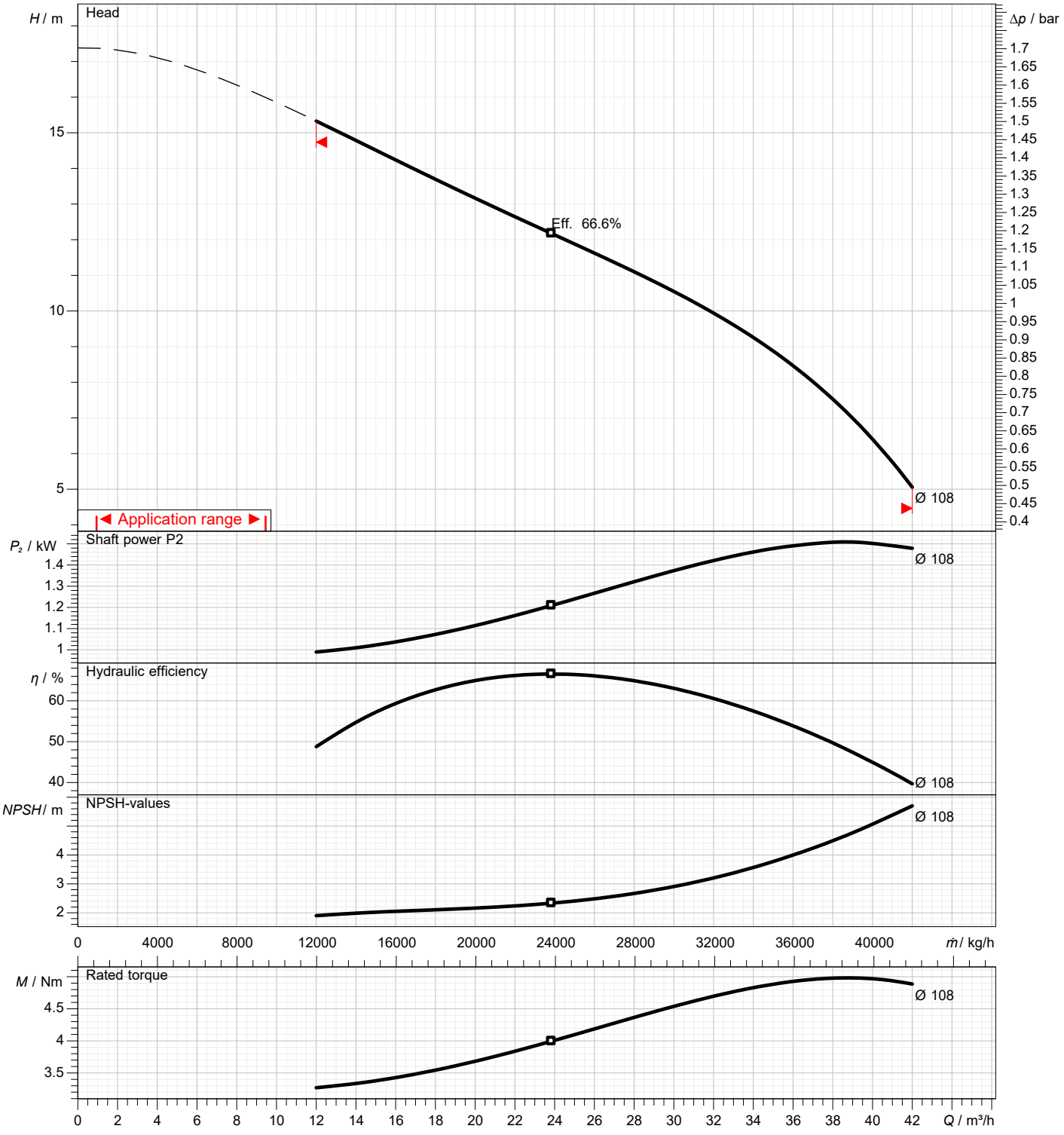
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	108	Speed	rpm	2890

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



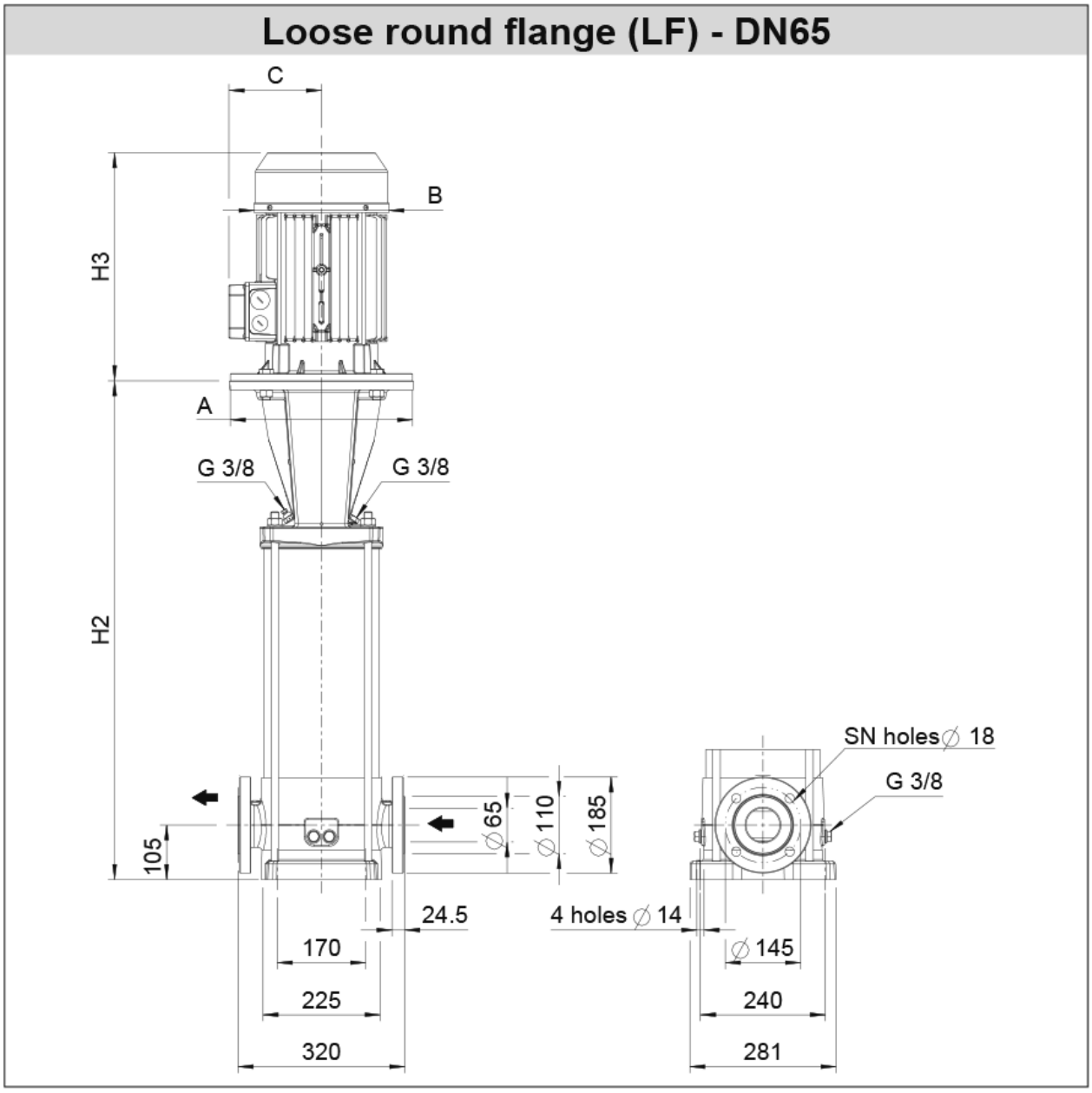
EBARA

Dimensions

Pump Name EVMS32 1-1LF5BQ1EG E/1.5

Customer	Date	2024-06-14	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-14 09:53:20	E-mail

Loose round flange (LF) - DN65



Dimensions in mm

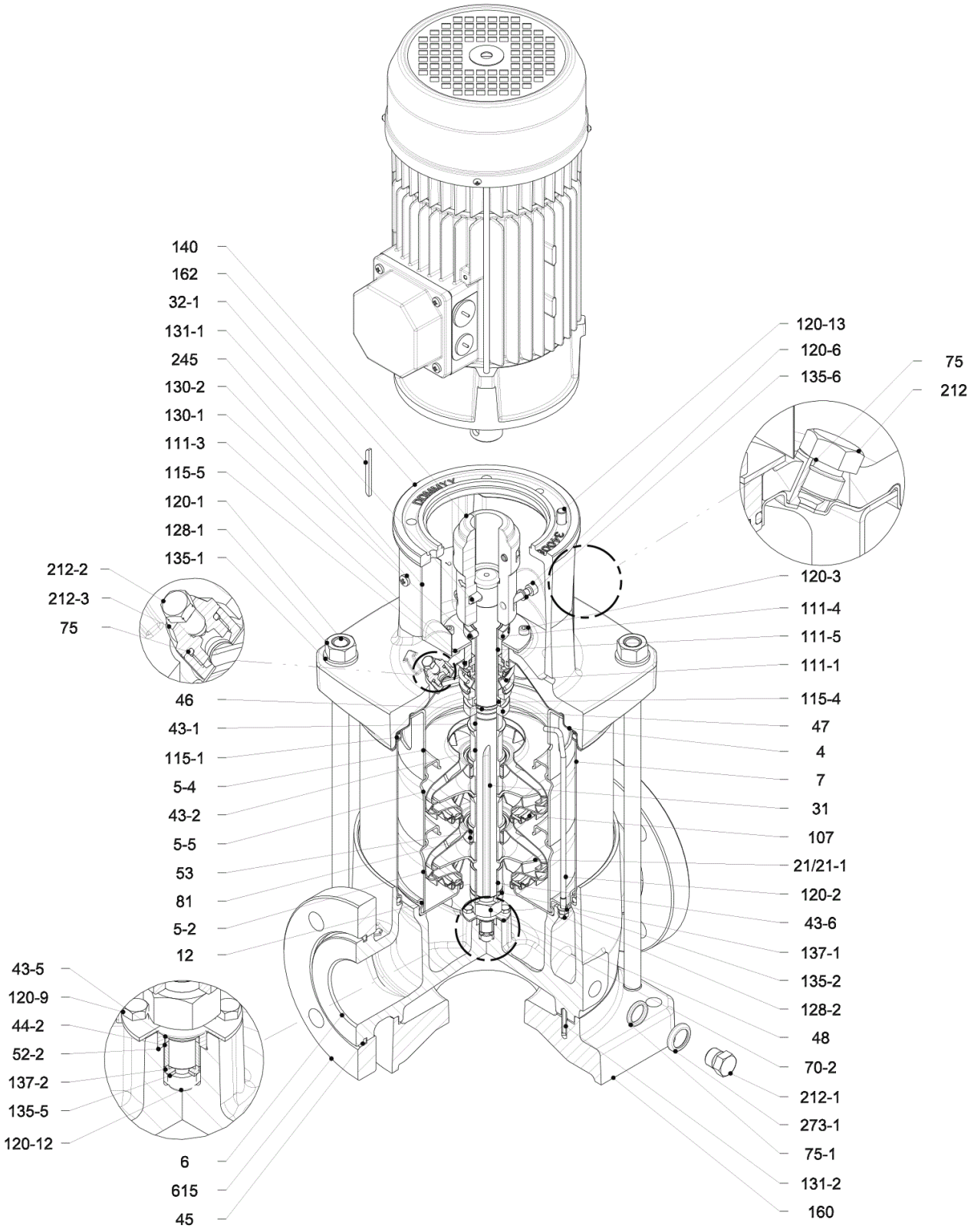
1	A	Dia140						
2	B	160						
3	C	119						
4	H2	451						
5	H2+H3	741						
6	SN	4						
7	Weight P&M (kg)	62.1						
8								
9								
10								
11								
12								
13								
14								
15								

EBARA

(1/3)
Construction

Pump Name EVMS32 1-1LF5BQ1EG E/1.5

Customer	Date	2024-06-14	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-14 09:53:20	E-mail



EBARA

(2/3)
Construction

Pump Name EVMS32 1-1LF5BQ1EG E/1.5

Customer	Date	2024-06-14	Company
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Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-14 09:53:20	E-mail

N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	QTY
			EVMS	EVMSL			
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
5-4	Discharge casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
5-5	Top intermediate casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Bottom casing		EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)			1
7	Outer casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
12	Suction cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
21-1	Reduced impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
31	Shaft		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
32-1	Adjuster key		EN 1.4301 (AISI 304)				1
43-1	Shaft sleeve (mechanical seal)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
43-2	Shaft sleeve (intermediate)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
43-5	Shaft sleeve (last stage)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
43-6	Shaft sleeve (adjustment)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
44-2	Shaft sleeve (bearing)		Tungsten carbride				1
45	Flange holder		EN 1.4301 (AISI 304)				4
46	Ring (mechanical seal)		EN 1.4404 (AISI 316L)				1
47	Ring holder		EN 1.4404 (AISI 316L)				1
48	Impeller nut		EN 1.4301 (AISI 304) with inox insert	EN 1.4401 (AISI 316) with inox insert			1
52-2	Sleeve bearing (bottom casing)		Tungsten carbride				1
53	Bush holder		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
70-2	Ring for bearing sleeve		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
75	O-Ring (priming plug)		EPDM / FPM *		Ø12.37x2.62	OR 3050	2
75-1	O-Ring (drainage plug)		EPDM / FPM *				4
81	Bush		PTFE				1
107	Liner ring		EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS			1
111-1	Mechanical seal		--- **				1
111-3	Mechanical seal seat		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			1
111-4	Seal holder		EN 1.4404 (AISI 316L)				1
111-5	Mechanical seal cartridge sleeve		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
115-1	O-Ring (outer casing)		EPDM / FPM *		Ø240.66x5.34	OR 6945	2
115-4	O-Ring (cartridge sleeve)		EPDM / FPM *		Ø23.39x3.53	OR 4093	1
115-5	O-Ring (seal flange)		EPDM / FPM *		Ø44.04x3.53	OR 4175	1
120-1	Tie rod		EN 1.4057 (AISI 431)				4
120-2	Tie rod (stage)		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			2
120-3	Screw (seal flange)		A2-70		M5x12	ISO 4762	4
120-6	Screw (pump coupling)	up to 4.0 kW	Galvanized steel 8.8 strength class ISO 898/1		M6x25	ISO 4762	4
120-9	Screw (bottom casing)		A2-70		M5x8	ISO 4017	4
120-12	Screw (shaft)		A2-70		M6x16	ISO 4762	1
120-13	Screw for motor	MEC 90-100-112	Galvanized steel 8.8 strength class ISO 898/1		M8x20	ISO 4017	4
128-1	Nut (tie rod)		A2-70		M16	ISO 4032	4
128-2	Nut (casing tie rod)		A2-70		M5	ISO 4032	8
128-6	Nut (aluminium coupling)	MEC 90-100-112	Galvanized steel		M6	ISO 4032	4
130-1	Set screw		EN 1.4301 (AISI 304)		M6x8	ISO 4026	3
130-2	Screw for coupling guard		A2-70		M5x6	UNI 7687	4
131-1	Pin for shaft	up to 4.0 kW	Carbon Steel		Ø8x42	ISO 2338	1
131-2	Elastic pin		EN 1.4301 (AISI 304)		Ø6x26	ISO 8752	1
135-1	Washer (tie rod)		EN 1.4301 (AISI 304)		Ø16	ISO 7089	4
135-2	Washer (casing tie rod)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316)	Ø5.1	UNI 1751	2
135-5	Washer (impeller nut)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
135-6	Washer (aluminium coupling)	up to 4.0 kW	Carbon Steel				4
137-1	Impeller spacer		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
137-2	Shaft spacer		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)				2
160	Base		Cast Iron EN GJL200 EN 1561				1
162	Motor bracket	up to 30 kW	Cast Iron EN GJS 400-15 EN 1563				1
212	Priming plug		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
212-1	Drainage plug		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			4
212-2	Venting plug		EN 1.4401 (AISI 316)				1
212-3	Priming plug		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
245	Coupling guard		EN 1.4301 (AISI 304)				2
273-1	Washer (drainage plug)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			4
615	Loose flange		Cast Iron EN GJS 500-7 EN 1563				2

* EPDM (standard)
FPM (option)

** see CONSTRUCTION 3/3

EBARA

(3/3)
Construction

Pump Name EVMS32 1-1LF5BQ1EG E/1.5

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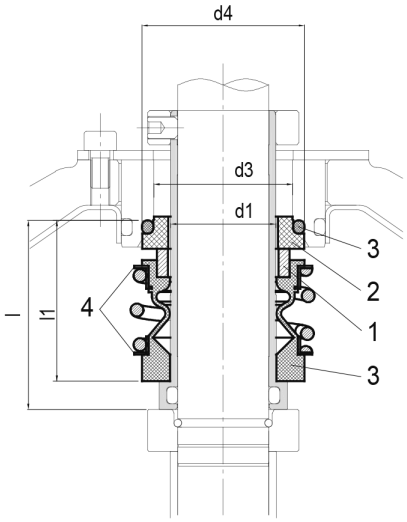

● Standard

Type key	Availability	Max operating pressure	Max operating temperature	Shaft seal type		Shaft seal material								
				Cartridge		1		2		3		4	5	
				Type	Code	Rotating part	Code	Stationary part	Code	Elastomers	Code	Compression spring	Collar	Code
BQ1EG	●	16 bar	- 30°C to + 120°C	Unbalanced	(-)	Carbon	(B)	SiC	Q1	EPDM	(E)	AISI 316		(G)

Max operating pressure	d1 [mm]	d3 [mm]	d4 [mm]	l [mm]	l1 [mm]
16 bar	28	37	43	50	42.5