

Technical Data

Pump Name

3LPF 40-160/R

Customer	Date 10.06.2024	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	3LPF 40-160/R	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 151
12	Speed rpm	2900		Designed mm 151
13	No. of Stage	1		Min. mm 151
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 42
16	Max Working Pressure kPa	1000		Min- m³/h 12
17	Shut-off head kPa	303.31	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 17.0
19	Shaft power kW			- (Qmin.) m 29.5
20			Max. Shaft Power at max. impeller kW	2.83
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	without motor	Insulation class	
29	Type	without motor 3	Phases	
30	Specific design	without motor / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW		Weight kg	
32	Number of poles	2	Electric voltage V	
33	Speed rpm		Electric current A	
34	Degree of protection			
35				

Remarks

Performance Curve

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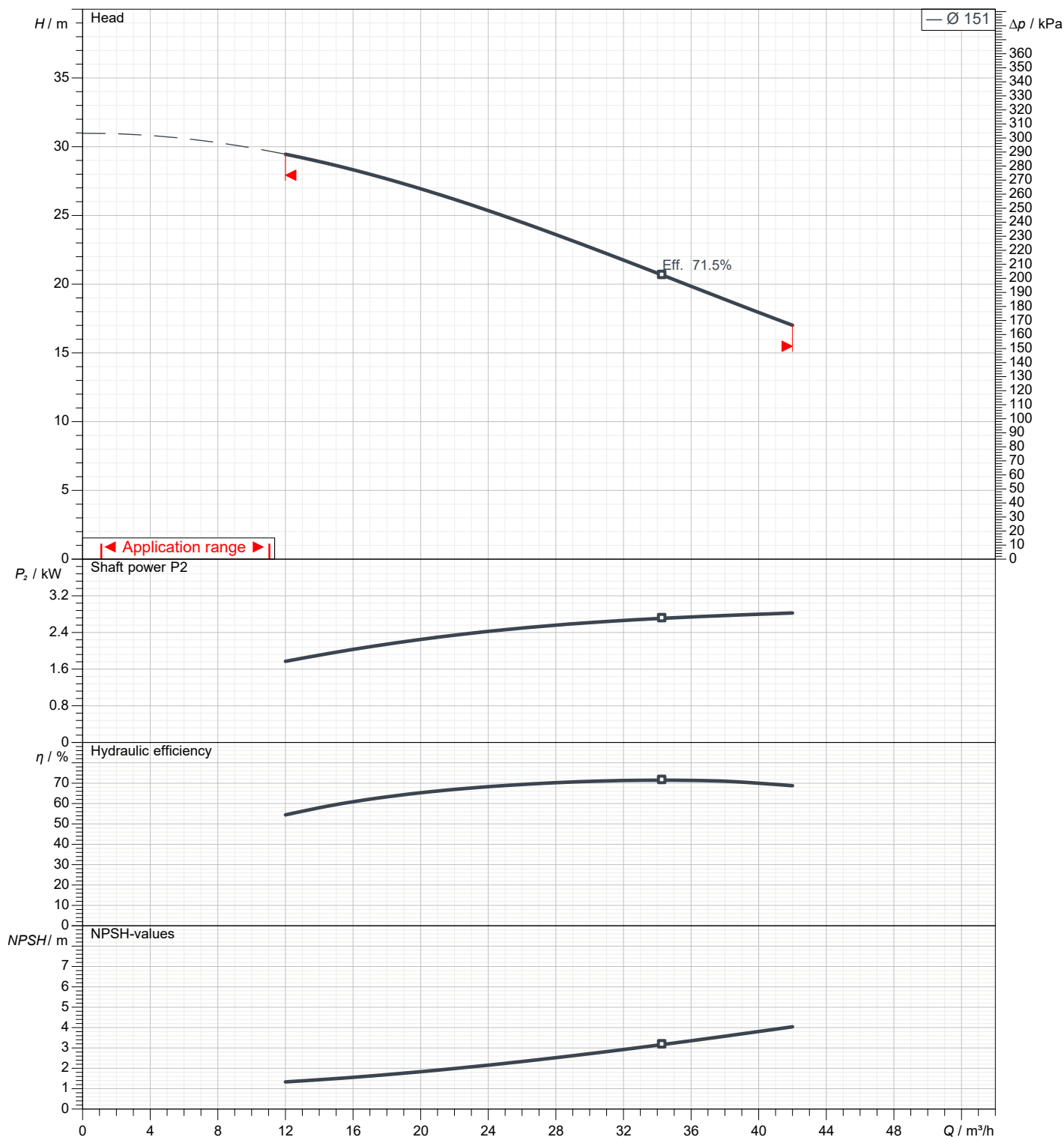
Requested data

1	Flow	m³/h		Operating flow	m³/h		Frequency	Hz	50
2	Head	m		Operating head	m		Number of poles		2
3	Geodetic head	m		Impeller diameter designed	mm	151	Speed	rpm	2900

Pump

Test standard: ISO 9906:2012 - Grade3B

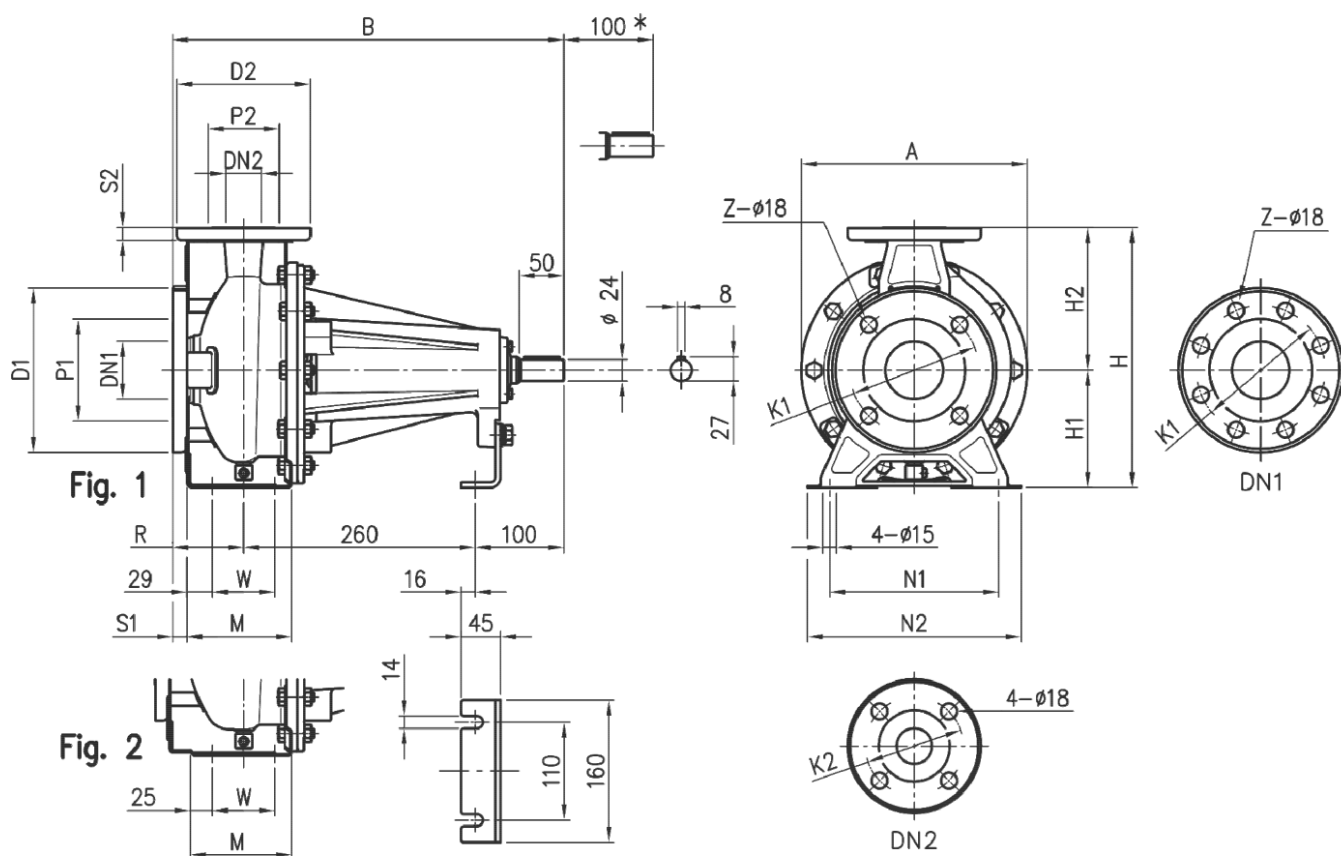
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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* Space for disassembly

Dimensions in		mm						
1	A	254	N1	190				
2	B	440	N2	240				
3	Dia D1	185	R	80				
4	Dia D2	150	S1	16				
5	Dia DN1	65	S2	14				
6	Dia DN2	40	W	70				
7	Dia K1	145	Weight PUMP	19 kg				
8	Dia K2	110	Z	4				
9	Dia P1	115						
10	Dia P2	80						
11	Fig	1						
12	H	292						
13	H1	132						
14	H2	160						
15	M	118						

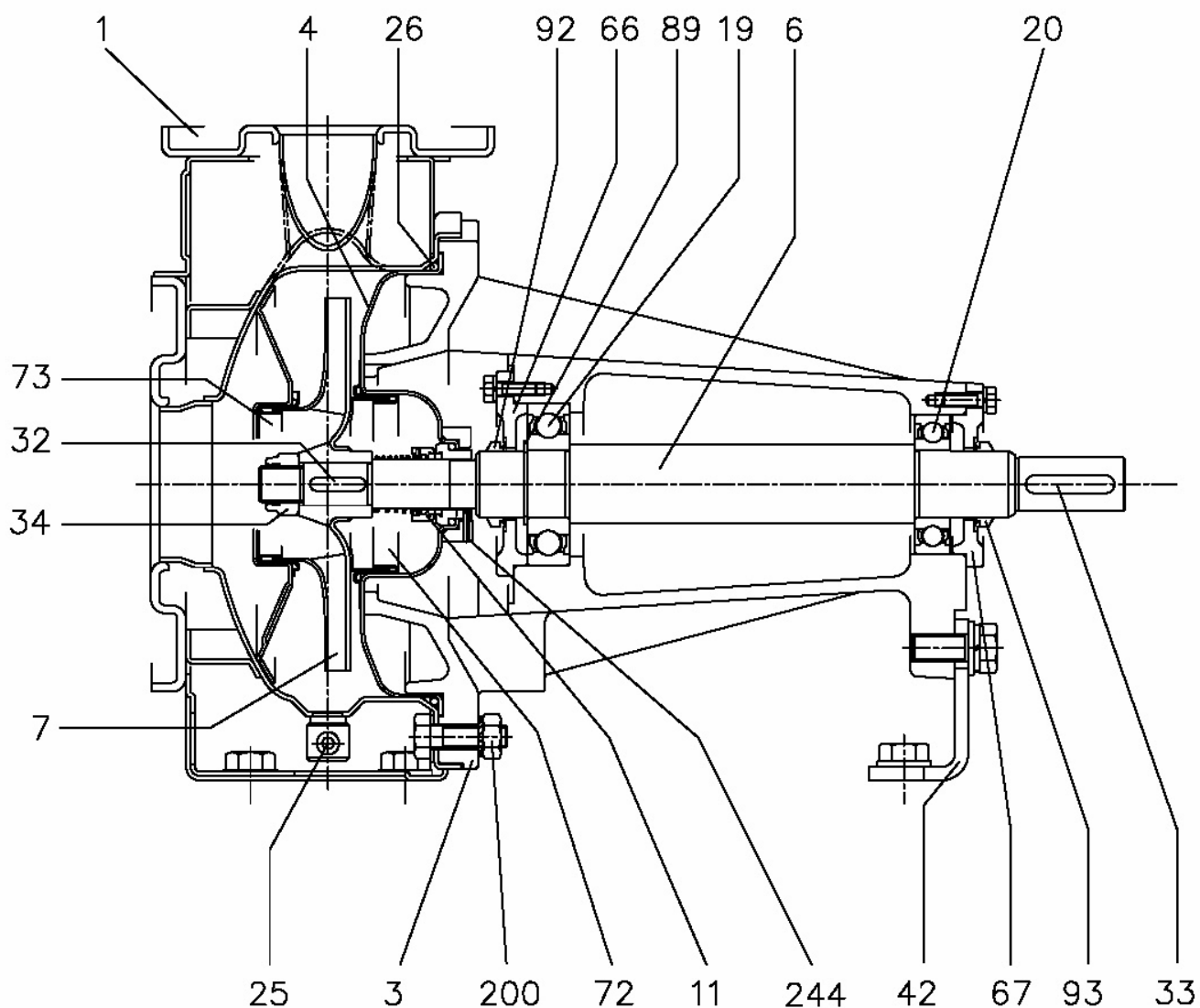
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Construction

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N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD	Q.TY	
		3P	3LP				
1	Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
3	Support	Cast Iron EN-G JL-200-EN 1561				1	
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
6	Shaft - Part in contact with liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
7	Impeller	32,40,50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		1	
		65-125/160/200	EN 1.440 1 (AISI 316)				
11	Mechanical seal [4]	Carbon/Ceramic/NBR	SiC/SiC/FPM			1	
19	Bearing	-				1	
20	Bearing	-				1	
25	Draing plug	EN 1.4401 (AI SI 316) / PTFE		R 1/8" L=8	DIN 906	1	
26	O ring	32-125, 40-125	NBR [5]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200, 50-160 , 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
32	Key	Up to 11 Kw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	6 x6x 25	UNI 6604	1
		15 kW and above			8 x7x 30		
33	Key	C 40		8x7x40	UNI 6604	1	
34	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/15			M18x1.5		
		15 kW and above			M20x1.5		
42	Pump support	Fe 37 ZI nc-coated			EBARA DRAWING	1	
66	Impeller side bearing cover	Cast Iron EN-G JL-200-EN 1561				1	
67	Motor side bearing cover	Cast Iron EN-G JL-200-EN 1561				1	
72	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
73	Casing ring (not for 65 version)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
89	Snap ring	Carbon tool steels TC 80		Ø 40	UNI 7435	1	
92	O ring	-		VS - 0030		1	
93	O ring	-		VS - 0030		1	
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/ 1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[2]
244	Pin [3]	-	EN 1.4301 (AISI 304)	4x15		1	

[1] For version 32-200, 40-200, 50-160, 50-200

[2] Q.TY=10 for 32-160, 40-160, 50-125, 65-125

Q.TY=12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[3] Only for 65-160/15 and 65-200

[4] Special version: see CONSTRUCTION 3

[5] FPM for H-HS-HW-HSW version

EPDM for E version, Q1AEGG, Q1U3EGG, U3CEGG, Q1Q1EGG, U3U3EGG

U3CU3EGG not available for models 65-160/15 and 65-200

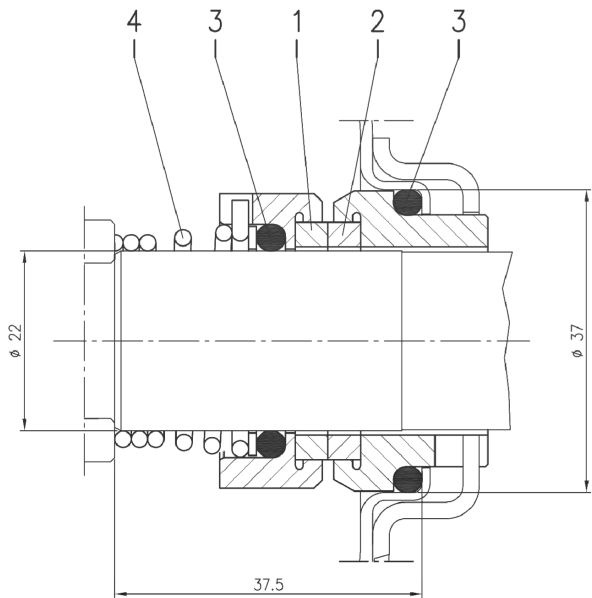
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Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ø22	32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)