

# Technical Data

Pump Name

3DS 65-200/22

Customer	Date	09.06.2024	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID		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	cSt 1.005
4	Head m		Vapour pressure	kPa 2.34
5	Geodetic head m		PH value	
6	Inlet pressure (pin) kPa	0	Density	kg/m³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature °C	20		

## Pump

9	Pump Name	3DS 65-200/22	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 212
12	Speed rpm	2900		Designed mm 212
13	No. of Stage	1		Min. mm 212
14	Connection Suction side	EN 1092-2	Flow	Operating m³/h
15	Connection Discharge side	EN 1092-2		Max- m³/h 138
16	Max Working Pressure kPa	1000		Min- m³/h 42
17	Shut-off head kPa	665.96	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 42.5
19	Shaft power kW			- (Qmin.) m 65.5
20			Max. Shaft Power at max. impeller	kW 22.12
21	Required pump NPSH m		Efficiency	%

## Materials

22	Impeller	AISI 316	
23	Casing	Cast iron	
24	Shaft	AISI 304 (wet extension)	
25			
26			
27			

## Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3DS 65-200/22_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	180 M
31	Rated power kW	22	Weight	kg 163
32	Number of poles	2	Electric voltage	V 400
33	Speed rpm	2900	Electric current	A 38
34	Degree of protection	IP 55		
35				

## Remarks

# Performance Curve

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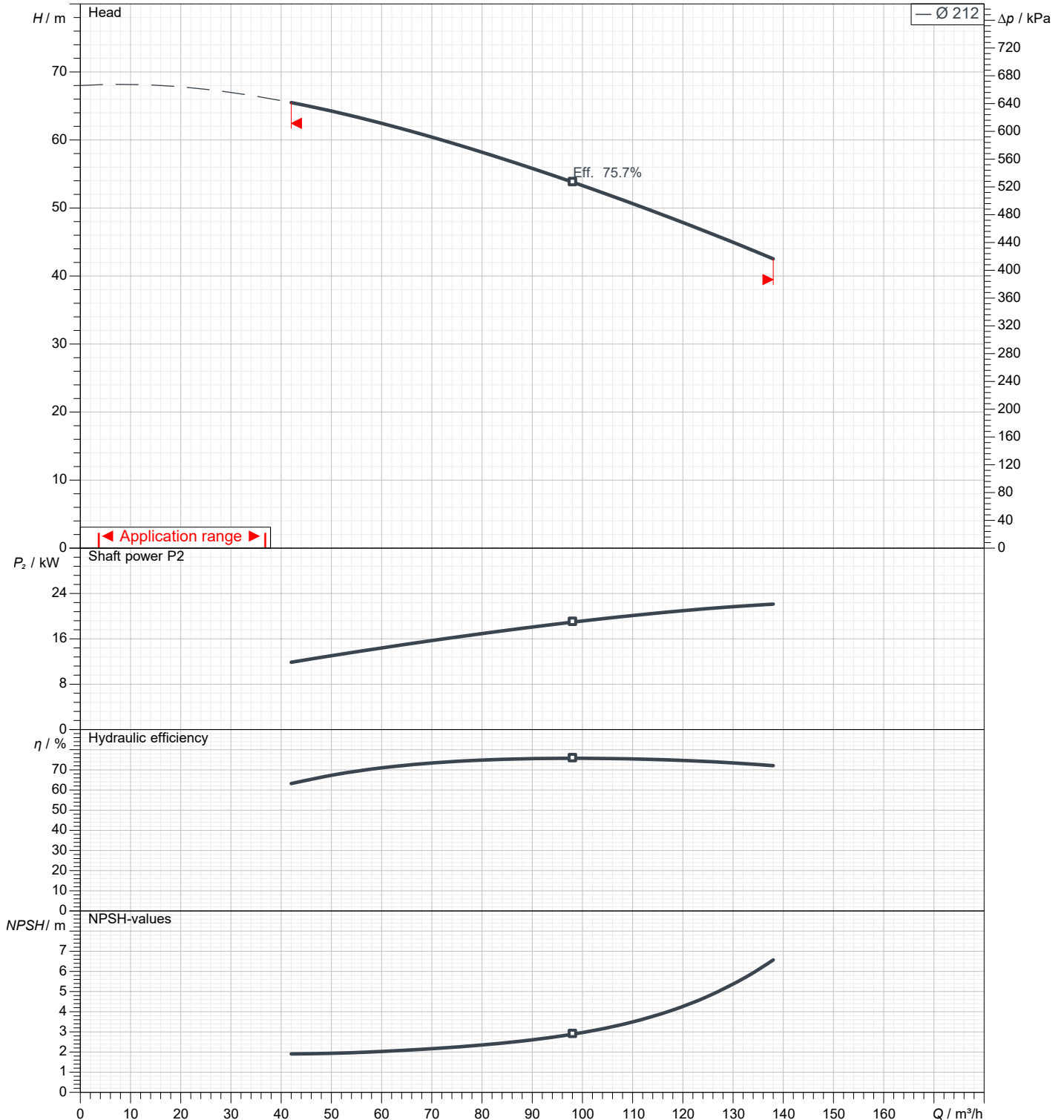
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

## Pump

Operating flow	m³/h	Frequency	Hz	50	
Operating head	m	Number of poles		2	
Impeller diameter designed	mm	212	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

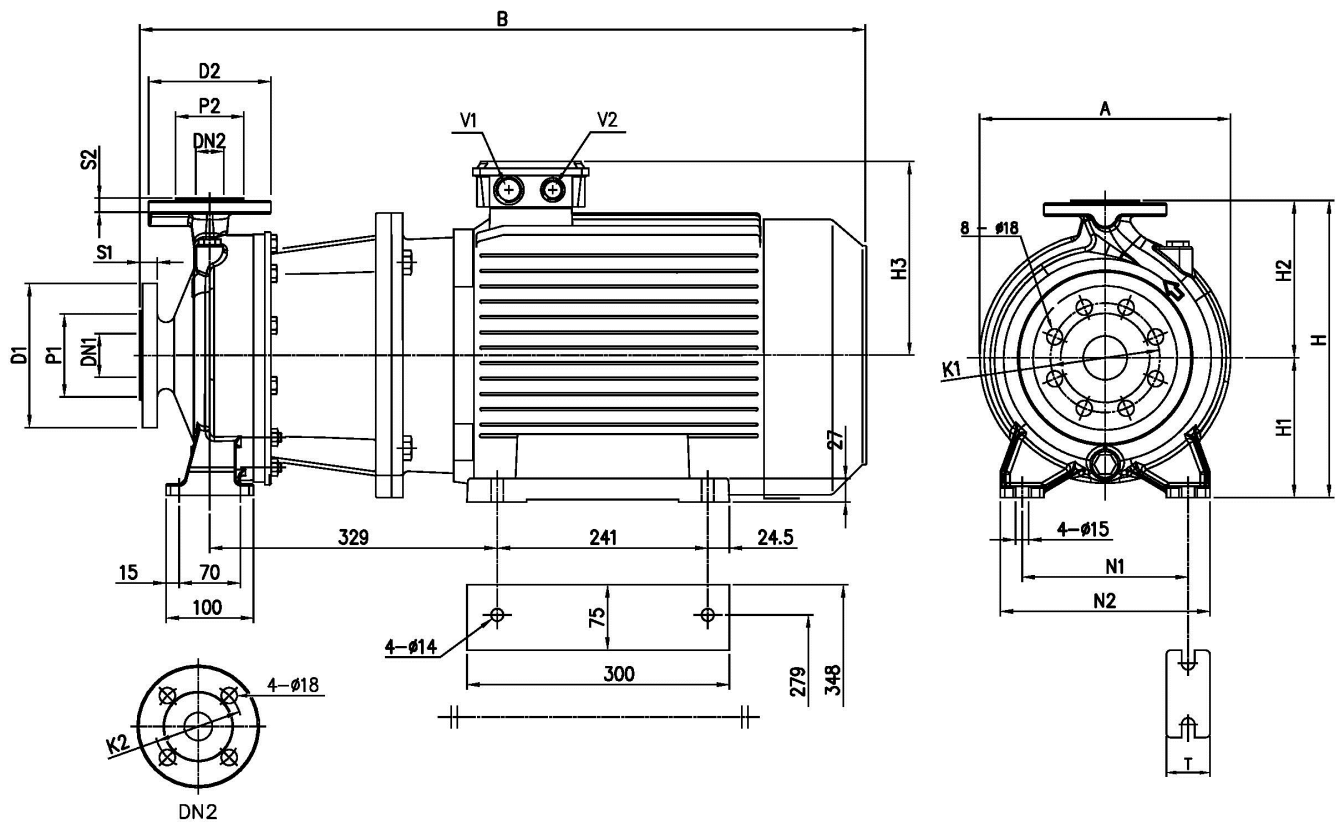
Water; 20°C; 998.3kg/m³; 1cSt



# Dimensions

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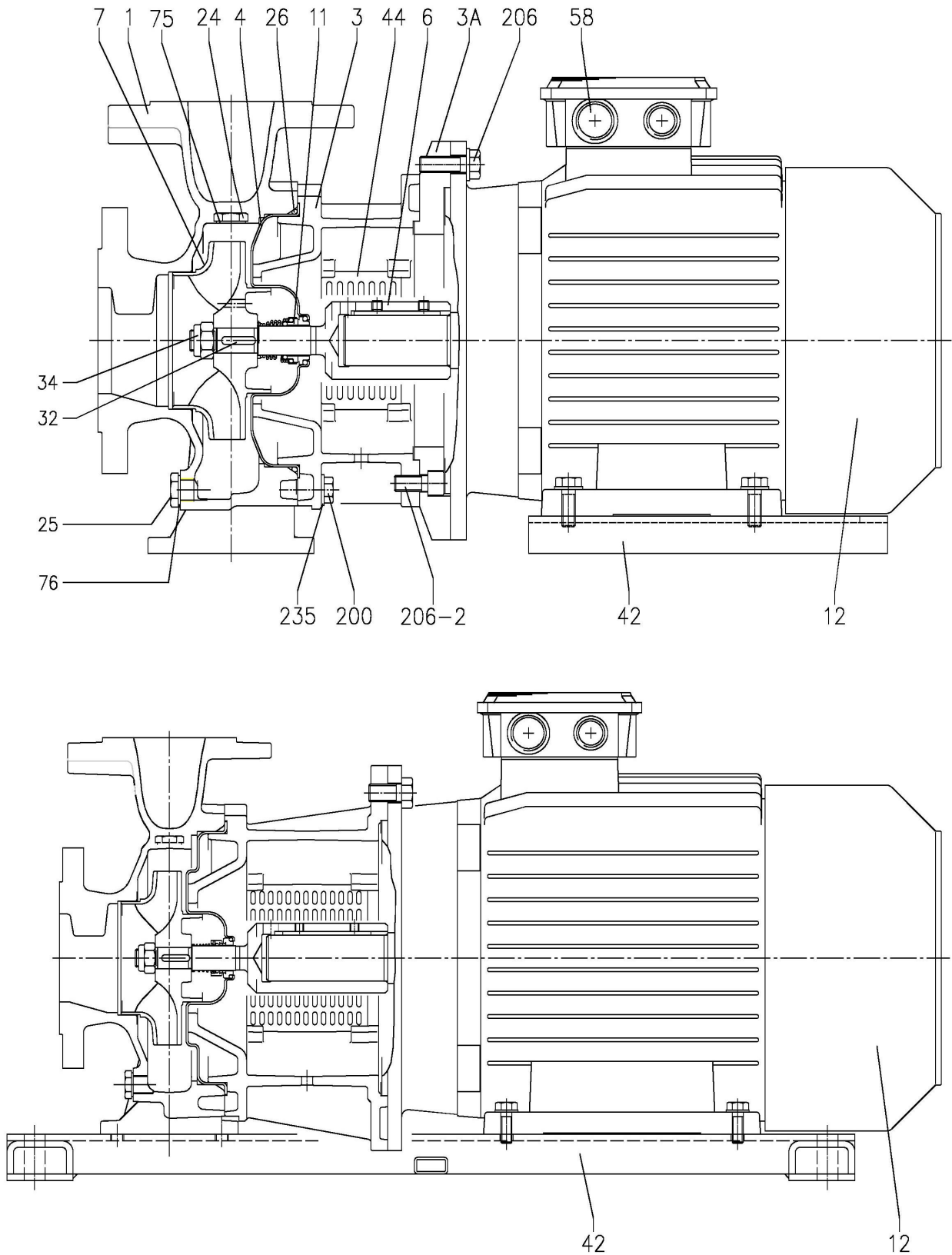
Dimensions in		mm						
1	A	312	N2	320				
2	B	885	R	100				
3	Dia D1	200	S1	22				
4	Dia D2	185	S2	20				
5	Dia DN1	80	T	65				
6	Dia DN2	65	V1	M40x1,5				
7	Dia K1	160	V2	M40x1,5				
8	Dia K2	145	Weight P&M	197 kg				
9	Dia P1	138						
10	Dia P2	122						
11	H	405						
12	H1	180						
13	H2	225						
14	H3	268						
15	N1	250						

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# Construction

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**(2/3)****Construction****Pump Name 3DS 65-200/22**

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	Cast iron EN-GJL-200-EN 1561			1
3	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
3A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4301 (AISI 304)			1
6	Coupling - Wet extensions	EN 1.4301 (AISI 304)			1
7	Impeller	EN 1.4401 (AISI 316)			1
11	Mechanical seal [2]	-			1
12	Motor	-			1
24	Priming plug	Brass	G 3/8" L=8		1
25	Draining plug	Brass	G 3/8" L=8		1
26	O-ring <u>65-125</u> <u>65-160, 65-200</u> [3]	NBR/FPM/EPDM	183.52x5.34	OR 6720	1
32	Key <u>Up to 11 kW</u> <u>15 kW and above</u>	EN 1.4401 (AISI 316)	6x6x25 8x7x30	UNI 6604	1
34	Impeller nut <u>Up to 11 kW</u> <u>15 kW and above</u>	EN 1.4301 (AISI 304)	M16x1.5 M20x1.5	UNI 7474	1
42	Foot	Galvanized Steel			[4]
44	Protection	EN 1.4301 (AISI 304)		EBARA DRAWING	1
58	Cable gland	-			
72	Casing ring	EN 1.4301 (AISI 304)			1
75	Washer	Aluminum	22x17x1.5	EBARA DRAWING	1
76	Washer	Aluminum			1
200	Screw <u>65-125</u> <u>65-160, 65-200</u>	Gv. Steel 8.8 strenght class ISO 898-1	M10x35	UNI 5739	10 12
201	Screw	Gv. Steel 8.8 strenght class ISO 898-1	M10x16	UNI 5739	2
206	Screw for bracket	Gv. Steel 8.8 strenght class ISO 898-1	M10x40	UNI 5739	4
206-2	Screw adapter ring [1]	Gv. Steel 8.8 strenght class ISO 898-1	M12x20	UNI 5931	4
235	Washer <u>65-125</u> <u>65-160, 65-200</u>	Galvanized Steel	10.5x21	UNI 6592	10 12

[1] Only for 65-125/5.5 and 65-125/7.5

[2] See **CONSTRUCTION 3**

[3] See **CONSTRUCTION 3**, "O-ring" column

[4] 0 for version 65-200/22

1 for version for 65-125/5.5, 65-125/7.5, 65-160/11, 65-160/15, 65-200/15, 65-200/18.5

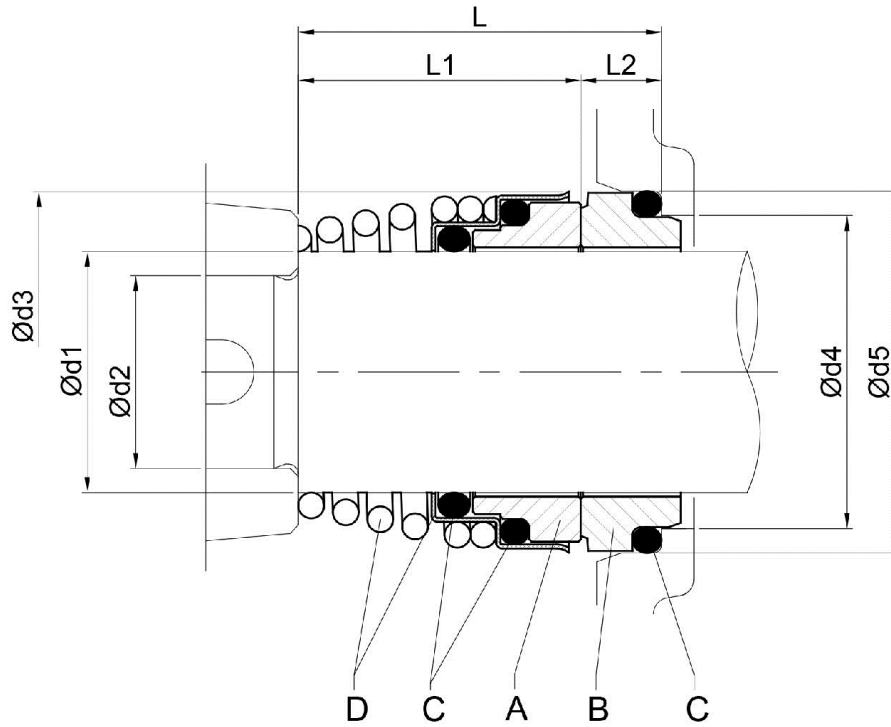
2 for version for 65-125/4, 65-160/7.5, 65-160/9.2

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Pump type	Dimensions [ mm ]								Material Standard			
	d1	d2	d3	d4	d5	L	L1	L2	A Rotary seal ring	B Stationary seal ring	C O-ring	D Frame + Spring
65-160/15 65-200	30	24	46	39	45	42.5	32.5	10	Ceramic	Carbon	NBR	EN 1.4401 (AISI 316)