

Technical Data

Pump Name

3DS 65-160/156

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	3DS 65-160/156	Frequency Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 157
12	Speed rpm	3480		Designed mm 157
13	No. of Stage	1		Min. mm 157
14	Connection Suction side	UNI 2236-67	Flow	Operating m³/h
15	Connection Discharge side	EN 1092-2		Max- m³/h 132
16	Max Working Pressure bar	10		Min- m³/h 42
17	Shut-off head bar	4.75	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 30.5
19	Shaft power kW			- (Qmin.) m 48.0
20			Max. Shaft Power at max. impeller kW	14.79
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 65-160/156_460_Three Phase	Phases	3~
30	Specific design	IE2 / 60 Hz / Pole pairs 1	Frame size	160 M
31	Rated power kW	15	Weight kg	
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3500	Electric current A	23.3
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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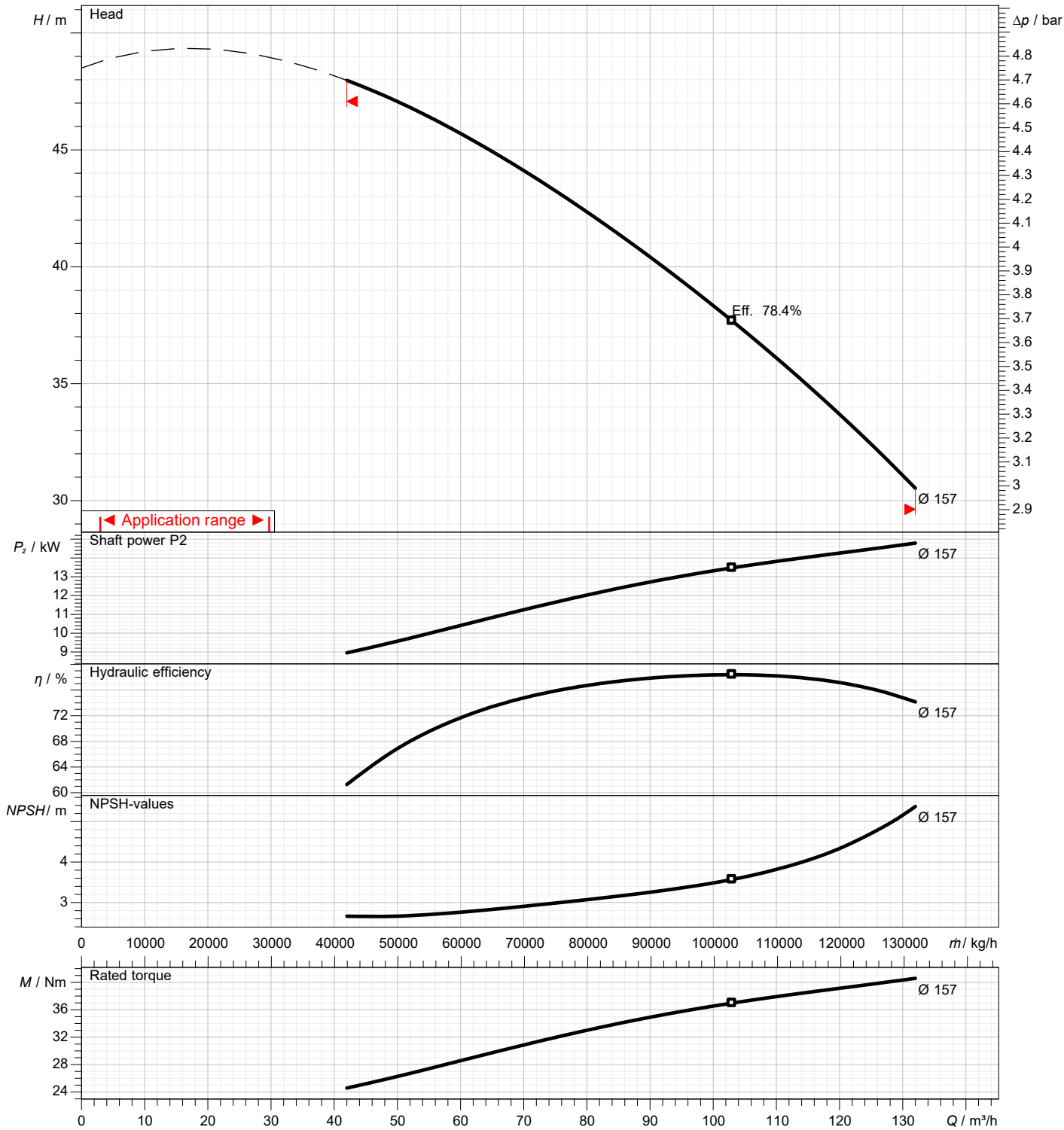
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	157	Speed	rpm	3480

Test standard: ISO 9906:2012 - Grade3B

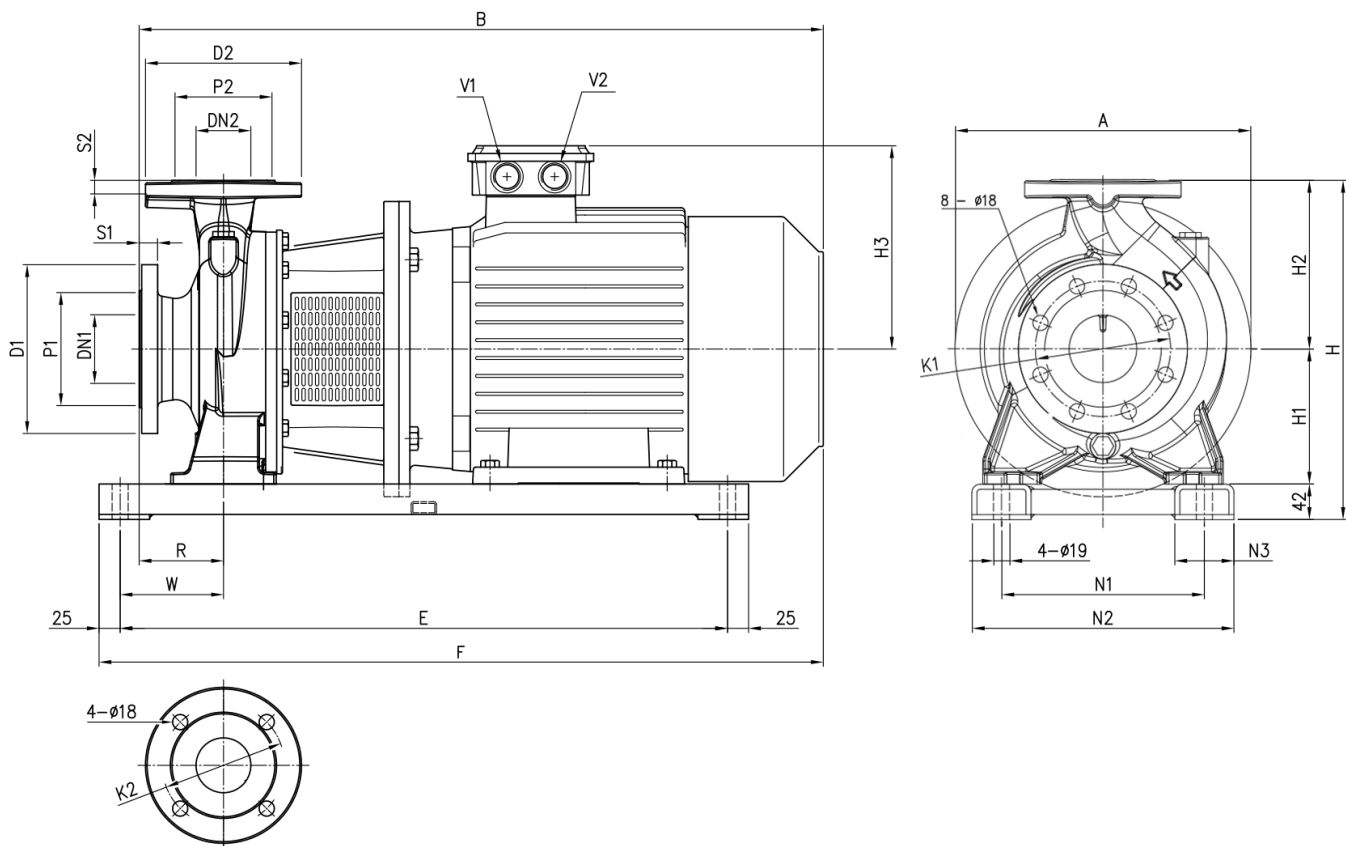
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	A	350	H3	238			
2	B	806	N1	240			
3	Dia D1	200	N2	310			
4	Dia D2	185	N3	70			
5	Dia DN1	80	R	100			
6	Dia DN2	65	S1	22			
7	Dia K1	160	S2	20			
8	Dia K2	145	V1	M40x1.5			
9	Dia P1	138	V2	M40x1.5			
10	Dia P2	122	W	122.5			
11	E	720	Weight P&M	117,6 kg			
12	F	854					
13	H	402					
14	H1	160					
15	H2	200					

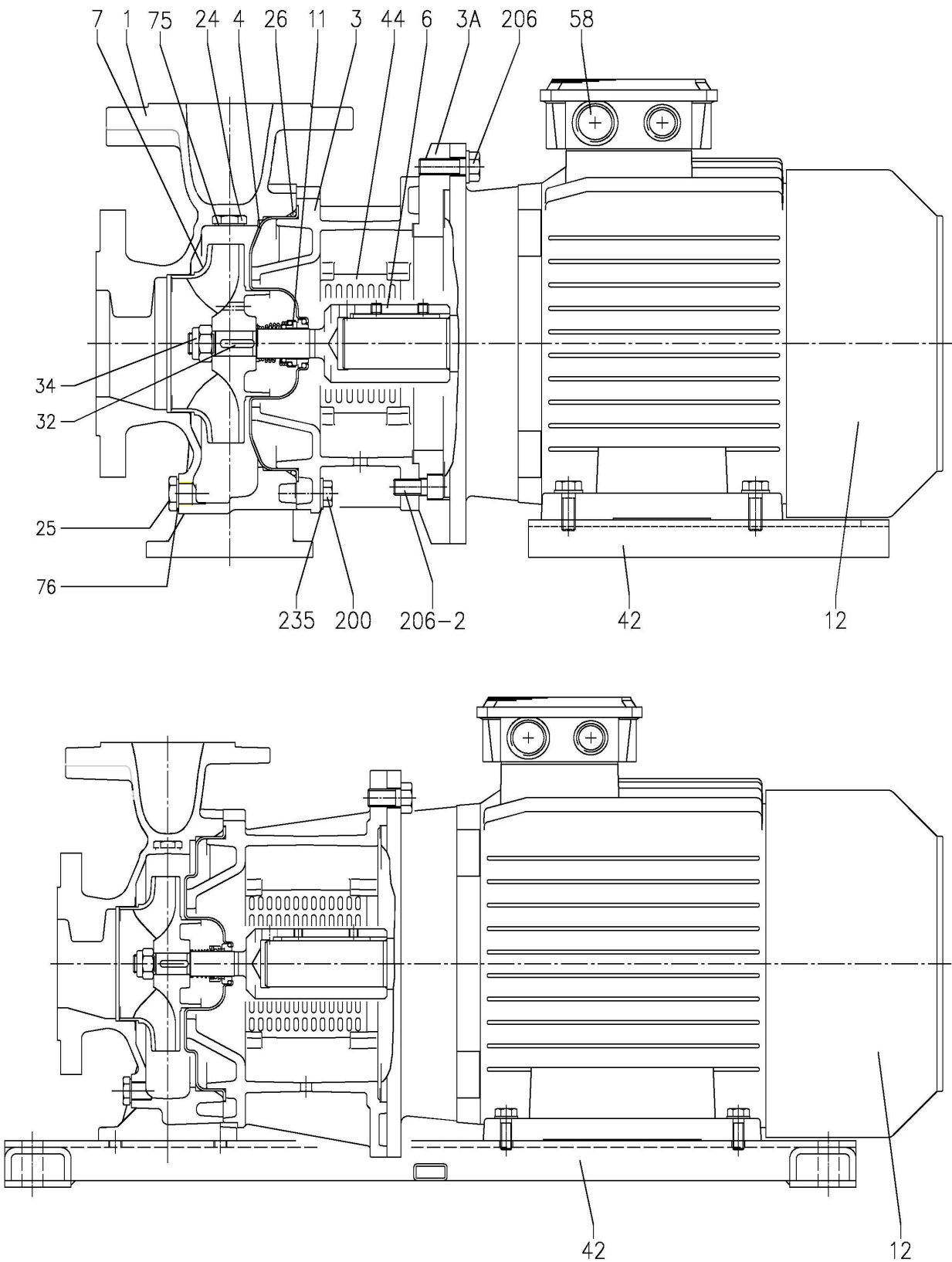
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Construction

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Construction

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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	Draing plug	Brass	G 3/8" L=8		1
26	O-ring 65-125 65-160, 65-200 [3]	NBR/FPM/EPDM	183.52x5.34 227.96x5.34	OR 6720 OR 6895	1
32	Key Up to 11 Kw 15 kW and above	EN 1.4401 (AISI 316)	6x6x25 8x7x30	UNI 6604	1
34	Impeller nut Up to 11kW 15 kW and above	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 65-125 65-160, 65-200	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 65-125 65-160, 65-200	Galvanized Steel	10.5x21	UNI 6592	10 12

[1] Only for 65-125/5.56 and 65-125/7.56

[2] See **CONSTRUCTION 3**

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

[4] 0 for version 65-200/226

1 for version for 32, 40, 50, 65-125/5.56, 65-125/7.56, 65-160/116, 65-160/156, 65-200/156, 65-200/18.56

2 for version for 65-125/4.06, 65-160/7.56, 65-160/9.26

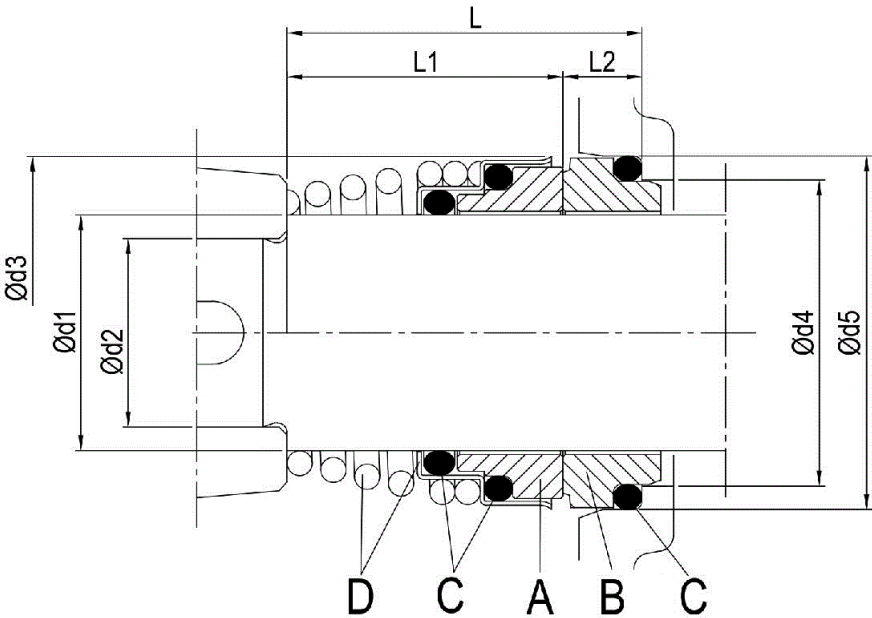
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Pump type	Dimensions [mm]								Material			
	d1	d2	d3	d4	d5	L	L1	L2	A Rotary seal ring	Standard B Stationary seal ring	C O-ring	D Frame + Spring
65-160/156 65-200	30	24	46	39	45	42.5	32.5	10	Ceramic	Carbon	NBR	EN 1.4401 (AISI 316)