

Technical data

Pump name EVMSG32 4-2F5BQ1EG E/7.5

Customer	Date 2024-06-14	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-14 17:13:	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 m ³ /h		Kin. viscosity mm ² /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/m ³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump name	EVMSG32 4-2F5BQ1EG E/7.5	Frequency Hz	50	
10	Design	VERTICAL MULTISTAGE PUMP	Installation type	Round flange	
11	Manufacturer	EBARA	Impeller Diameter	Max. mm	-
12	Speed rpm	2910		Designed mm	117,6 (No.2) / 108 (No.2)
13	No. of Stage	4		Min. mm	-
14	Connection Suction side		Flow	Operating m ³ /h	
15	Connection Discharge side			Max- m ³ /h	42
16	Max Working Pressure bar	16		Min- m ³ /h	12
17	Shut-off head bar	7.58	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	33.7
19	Shaft power kW			- (Qmin.) m	72.0
20			Max. Shaft Power at max. impeller kW	6.36	
21	Required pump NPSH m		Efficiency %		

Materials

22	Impeller	AISI 304		
23	Intermediate casing	AISI 304		
24	Bottom casing	Cast Iron EN GJL-250 EN 1561		
25	Casing cover	AISI 304		
26	Shaft	AISI 304		
27	O-ring	EPDM		

Motor

28	Manufacturer	ETM	Insulation class	F
29	Type	TEFC_EVMS32 4-2/7.5_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	132
31	Rated power kW	7.5	Weight kg	46
32	Number of poles	2	Electric voltage V	400
33	Speed rpm	2910	Electric current A	13.6
34	Degree of protection	IP55		
35				

Remarks

Performance curve

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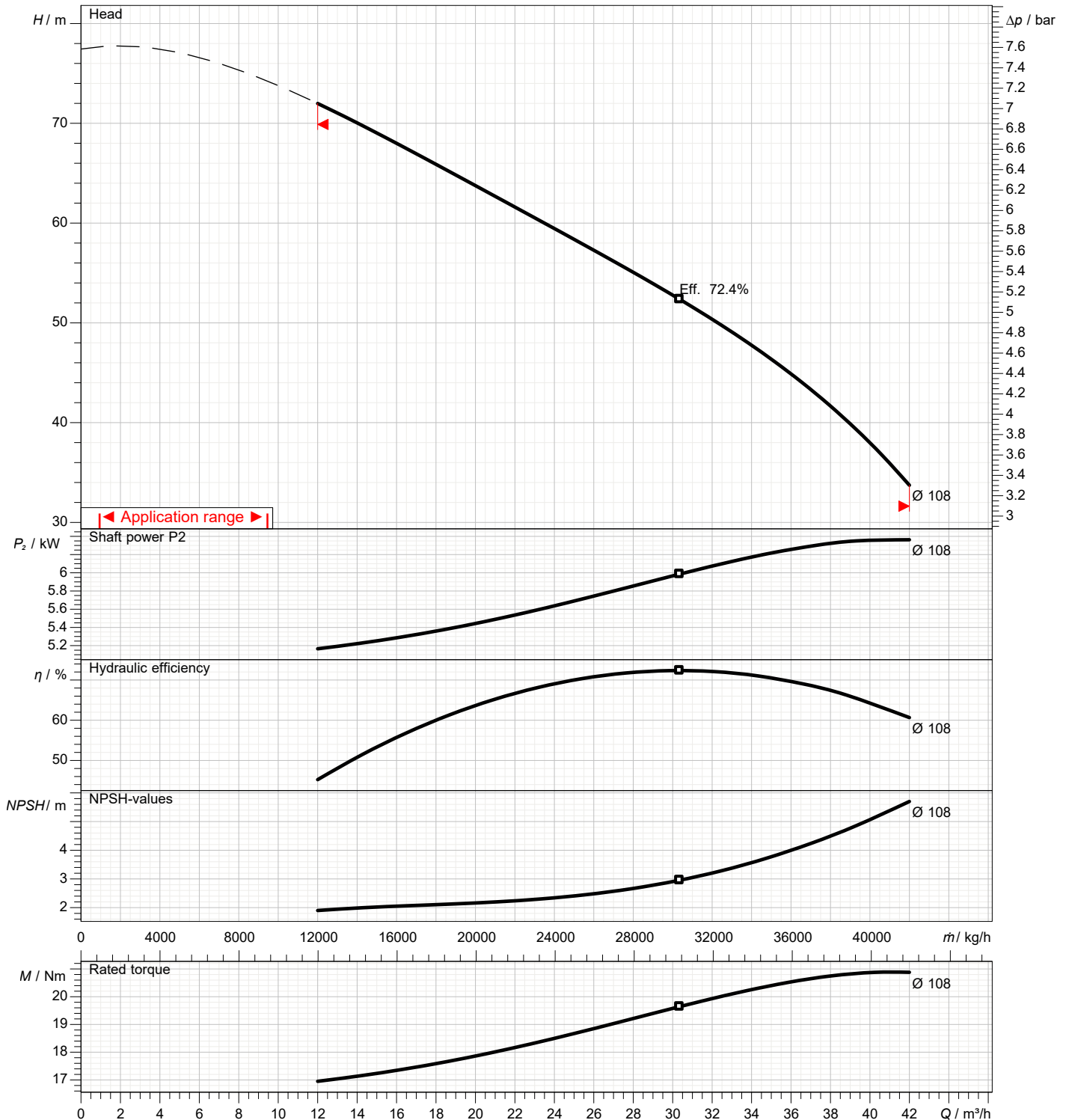
1	Flow	m ³ /h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m ³ /h	Impeller Diameter Designed	mm	117,6 (No.2) / 108 (No.2)
Operating head	m	Frequency	Hz	50
		Speed	rpm	2910

Test standard: ISO 9906:2012 - Grade3B

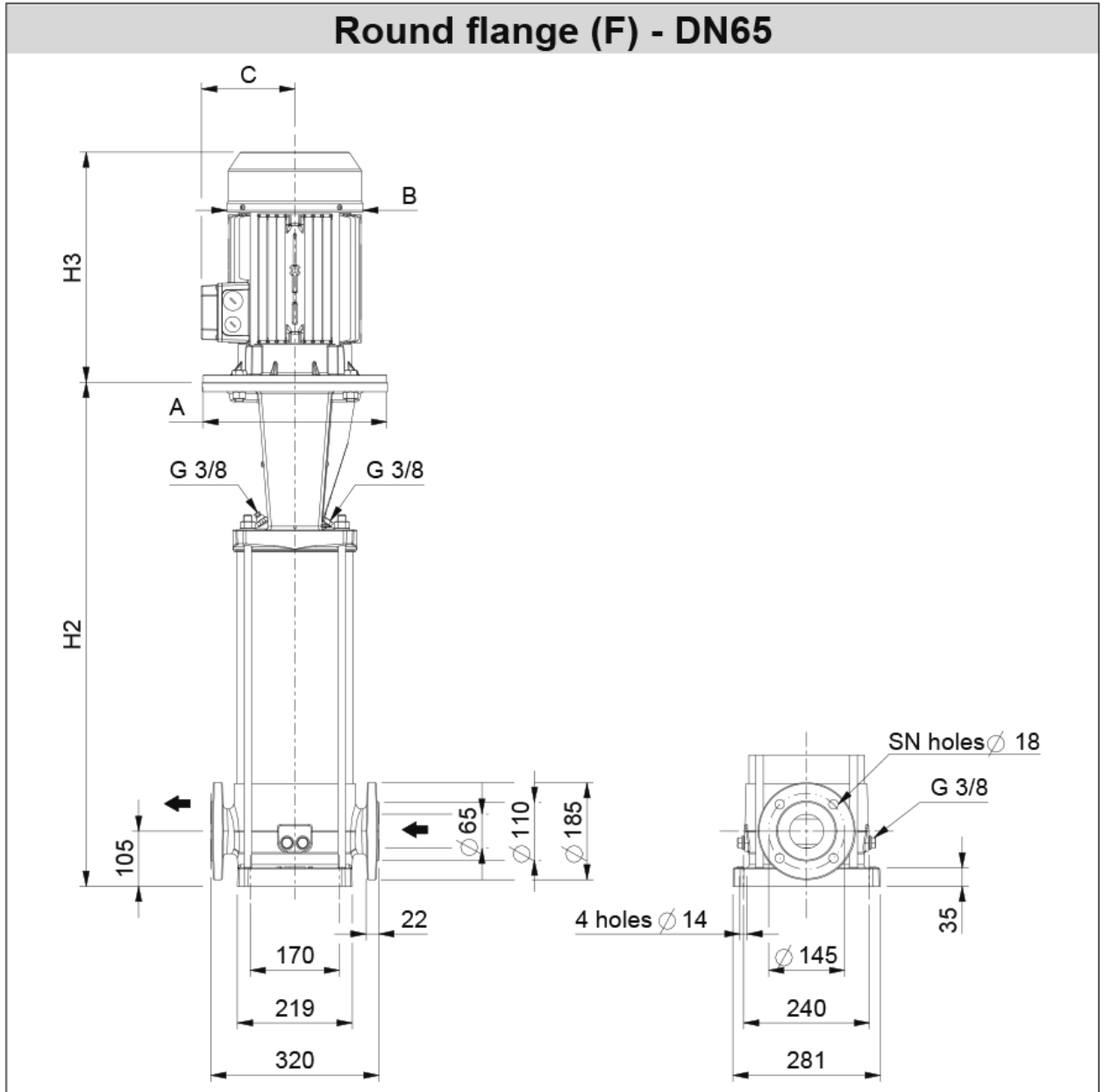
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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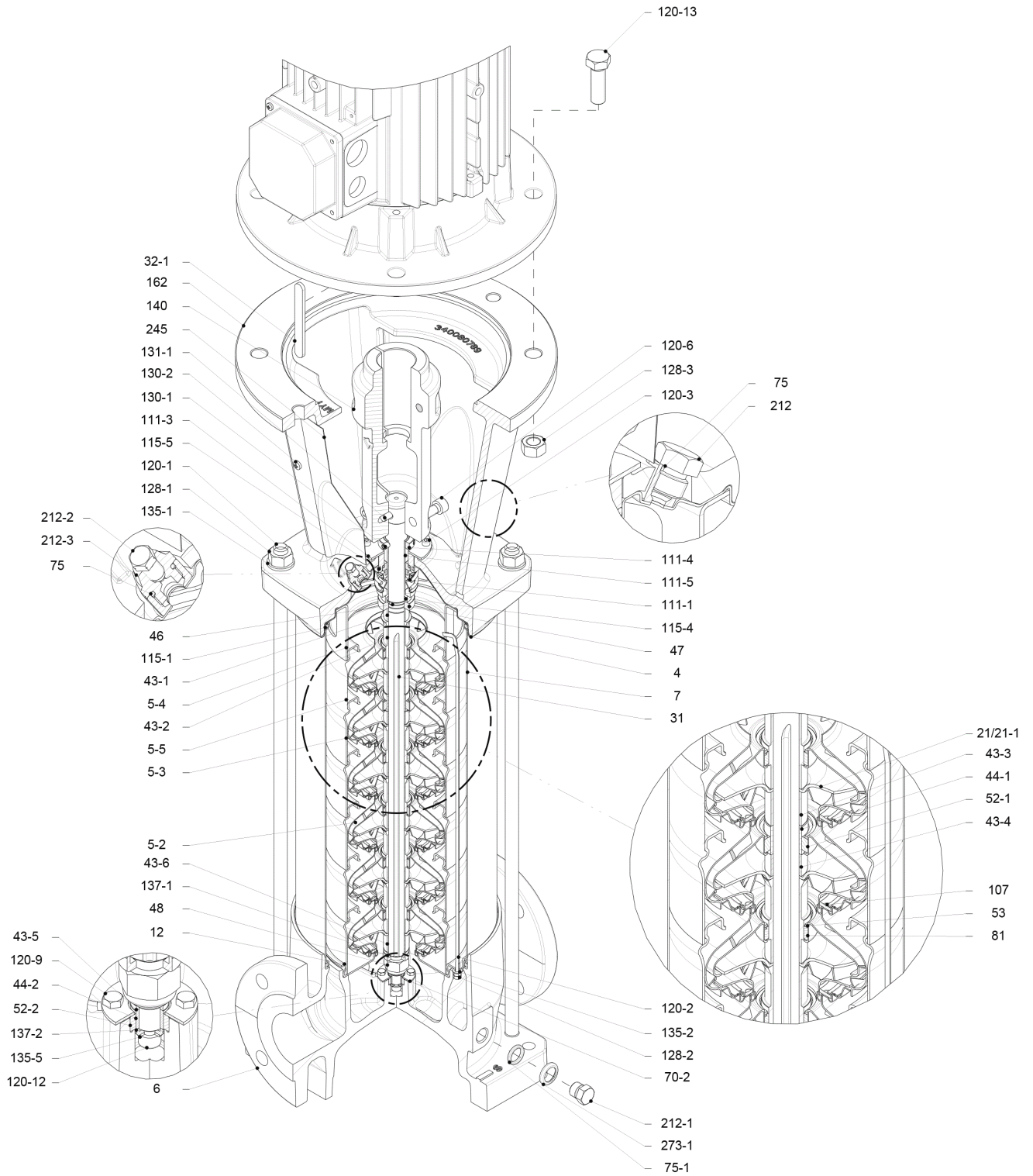
Dimensions in		mm						
1	A	Dia300						
2	B	220						
3	C	152						
4	H2	775						
5	H2+H3	1195						
6	SN	4						
7	Weight P&M (kg)	111.7						
8								
9								
10								
11								
12								
13								
14								
15								

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Construction

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Construction

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N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD	QTY	
4	Casing cover	EN 1.4301 (AISI 304)			1	
5-2	Intermediate casing	EN 1.4301 (AISI 304)			2	
5-3	Intermediate casing with bearing	EN 1.4301 (AISI 304)			1	
5-4	Discharge casing	EN 1.4301 (AISI 304)			1	
5-5	Top intermediate casing	EN 1.4301 (AISI 304)			1	
6	Bottom casing	Cast Iron EN GJL-250 EN 1561			1	
7	Outer casing	EN 1.4301 (AISI 304)			1	
12	Suction cover	EN 1.4301 (AISI 304)			1	
21	Impeller	EN 1.4301 (AISI 304)			2	
21-1	Reduced impeller	EN 1.4301 (AISI 304)			2	
31	Shaft	EN 1.4301 (AISI 304)			1	
32-1	Adjuster key	EN 1.4301 (AISI 304)			1	
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)			1	
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)			3	
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)			1	
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)			1	
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)			1	
43-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)			1	
44-1	Shaft sleeve bearing	Tungsten carbide			1	
44-2	Shaft sleeve (bearing)	Tungsten carbide			1	
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			1	
47	Ring holder	EN 1.4301 (AISI 304)			1	
48	Impeller nut	EN 1.4301 (AISI 304) with inox insert			1	
52-1	Sleeve bearing	Tungsten carbide			1	
52-2	Sleeve bearing (bottom casing)	Tungsten carbide			1	
53	Bush holder	EN 1.4301 (AISI 304)			4	
70-2	Ring for bearing sleeve	EN 1.4301 (AISI 304)			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			3	
107	Liner ring	EN 1.4301 (AISI 304) + PPS			4	
111-1	Mechanical seal	--- **			1	
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)			1	
111-4	Seal holder	EN 1.4404 (AISI 316L)			1	
111-5	Mechanical seal cartridge sleeve	EN 1.4301 (AISI 304)			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)			2	
120-3	Screw (seal flange)	A2-70	M5x12	ISO 4762	4	
120-6	Screw (pump coupling)	from 5.5 kW to 7.5 kW	Galvanized steel 8.8 strength class ISO 898/1	M8x25	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 132	Galvanized steel 8.8 strength class ISO 898/1	M12x45	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
128-3	Nut (motor)	MEC 132	Galvanized steel	M12	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	above 5.5 kW	Carbon Steel	Ø8X50	ISO 2338	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)	Ø5.1	UNI 1751	2
135-5	Washer (impeller nut)		EN 1.4301 (AISI 304)			1
137-1	Impeller spacer		EN 1.4301 (AISI 304)			1
137-2	Shaft spacer		EN 1.4301 (AISI 304)			1
140	Coupling	from 5.5 kW to 30 kW	Cast Iron EN GJL250 EN 1561			2
162	Motor bracket	up to 30 kW	Cast Iron EN GJS 400-15 EN 1563			1
212	Priming plug		EN 1.4301 (AISI 304)			1
212-1	Drainage plug		EN 1.4301 (AISI 304)			4
212-2	Venting plug		EN 1.4401 (AISI 316)			1
212-3	Priming plug		EN 1.4301 (AISI 304)			1
245	Coupling guard		EN 1.4301 (AISI 304)			2
273-1	Washer (drainage plug)		EN 1.4301 (AISI 304)			4

* EPDM (standard)
FPM (option)

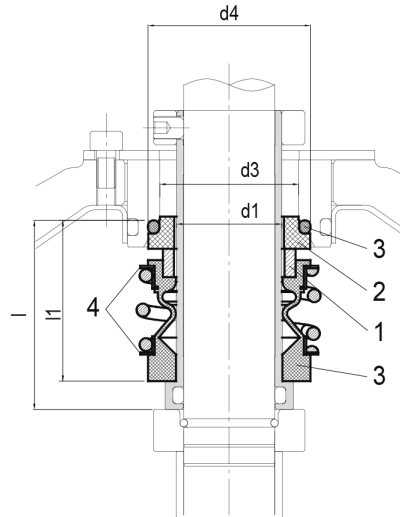
** see CONSTRUCTION 3/3

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- Standard

Type key	Availability	Max operating pressure	Max operating temperature	Shaft seal type		Shaft seal material							
				Type	Code	1 Rotating part	Code	2 Stationary part	Code	3 Elastomers	Code	4 Compression spring	5 Collar
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