Technical Data

Pump Name 3LM 50-160/9.26 IE3

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-20 10:03:09	E-mail

Requested data

1	Pump type	CENTRIFUGAL 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	3LM 50-160/9.26 IE3	Frequency		Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	154
12	Speed rpm	3480		Designed	mm	154
13	No. of Stage	1		Min.	mm	154
14	Connection Suction side	DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side	DIN 2532		Max-	m³/h	86
16	Max Working Pressure bar	10		Min-	m³/h	30
17	Shut-off head bar	4.70	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	25.8
19	Shaft power kW			- (Qmin.)	m	46.1
20			Max. Shaft Power at max. impeller		kW	8.81
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 316L		
23	Casing	AISI 316L		
24	Shaft	AISI 316L		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_3M 50-160/9.26_460_Three Phase	Phases		3~
30	Specific design	IE3 / 60 Hz / Pole pairs 1	Frame size		
31	Rated power kW	9.2	Weight	kg	
32	Number of poles	2	Electric voltage	V	460
33	Speed rpm	3500	Electric current	A	14.9
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance Curve

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Requested data

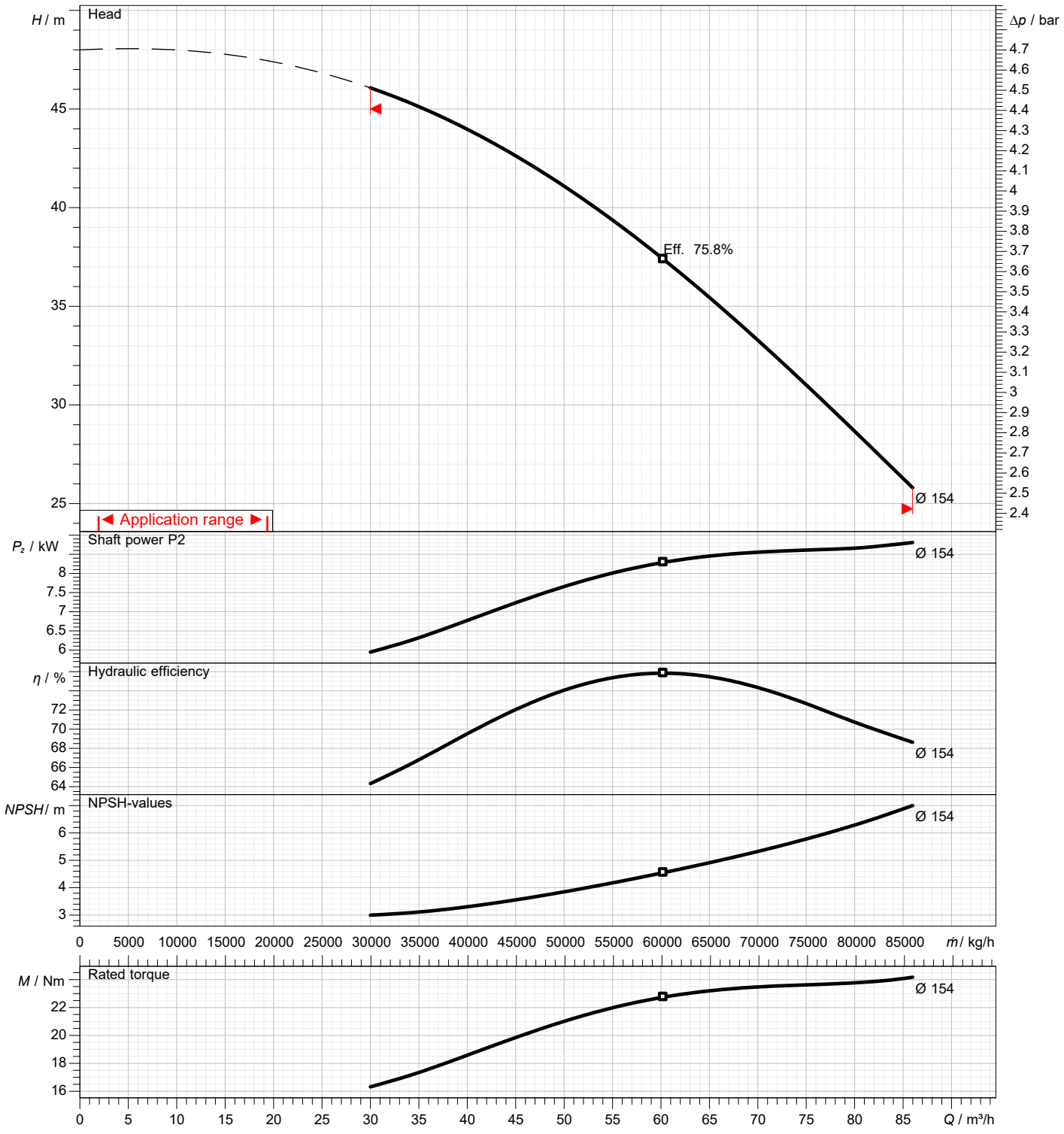
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	154	Speed	rpm	3480

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



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Dimensions

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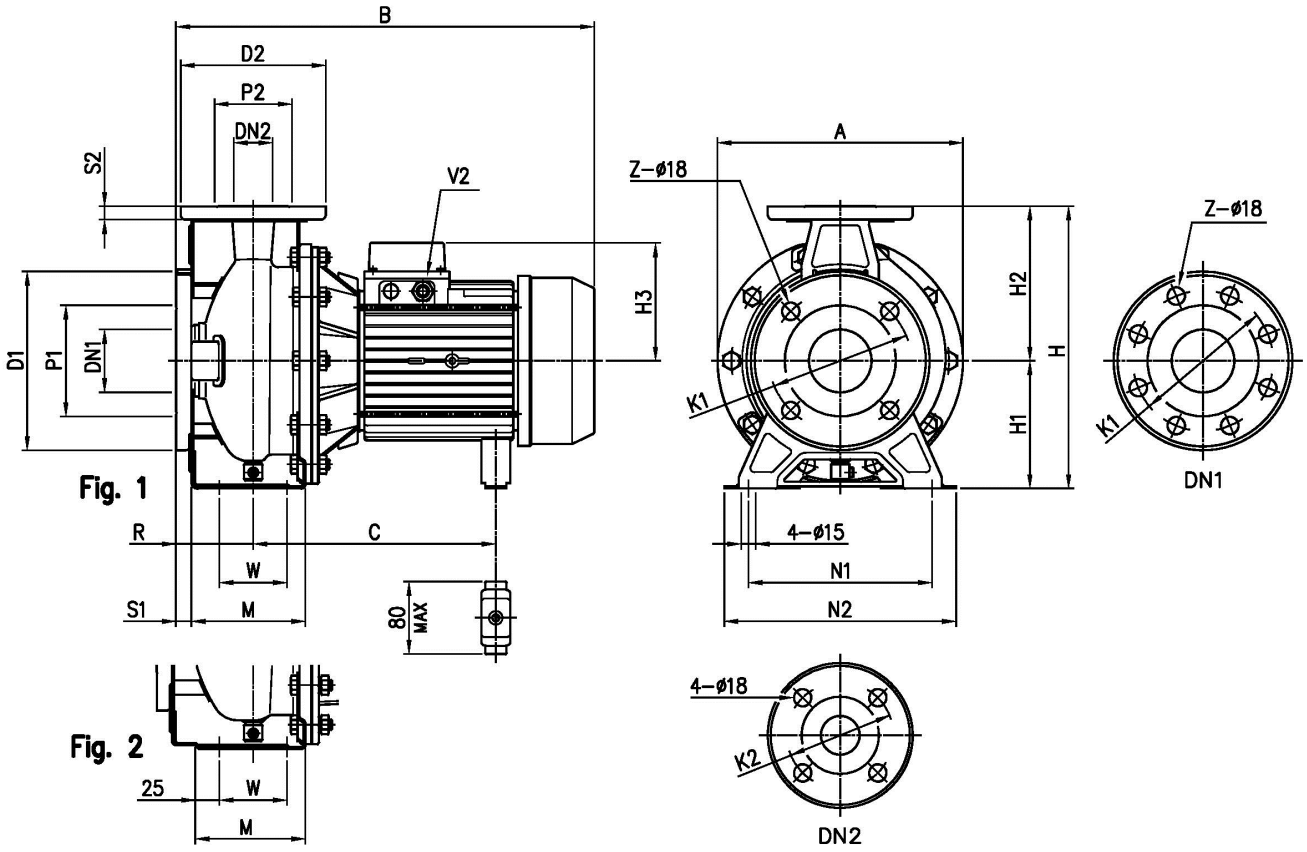

Dimensions in	mm							
1	A	296	H3	178				
2	B	595	M	115				
3	C	329	N1	212				
4	Dia D1	185	N2	265				
5	Dia D2	165	R	100				
6	Dia DN1	65	S1	16				
7	Dia DN2	50	S2	16				
8	Dia K1	145	V2	PG 21				
9	Dia K2	125	W	70				
10	Dia P1	115	Weight P&M	67,8 kg				
11	Dia P2	95	Z	4				
12	Fig	2						
13	H	340						
14	H1	160						
15	H2	180						

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Construction

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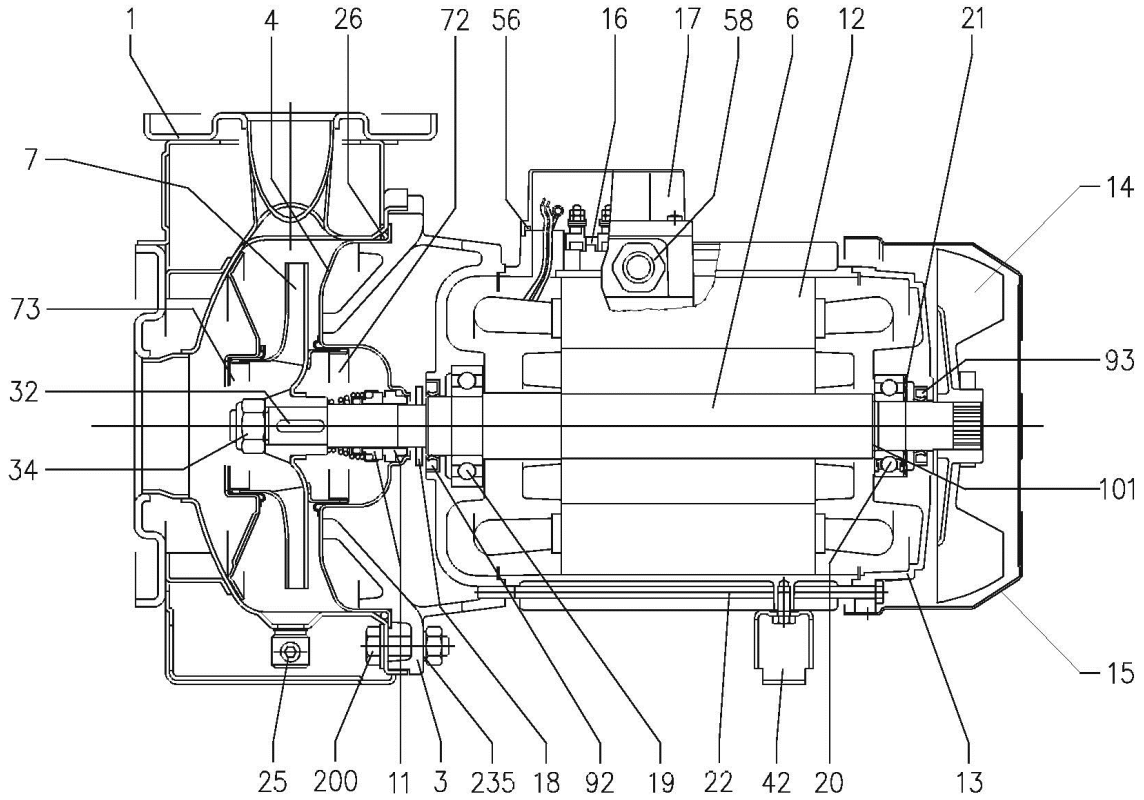
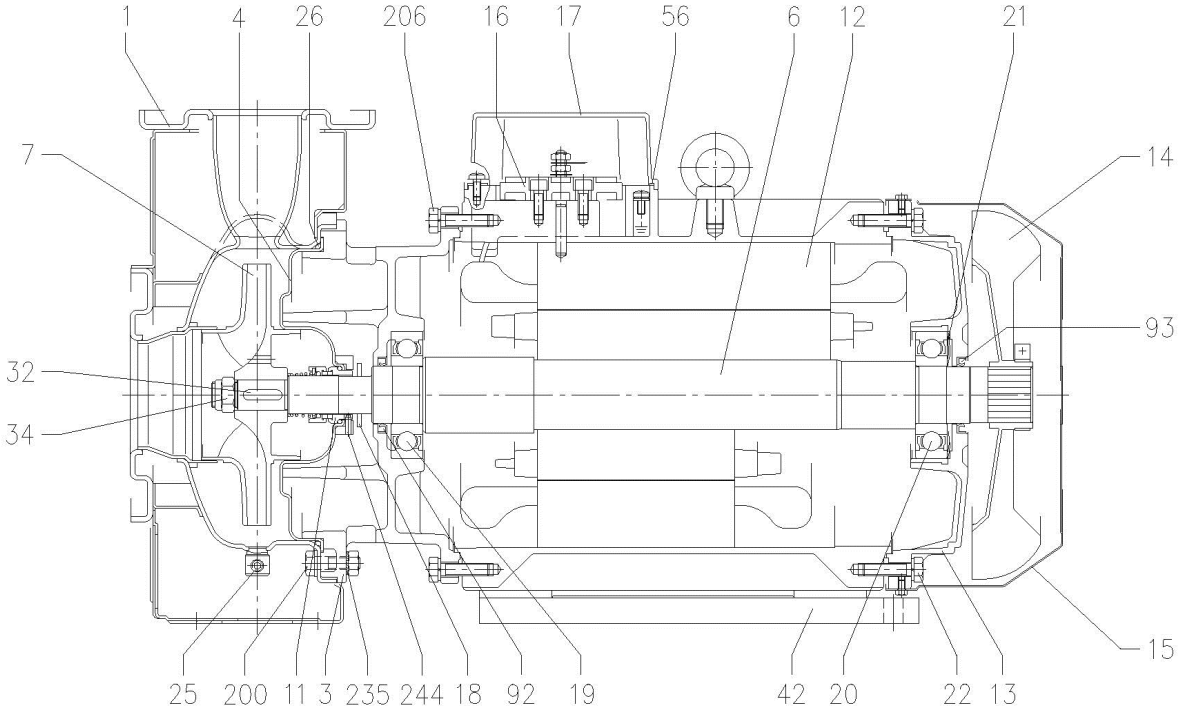
UP TO 11 kW



15 kW AND ABOVE



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Construction

Pump Name 3LM 50-160/9.26 IE3

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N°	PART NAME		MATERIAL 3M	MATERIAL 3LM	DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket [3]		-				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Shaft with rotor-Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
7	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
11	Mechanical seal [5]		-	-			1
12	Motor frame with stator		-				1
13	Motor cover		Aluminium				1
14	Fan		PA				1
15	Fan cover		Fe P04 Zincate				1
16	Terminal		-				1
17	Terminal box cover		Aluminium (three phase version)				1
18	Splash ring		NBR	-	40x21.5x3	EBARA DRAWING	[6]
19	Bearing [7]		-				1
20	Bearing [7]		-				1
21	Adjusting ring		Steel C70				1
22	Tie rod	For 2.2 - 3 kW	Fe 42 Zincate		M5	EBARA DRAWING	4
		For 4 - 5.5 - 7.5 kW			M6		
		For 9.2 - 11 - 15 kW			M8		
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
26	O-ring	32-125, 40-125	NBR/FPM/EPDM	FPM/EPDM	158.11x5.34	OR 6625	1
		40-160, 50-125 [4]			183.52x5.34	OR 6720	
		32-160, 32-200, 40-200, 50-160			227.96x5.34	OR 6895	
32	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
34	Impeller nut		A.270 EN ISO 35062		M16x1.5	UNI 7474	1
42	Foot		Aluminium / Zincate steel			EBARA DRAWING	1
56	Box gasket		NBR				1
58	Fasting nut		-				1
72	Casing ring [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
73	Casing ring		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
92	Lip seal	For 2.2 - 3 kW	-	-	25x40x7	DIN 3760 without spring	1
		For 4 - 5.5 - 7.5 kW			30x47X7		
		For 9.2 - 11 - 15 kW			40x55x7		
93	Lip seal	For 2.2 - 3 kW	-	-	25x40x7	DIN 3760 without spring	1
		For 4 - 5.5 - 7.5 kW			30x47X7		
		For 9.2 - 11 - 15 kW			40x55x7		
101	Snap ring (only for 9.2 - 11 - 15 kW)		Carbon tool steels TC 80		Ø 40	UNI 7435	1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		32-160, 32-200, 40-160, 40-200, 50-125, 50-160			M 10x35	UNI 5739	[2]
235	Washer	32-125, 40-125	EN 1.4301 (AISI 304)		M8.4x17	UNI 6592	8
		32-160, 32-200, 40-160, 40-200, 50-125, 50-160			M10.5x21		[2]

[1] For versions 32-200/5.56, 32-200/7.56, 40-200/5.5, 40-200/9.26, 40-200/156, 50-160/9.26, 50-160/156
[2] Quantity =10 for 32-160, 40-160, 50-125
Quantity =12 for 32-200, 40-200, 50-160
[3] Aluminium EN 1706 AC 46000 D for version, 40-200/9.26, 40-200/156, 50-160/9.26, 50-160/156
Cast iron EN-GJL-200-EN 1561 for other versions.
[4] See **MECHANICAL SEAL**, “O-ring” column, see CONSTRUCTION 3
[5] See **MECHANICAL SEAL,** see CONSTRUCTION 3
[6] Quantity =1, not for L version
[7] See **BEARINGS**, CONSTRUCTION 3
[8] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200

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Construction

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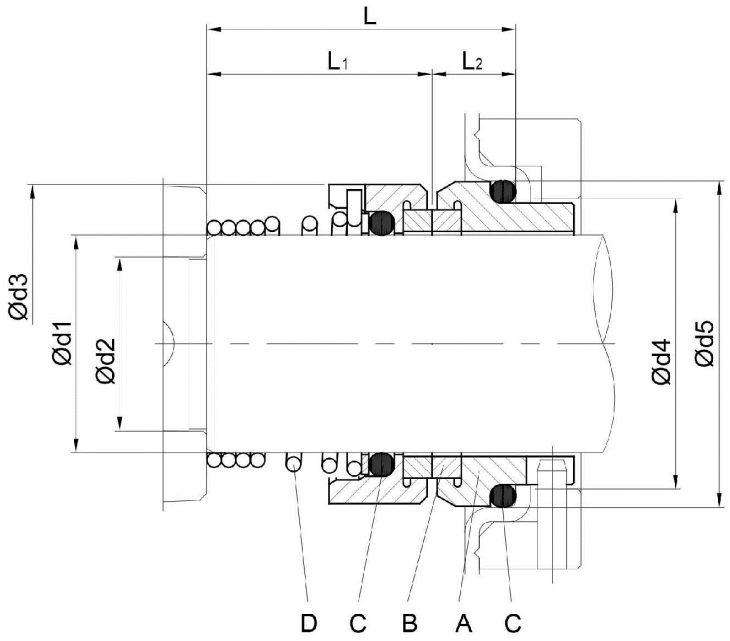

Version	Pump type	Dimensions [mm]								Material Standard			
		d1	d2	d3	d4	d5	L	L1	L2	A Stationary seal ring	B Rotary seal ring	C O-ring	D Frame + spring
L	32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7,56-9,26-116	22	19	36	31	37	37.5	27.5	9.5	SiC	SiC	FPM	EN 1.4401 (AISI 316)