Technical Data

Pump Name 3LP 80-200/376

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	3LP 80-200/376	Frequency		Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	194
12	Speed rpm	3520		Designed	mm	194
13	No. of Stage	1		Min.	mm	194
14	Connection Suction side	DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side	DIN 2532		Max-	m³/h	240
16	Max Working Pressure bar	10		Min-	m³/h	84
17	Shut-off head bar	6.95	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	42.0
19	Shaft power kW			- (Qmin.)	m	68.5
20			Max. Shaft Power at max. impeller		kW	36.96
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	CF8M		
23	Casing	CF8M		
24	Shaft	AISI 316L		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class		F
29	Type	TEFC_3LP 80-200/376_460_Three Phase	Phases		3~
30	Specific design	IE2 / 60 Hz / Pole pairs 1	Frame size		
31	Rated power kW	37	Weight	kg	
32	Number of poles	2	Electric voltage	V	460
33	Speed rpm	3500	Electric current	A	55
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance Curve

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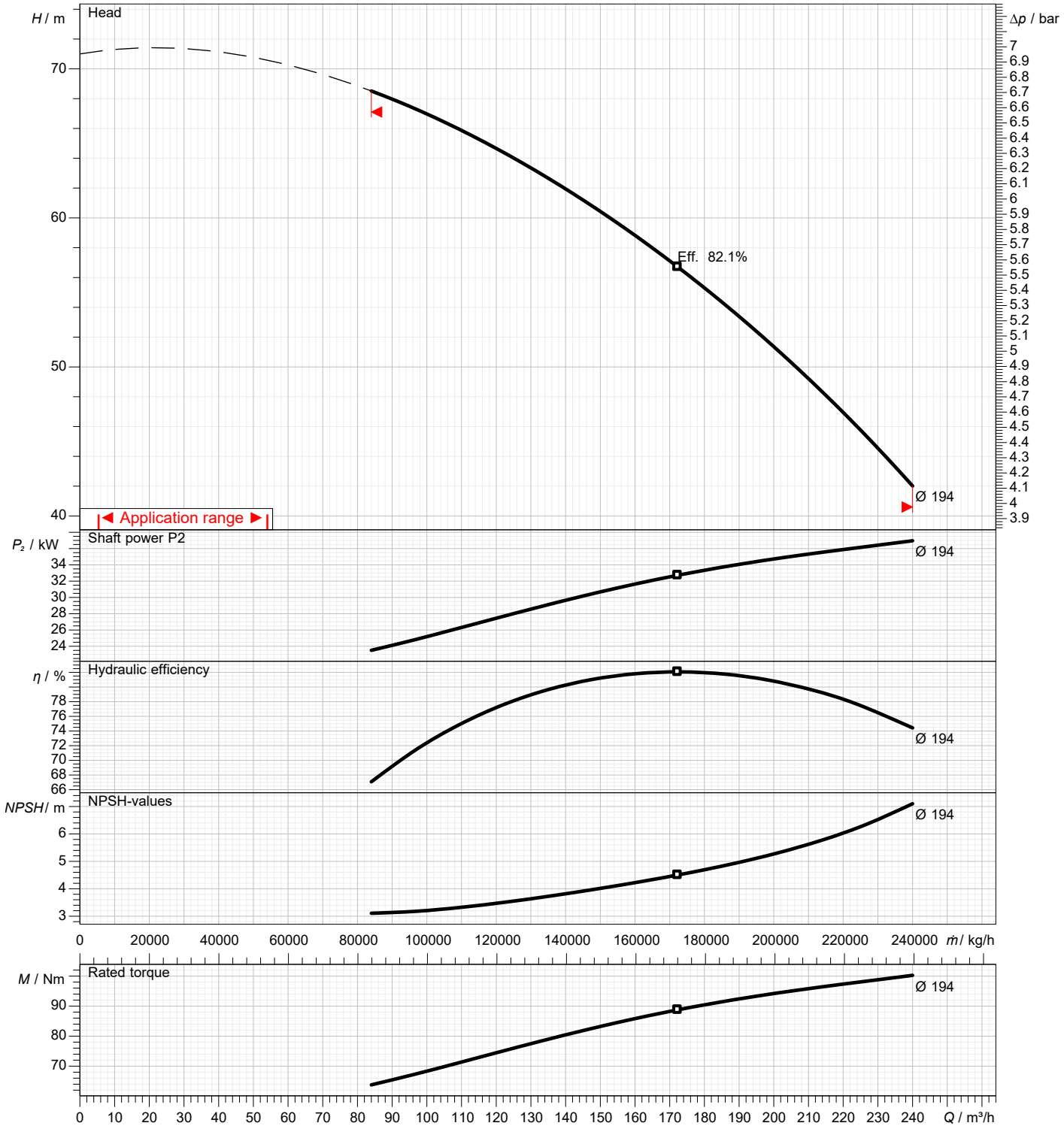
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	194	Speed	rpm	3520

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



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Dimensions

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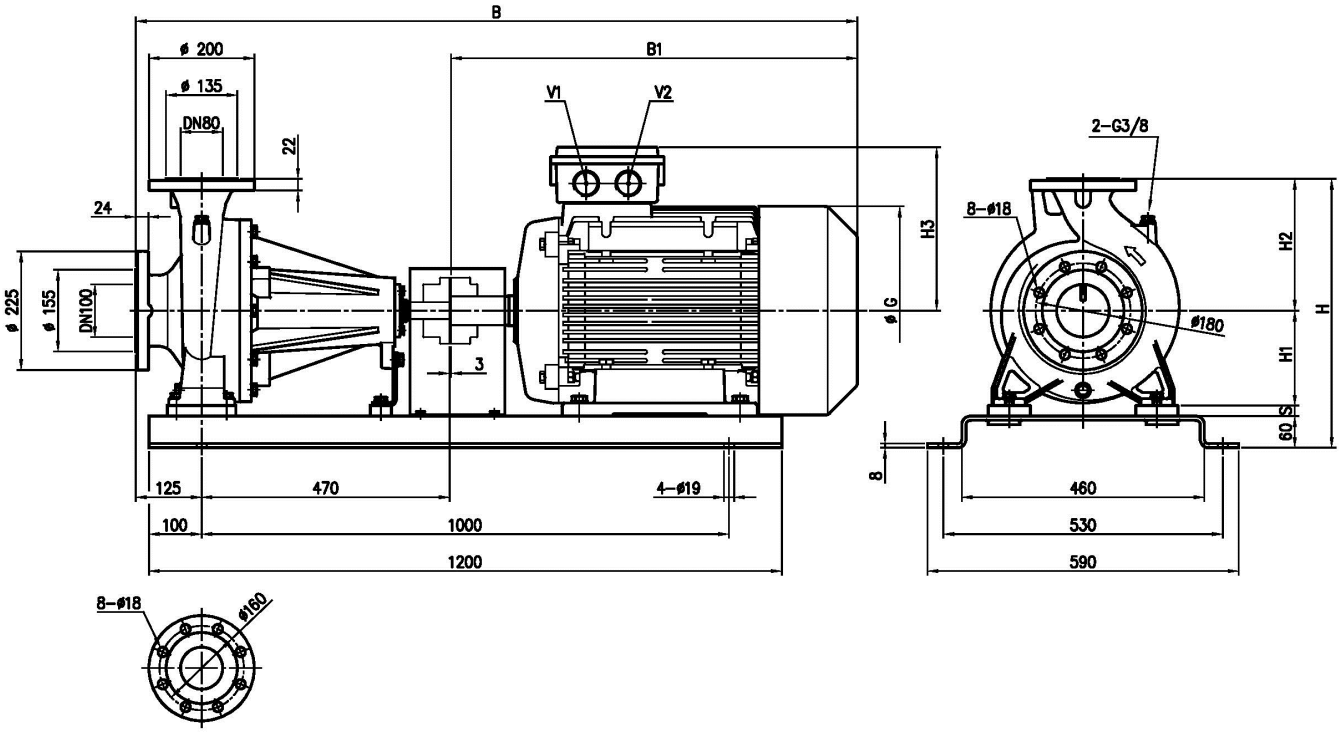

Dimensions in	mm							
1	B	1366						
2	B1	768						
3	G	399						
4	H	510						
5	H1	180						
6	H2	250						
7	H3	300						
8	S	20						
9	V1	M40x1,5						
10	V2	M40x1,5						
11	Weight P&M	365 kg						
12								
13								
14								
15								

EBARA

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Construction

Pump name 3LP 80-200/376

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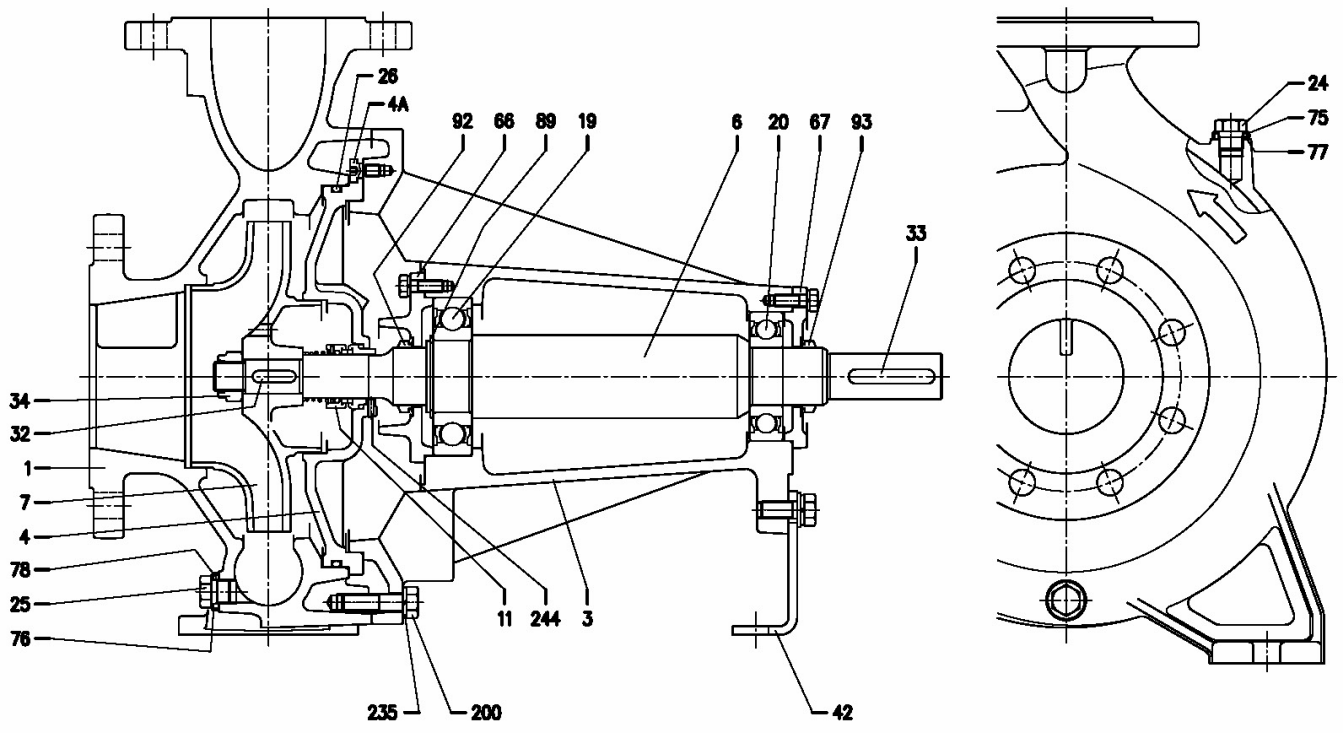

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Construction

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N°	PART NAME			MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing			CF8M - EN 1.4408 (AISI 316))			1
3	Support			Cast iron EN-GJL-200-EN 1561			1
4	Casing cover			EN 1.4401 (AISI 316)			1
4A	Screw for casing cover			EN 1.4301 (AISI 304)			2
6	Shaft			EN 1.4462 (Duplex stainless steel) - Wet extension			1
6A	Flexible coupling		[6]	Cast iron EN-GJL-250-EN 1561			1
7	Impeller			CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal		[5]	-			1
12	Motor			-			1
19	Bearing		[7]	-			1
20	Bearing			-			1
24	Plug			EN 1.4404 (AISI 316L)	G3/8		1
25	Plug			EN 1.4404 (AISI 316L)	G3/8		1
26	O-ring		[4]	FPM/EPDM	253.36x5.34	OR 6995	1
32	Key	65-250 80-200	d=24 mm	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
							1
		80-250	d=29 mm		8x7x40		1
33	Key			C 40	10x8x60	UNI 6604	1
34	impeller nut	65-250 80-200	d=24 mm	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
							1
		80-250	d=29 mm		M24x2		1
42	Pump support			Zincate steel			1
42A	Base			Zincate steel			1
44	Protection			Zincate steel			1
50	Foot			Aluminium			0
50A	Spacer			Aluminium			[1]
50B	Spacer			Aluminium			[2]
50C	Spacer for protection			Aluminium			[3]
66	Impeller side bearing cover			Cast iron EN-GJL-200-EN 1561			1
67	Motor side bearing cover			Cast iron EN-GJL-200-EN 1561			1
75	Washer (plug)			EN 1.4404 (AISI 316L)			1
76	Washer (plug)						1
77	O-ring (plug)		[4]	FPM/EPDM			1
78	O-ring (plug)						1
89	Snap ring			Carbon tool steels TC 80	Ø 50	UNI 7435	1
92	V-ring			-	VS-0040		1
93	V-ring						1
200	Screw			Stainless steel A2 70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer			EN 1.4301 (AISI 304)	13	UNI 8842	10
244	Pin		[3]	EN 1.4301 (AISI 304)	4x12	UNI 6873	1

[1] Quantity =0 for 65-250, 80-200/226 and 80-250/556
Quantity =2 for 80-200/306, 80-200/376 and 80-250/456
[2] Quantity =0 for 65-250, 80-200/226 and 80-250/556
Quantity =2 for 80-200/306, 80-200/376 and 80-250/456
[3] Not for H, HW, HSW, E version.
[4] See **MECHANICAL SEAL**, “O-ring” column, see CONSTRUCTION 3
[5] See **MECHANICAL SEAL**, see CONSTRUCTION 3
[6] See **FLEXIBLE COUPLING**, see CONSTRUCTION 3
[7] See **BEARINGS**,

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Construction

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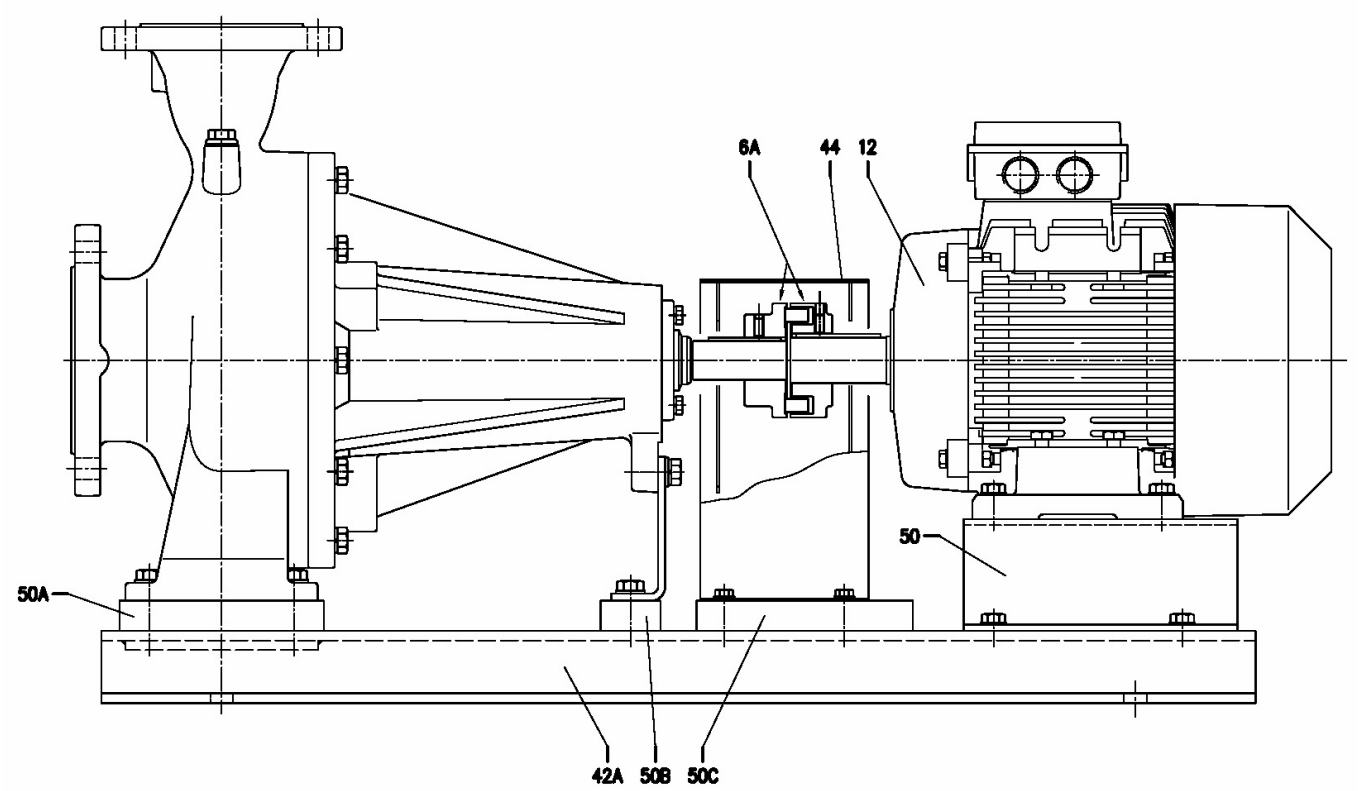

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Construction

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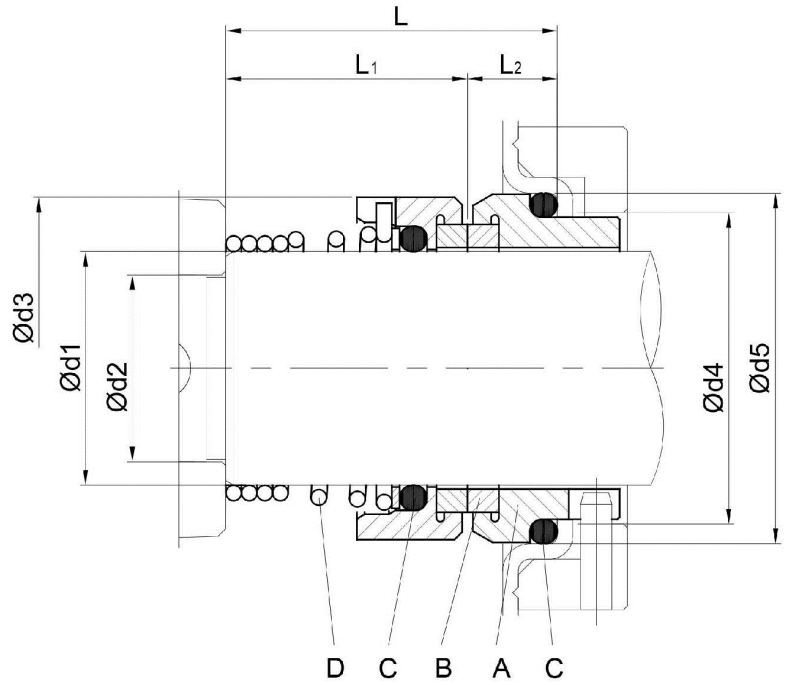

Version	Pump type	Dimensions [mm]								Material Standard			
		d1	d2	d3	d4	d5	L	L1	L2	A Stationary seal ring	B Rotary seal ring	C O-ring	D Frame + spring
L	65-160/156 65-200 65-250 80-160/200	30	24	44	39	45	42.5	31	11	SiC	SiC	FPM	EN 1.4401 (AISI 316)