

Technical data

Pump name

EVMSL5 3F5Q1BEGE/0.55

Customer	Date 22-February -2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	VERTICAL MULTISTAGE PUMP	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K 293
3	Flow m³/h	0	Kin. viscosity	mm²/s 1
4	Head m	0	Vapour pressure	kPa 2.2
5	Static head m	0	PH value	7
6	Inlet pressure kPa	10	Density	kg/m³ 1000
7	Available system NPSH	0	Solids	Weight % 0
8	Environmental temperature	K 290		

Pump

9	Pump name	EVMSL5 3F5Q1BEGE/0.55	Frequency	Hz 50
10	Design	VERTICAL MULTISTAGE PUMP	Installation type	Round flange
11	Manufacturer	EPE	Impeller	Max. mm 91
12	Speed 1/min	2850	Diameter	Designed mm 91
13	No. of Stage	3		Min. mm 91
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side			Max- m³/h 7.8
16	Max Working Pressure kPa	1600		Min- m³/h 2.4
17	Shut-off head kPa	269.01	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 14.3
19	Shaft power kW			- (Qmin.) m 26.0
20			Max. Shaft Power at max. impeller	kW 0.55
21	Required NPSH m		Efficiency	%

Materials

22	Impeller	AISI 316		
23	Intermediate casing	AISI 316		
24	Bottom casing	AISI 316		
25	Shaft	AISI 316L		
26	O-ring	EPDM		
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_EVMS5 3/0.55_230_Three Phase	Phases	3~
30	Specific design	- / 50 Hz / Pole pairs 1	Frame size	71
31	Rated power kW	0.55	Weight	kg 6.2
32	Number of poles	2	Electric voltage	V 230
33	Speed 1/min	2830	Electric current	A 2.6
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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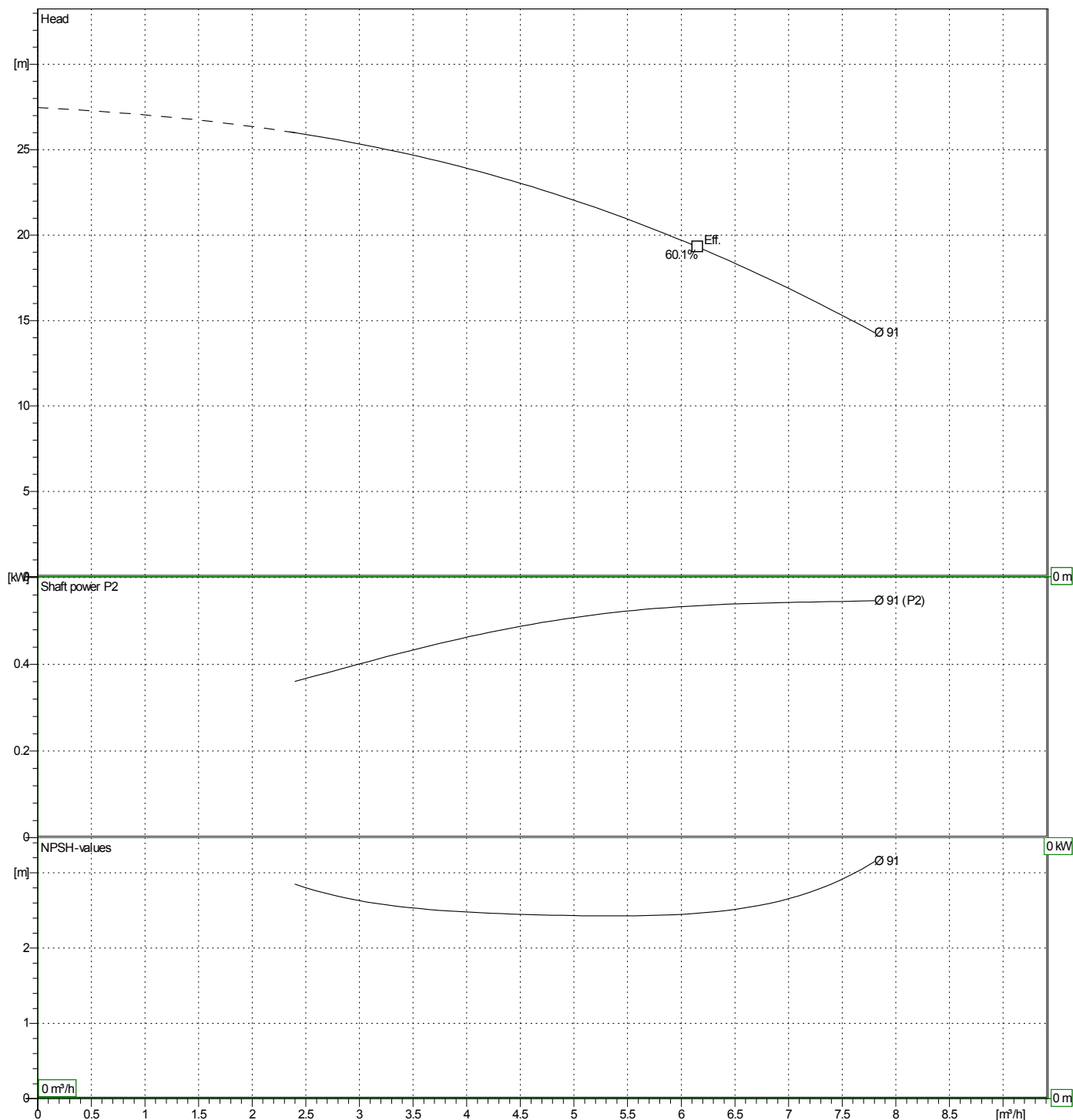
1	Flow	m³/h	0
2	Head	m	0
3	Static head	m	0

Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles	2	
Impeller Diameter	Designed mm	91	Speed	1/min

Test standard: ISO 9906:2012 - Grade3B

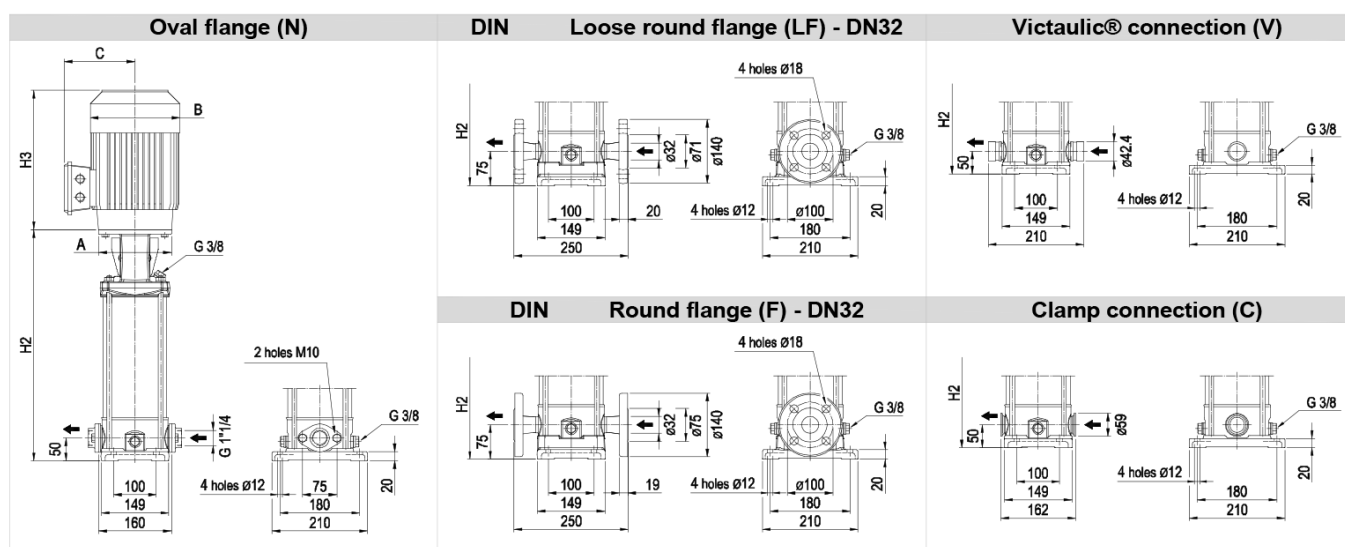
Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s



Dimensions

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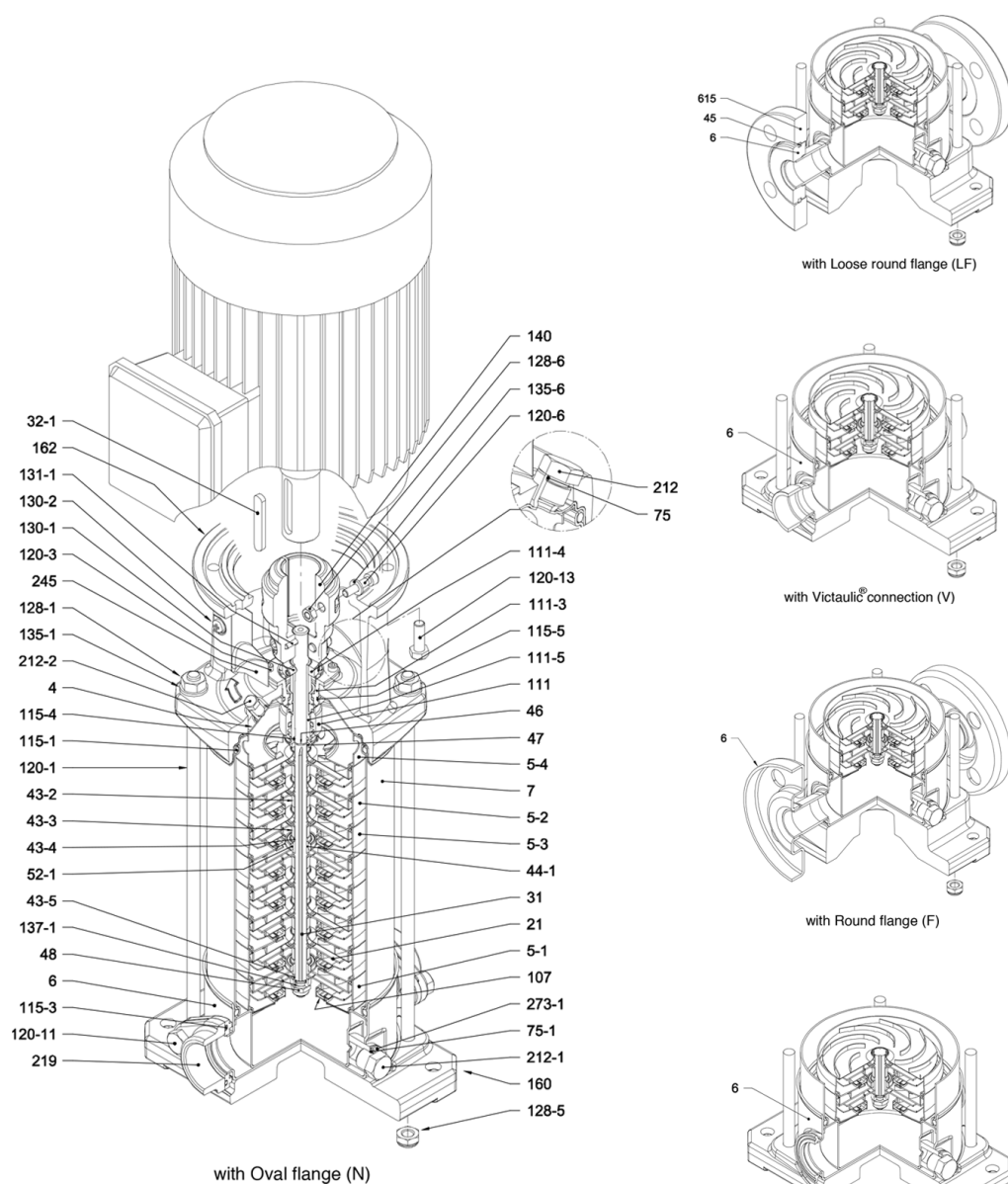


Dimensions in mm							
1	A	Dia105					
2	B	139					
3	C	114					
4	H2	317					
5	H3	216					
6	Weight P&M	17.7kg					

(1/4) Construction

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(2/4) Construction

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N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)	EN 1.4404 (AISI 316L) - EN 1.4462 (AISI 329A)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
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 1.4401 (AISI 316)		
43-4	Shaft sleeve (adjustment)	EN 1.4404 (AISI 316L)			
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M8	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM *		D. 12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM *			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4401 (AISI 316) + PPS		
111	Mechanical Seal	--- **			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
115-1	O-Ring (outer casing)	EPDM / FPM *		D. 129.54x5.34	OR 6510
115-3	O-Ring	EPDM / FPM *			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM *		D. 11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM / FPM *		D. 32.99x2.62	OR 3131
120-1	Tie-rod	Galvanized steel 6.8 strength class ISO 898/1		M10	
120-3	Screw	A2-70 UNI 7323		M4x10	ISO 4762
120-6	Screw for coupling	up to 4.0 kW above 5.5 kW	Galvanized steel	M6x25	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323		M8x20	ISO 4762
120-13	Screw for motor	MEC 71-80 MEC 90-100-112 MEC 132	Galvanized steel 8.8 strength class ISO 898/1	M6x20	ISO 4017
128-1	Nut for tie rod	Galvanized steel		M10	UNI 5588
128-3	Nut (motor)	MEC 132	Galvanized steel	M12	ISO 4032
128-5	Nut for tie rod	A2-70 UNI 7323		M10	UNI 7474
128-6	Nut for coupling	Galvanized steel		M6	ISO 4032
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		D. 4x32	UNI 4838
135-1	Washer	Galvanized steel		D. 10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel		Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
140	Coupling	up to 4.0 kW above 5.5 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe)		
160	Base	Cast Iron			
162	Motor bracket	Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
212	Plug	Cast iron EN-GJL-200-EN 1561			
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	G 3/8	
212-2	Venting plug	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	G 3/8	
219	Counter flange	EN 1.4404 (AISI 316L)			
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
615	Flange	Nodular Cast Iron			

* EPDM (standard)
FPM (option)

** see Construction (4/4)

(3/4)

Construction

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Pump Type	N°																														
	4	5-1	5-2	5-3	5-4	6	7	21	31***	32-1	43-2	43-3	43-4	43-5	44-1	45**	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5
EVMS(L)5 2/0.37	1	1	/	1	1	1	1	2	1	1	/	1	1	/	1	4	2	1	1	1	1	2	2	1	1	1	1	2	2	1	1
EVMS(L)5 3/0.55	1	1	1	1	1	1	1	3	1	1	3	1	1	1	1	4	2	1	1	1	1	2	3	1	1	1	1	2	2	1	1
EVMS(L)5 4/0.75	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	4	2	1	1	1	1	2	4	1	1	1	1	2	2	1	1
EVMS(L)5 5/1.1	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	4	2	1	1	1	1	2	5	1	1	1	1	2	2	1	1
EVMS(L)5 6/1.5	1	1	4	1	1	1	1	6	1	1	9	1	1	1	1	4	2	1	1	1	1	2	6	1	1	1	1	2	2	1	1
EVMS(L)5 7/1.5	1	1	5	1	1	1	1	7	1	1	11	1	1	/	1	4	2	1	1	1	1	2	7	1	1	1	1	2	2	1	1
EVMS(L)5 8/2.2	1	1	6	1	1	1	1	8	1	1	13	1	1	/	1	4	2	1	1	1	1	2	8	1	1	1	1	2	2	1	1
EVMS(L)5 9/2.2	1	1	7	1	1	1	1	9	1	1	15	1	1	1	1	4	2	1	1	1	1	2	9	1	1	1	1	2	2	1	1
EVMS(L)5 10/2.2	1	1	8	1	1	1	1	10	1	1	17	1	1	/	1	4	2	1	1	1	1	2	10	1	1	1	1	2	2	1	1
EVMS(L)5 11/2.2	1	1	8	2	1	1	1	11	1	1	17	2	2	/	2	4	2	1	1	2	1	2	11	1	1	1	1	2	2	1	1
EVMS(L)5 12/3.0	1	1	9	2	1	1	1	12	1	1	19	2	2	1	2	4	2	1	1	2	1	2	12	1	1	1	1	2	2	1	1
EVMS(L)5 13/3.0	1	1	10	2	1	1	1	13	1	1	21	2	2	/	2	4	2	1	1	2	1	2	13	1	1	1	1	2	2	1	1
EVMS(L)5 14/3.0	1	1	11	2	1	1	1	14	1	1	23	2	2	/	2	4	2	1	1	2	1	2	14	1	1	1	1	2	2	1	1
EVMS(L)5 15/3.0	1	1	12	2	1	1	1	15	1	1	25	2	2	1	2	4	2	1	1	2	1	2	15	1	1	1	1	2	2	1	1
EVMS(L)5 17/4.0	1	1	14	2	1	1	1	17	1	1	29	2	2	/	2	4	2	1	1	2	1	2	17	1	1	1	1	2	2	1	1
EVMS(L)5 19/4.0	1	1	16	2	1	1	1	19	1	1	33	2	2	/	2	4	2	1	1	2	1	2	19	1	1	1	1	2	/	1	1
EVMS(L)5 20/4.0	1	1	17	2	1	1	1	20	1	1	35	2	2	/	2	4	2	1	1	2	1	2	20	1	1	1	1	2	/	1	1
EVMS(L)5 23/5.5	1	1	20	2	1	1	1	23	1	1	41	2	2	/	2	4	2	1	1	2	1	2	23	1	1	1	1	2	/	1	1
EVMS(L)5 25/5.5	1	1	22	2	1	1	1	25	1	1	45	2	2	/	2	4	2	1	1	2	1	2	25	1	1	1	1	2	/	1	1
EVMS(L)5 27/5.5	1	1	23	3	1	1	1	27	1	1	47	3	2	/	3	4	2	1	1	3	1	2	27	1	1	1	1	2	/	1	1

Pump Type	N°																											
	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-1	212-2	219*	245	273-1	615**			
EVMS(L)5 2/0.37	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 3/0.55	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 4/0.75	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 5/1.1	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 6/1.5	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 7/1.5	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 8/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 9/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 10/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 11/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 12/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 13/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 14/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 15/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 17/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)5 19/4.0	4	4	4	/	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)5 20/4.0	4	4	4	/	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)5 23/5.5	4	4	4	/	4	4	4	/	4	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)5 25/5.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)5 27/5.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2			

* only for Oval flange (N)

** only for Loose round flange (LF)

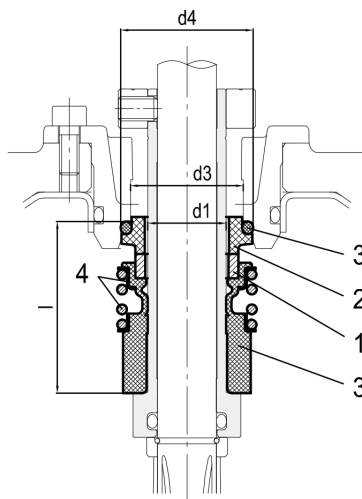
***  shaft in EN 1.4462 (AISI 329A)

128-3: only for motor up to 5.5 kW

(4/4) Construction

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● : Standard

Pump model	Max operating temperature	Shaft seal type		Shaft seal material									Type key	
Max operating pressure		Cartridge		1		2		3		4				5
		Unbalanced	Balanced	Rotating Part	Code	Stationary Part	Code	Elastomers	Code	Compression spring	Collar	Code		
up to 16 bar	- 30°C to + 120°C	●		SiC	(Q1)	Carbon	(B)	EPDM	(E)	AISI 316			(G)	Q1BEG

Max operating pressure	d1	d2	d3	d4	l
	[mm]	[mm]	[mm]	[mm]	[mm]
16 bar	16	-	23	27	35