

Technical data

Pump name

EVMS15 2LF5HQgQ1EGE/2.2

Customer	Date 13-July -2017	Company
Contact	Item no. 1.1	Issued by
Phone	Project	Phone
E-mail	Project ID EBARA Pump Selector-2094759	E-mail

Requested data

1	Pump type	VERTICAL MULTISTAGE PUMP	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h	0	Kin. viscosity mm²/s	1
4	Head m	0	Vapour pressure bar	0.022
5	Static head m	0	PH value	7
6	Inlet pressure bar	0.1	Density kg/dm³	1
7	Available system NPSH	0	Solids Weight %	0
8	Environmental temperature °C	20	Altitude m	1000

Pump

9	Pump name	EVMS15 2LF5HQgQ1EGE/2.2	Frequency Hz	50
10	Design	VERTICAL MULTISTAGE PUMP	Installation type	Loose flange
11	Manufacturer	EPE	Impeller	Max. mm 107
12	Speed 1/min	2900	Diameter	Designed mm 107
13	No. of Stage	2		Min. mm 107
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side			Max- m³/h 24
16	Max Working Pressure bar	16		Min- m³/h 7.8
17	Shut-off head bar	2.92	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 16.9
19	Shaft power kW			- (Qmin.) m 27.6
20			Max. Shaft Power at max. impeller	kW 1.79
21	Required NPSH m		Efficiency	%

Materials

22	Impeller	AISI 304		
23	Intermediate casing	AISI 304		
24	Bottom casing	AISI 304		
25	Shaft	AISI 304		
26	O-ring	EPDM		
27				

Motor

28	Manufacturer	ETM	Insulation class	F
29	Type	TEFC_EVMS15 2/2.2_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	90
31	Rated power kW	2.2	Weight kg	15
32	Number of poles	2	Electric voltage V	400
33	Speed 1/min	2875	Electric current A	4.7
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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Requested data

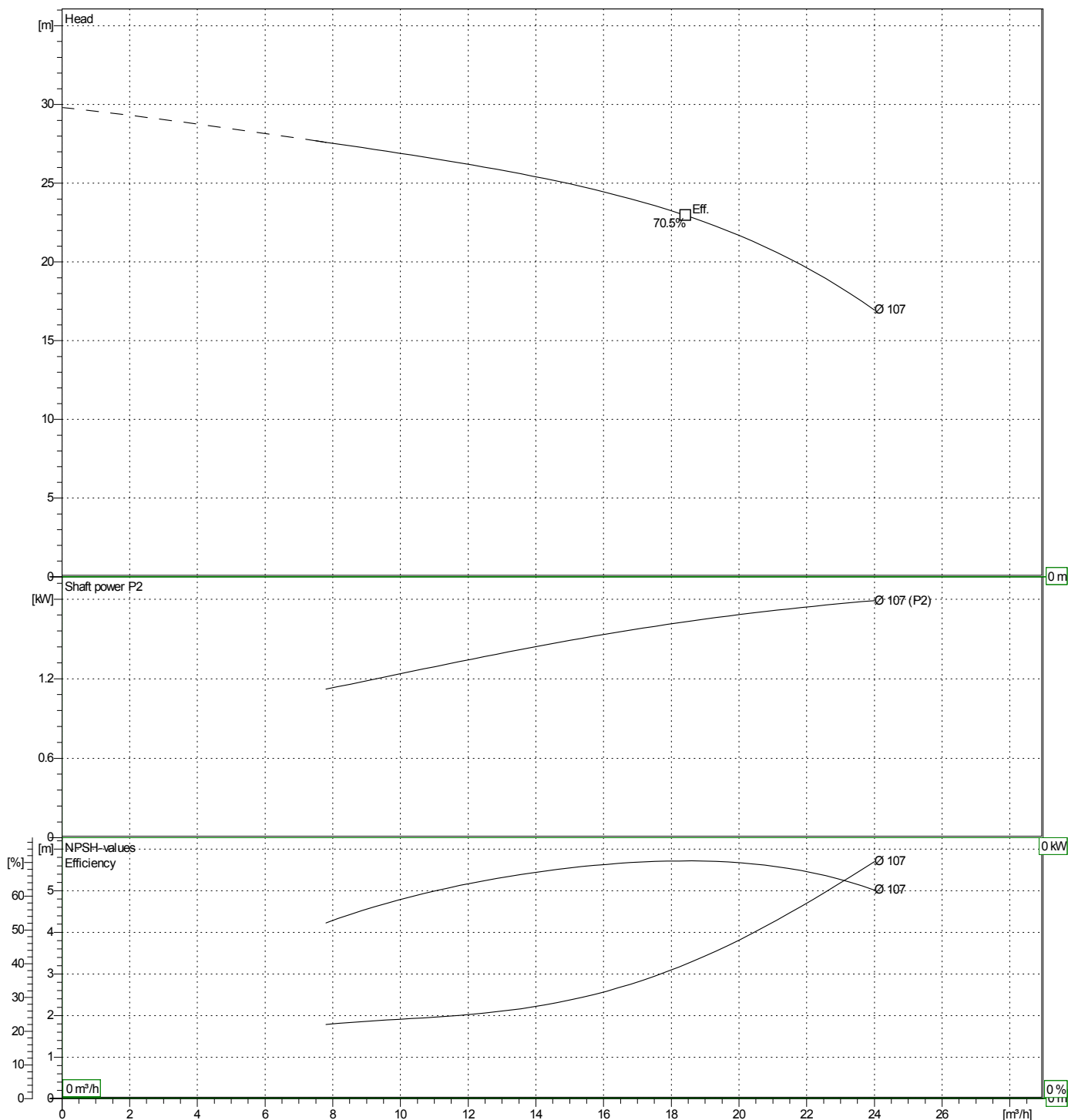
1	Flow	m³/h	0
2	Head	m	0
3	Static head	m	0

Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles	2	
Impeller Diameter	Designed mm	Speed	1/min	
107				

Test standard: ISO 9906:2012 - Grade3B

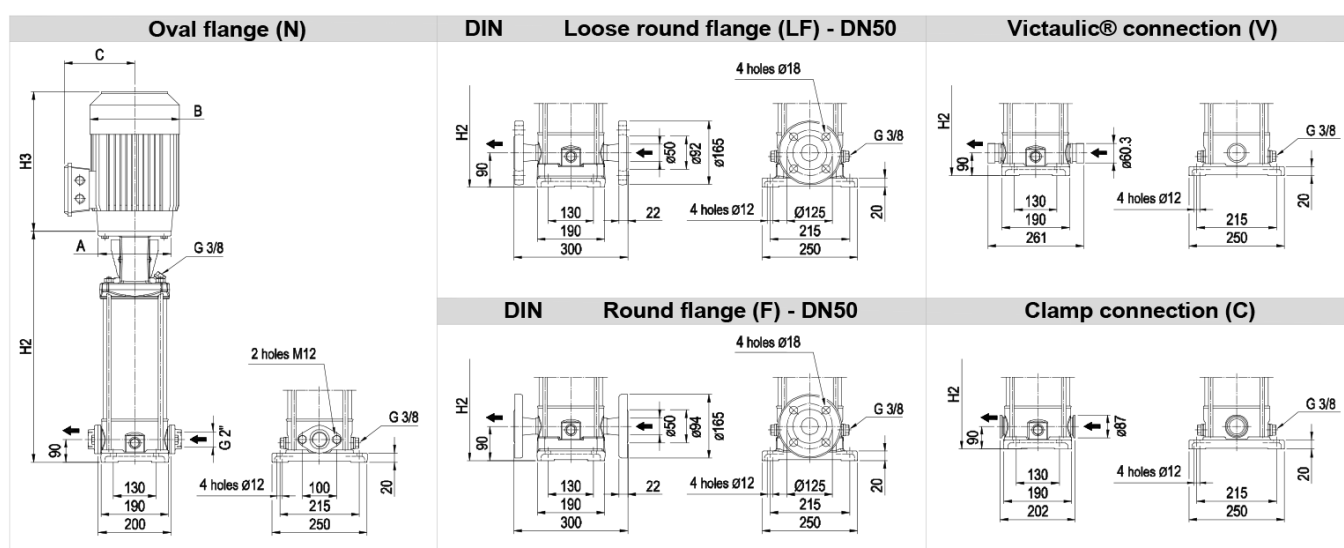
Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1mm²/s



Dimensions

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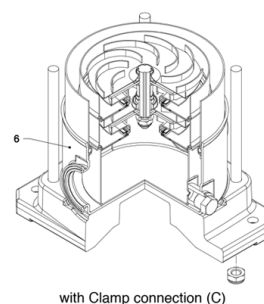
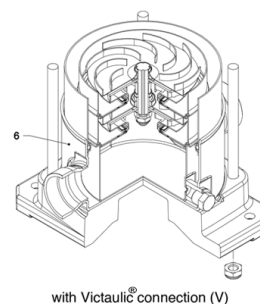
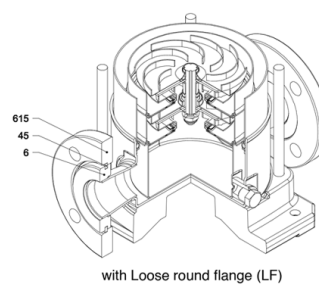
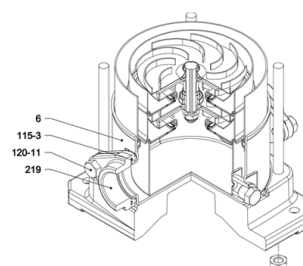
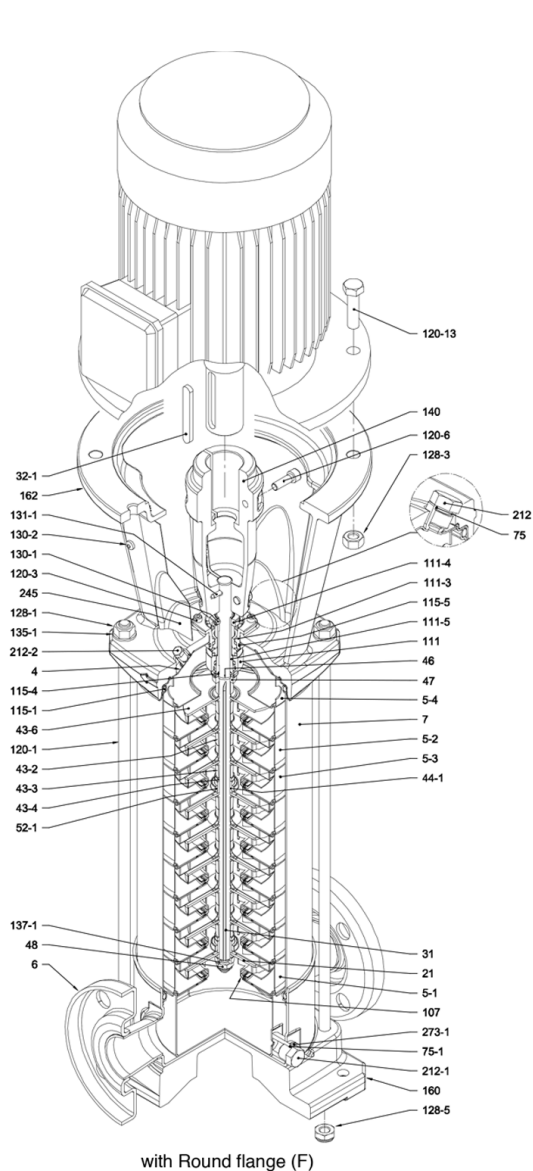


Dimensions in mm							
1	A	Dia140					
2	B	160					
3	C	119					
4	H2	387					
5	H3	291					
6	Weight P&M	34.1kg					

(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 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			
43-6	Washer	EN 1.4404 (AISI 316L)		D. 26x2.5		
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	M10		
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. 164.46x5.34	OR 6645	
115-3	O-Ring	EPDM / FPM *				
115-4	O-Ring (cartridge sleeve)	EPDM / FPM *		D. 15.88x2.62	OR 121	
115-5	O-Ring (seal cover)	EPDM / FPM *		D. 37.77x2.62	OR 3150	
120-1	Tie-rod	Galvanized steel 6.8 strength class ISO 898/1		M12		
120-3	Screw	A2-70 UNI 7323		M5x12	ISO 4762	
120-6	Screw for coupling	up to 4.0 kW from 5.5 kW to 7.5 kW above 11 kW	Galvanized steel	M6x25	ISO 4762	
				M8x20	ISO 4762	
				M10x30	ISO 4762	
120-11	Screw for counterflange	A2-70 UNI 7323				
120-13	Screw for motor	MEC 80 MEC 90-100-112 MEC 132 MEC 160	Galvanized steel 8.8 strength class ISO 898/1	M6x20	ISO 4017	
				M8x20	ISO 4017	
				M12x40	UNI 5739	
				M16x50	ISO 4017	
128-1	Nut for tie rod	Galvanized steel		M12	UNI 5588	
128-3	Nut (motor)	MEC 132 MEC 160	Galvanized steel	M12	UNI 5588	
				M16	ISO 4032	
128-5	Nut for tie rod	Galvanized steel		M12	UNI 7474	
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.5x35	UNI 4838	
135-1	Washer	Galvanized steel		D. 13x24x2,5	UNI 6592	
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) Cast Iron			
160	Base	Die cast Aluminium EN AB-AISI11Cu2 (Fe)				
162	Motor bracket	Cast iron EN-GJL-200-EN 1561				
212	Plug	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	G 3/8		
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	G 3/8		
212-2	Venting plug	EN 1.4404 (AISI 316L)				
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			
245	Coupling guard	EN 1.4301 (AISI 304)				
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			
615	Flange	Carbon steel				

* 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	43-6	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)15 1/1.1	1	1	/	1	1	1	1	1	1	1	/	1	1	1	1	4	2	1	1	1	1	2	1	1	1	1	1	1	2	2	1	1
EVMS(L)15 2/2.2	1	1	/	1	1	1	1	2	1	1	/	1	1	/	1	4	2	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1
EVMS(L)15 3/3.0	1	1	1	1	1	1	1	3	1	1	3	1	1	/	1	4	2	1	1	1	1	2	3	1	1	1	1	1	2	2	1	1
EVMS(L)15 4/4.0	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	1	2	2	1	1
EVMS(L)15 5/5.5	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	1	2	2	1	1
EVMS(L)15 6/5.5	1	1	4	1	1	1	1	6	1	1	9	1	1	/	1	4	2	1	1	1	1	2	6	1	1	1	1	1	2	2	1	1
EVMS(L)15 7/7.5	1	1	4	2	1	1	1	7	1	1	9	2	2	/	2	4	2	1	1	2	1	2	7	1	1	1	1	1	2	2	1	1
EVMS(L)15 8/7.5	1	1	5	2	1	1	1	8	1	1	11	2	2	/	2	4	2	1	1	2	1	2	8	1	1	1	1	1	2	2	1	1
EVMS(L)15 9/11	1	1	6	2	1	1	1	9	1	1	13	2	2	/	2	4	2	1	1	2	1	2	9	1	1	1	1	1	2	2	1	1
EVMS(L)15 10/11	1	1	7	2	1	1	1	10	1	1	15	1	2	/	2	4	2	1	1	2	1	2	10	1	1	1	1	1	2	2	1	1
EVMS(L)15 11/11	1	1	8	2	1	1	1	11	1	1	17	1	2	/	2	4	2	1	1	2	1	2	11	1	1	1	1	1	2	2	1	1
EVMS(L)15 12/11	1	1	9	2	1	1	1	12	1	1	19	1	2	/	2	4	2	1	1	2	1	2	12	1	1	1	1	1	2	/	1	1
EVMS(L)15 13/11	1	1	10	2	1	1	1	13	1	1	21	1	2	/	2	4	2	1	1	2	1	2	13	1	1	1	1	1	2	/	1	1
EVMS(L)15 15/15	1	1	12	2	1	1	1	15	1	1	25	1	2	/	2	4	2	1	1	2	1	2	15	1	1	1	1	1	2	/	1	1
EVMS(L)15 17/15	1	1	13	3	1	1	1	17	1	1	27	2	2	/	3	4	2	1	1	3	1	2	17	1	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)15 1/1.1	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)15 2/2.2	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)15 3/3.0	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)15 4/4.0	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)15 5/5.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 6/5.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 7/7.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 8/7.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 9/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 10/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 11/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2			
EVMS(L)15 12/11	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)15 13/11	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)15 15/15	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2			
EVMS(L)15 17/15	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)

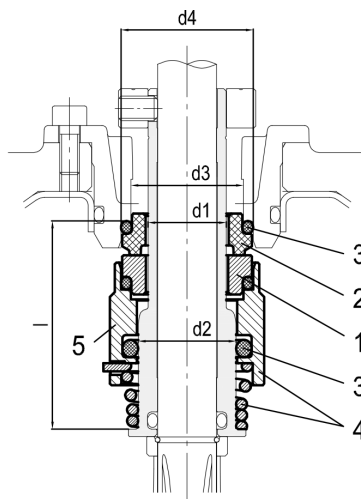
***  shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6 : with Aluminium coupling

(4/4) Construction

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O : On request

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 + 140°C		O	SiC with graphite	(Qg)	SiC	(Q1)	EPDM	(E)	AISI 316		(G)	HQgQ1EG	

Max operating pressure	d1	d2	d3	d4	l
	[mm]	[mm]	[mm]	[mm]	[mm]
16 bar	20	-	29	35	37.5