

Technical Data

Pump Name

3LS 40-125/2.2

Customer	Date 2026-07-21	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 l/s		Kin. viscosity mm²/s	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	3LS 40-125/2.2	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max mm 140
12	Speed 1/min	2900		Designed mm 140
13	No. of Stage	1		Min. mm 140
14	Connection Suction side	DIN 2532	Flow	Operating l/s
15	Connection Discharge side	DIN 2532		Max- l/s 11.7
16	Max Working Pressure kPa	1000		Min- l/s 3.33
17	Shut-off head kPa	259.52	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 13.0
19	Shaft power kW			- (Qmin.) m 25.5
20			Max. Shaft Power at max. impeller kW	2.15
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	LAFERT	Insulation class	F
29	Type	TEFC_3S40-125/2.2_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	90 L
31	Rated power kW	2.2	Weight kg	16
32	Number of poles	2	Electric voltage V	230
33	Speed 1/min	2900	Electric current A	8
34	Degree of protection			
35				

Remarks

Performance Curve

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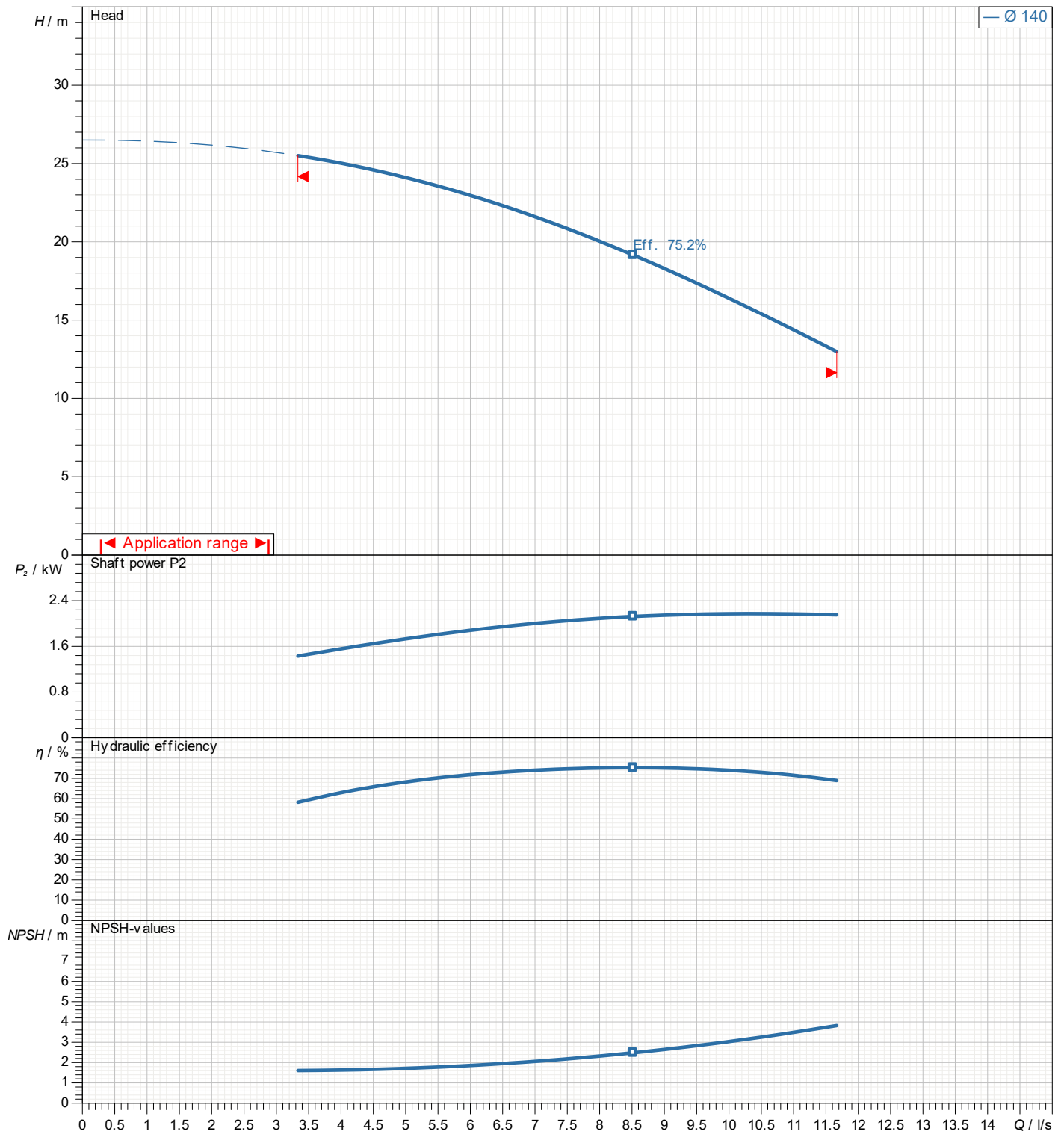
Requested data

1	Flow	l/s		Operating flow	l/s		Frequency	Hz	50
2	Head	m		Operating head	m		Number of poles		2
3	Geodetic head	m		Impeller diameter designed	mm	140	Speed	1/min	2900

Pump

Test standard: ISO 9906:2012 - Grade3B

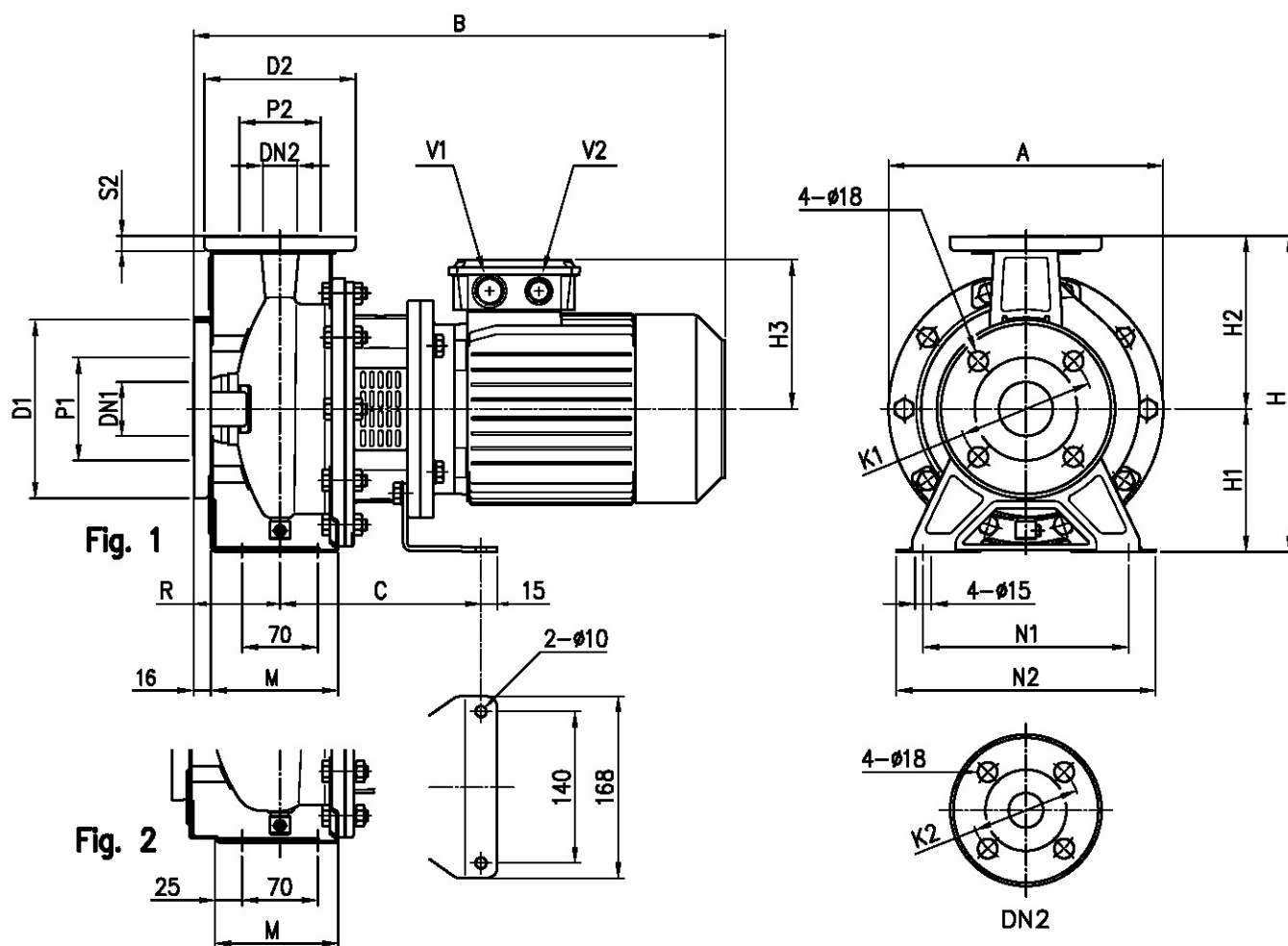
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in		mm						
1	A	213	M	114				
2	B	477	N1	160				
3	C	186	N2	210				
4	Dia D1	185	R	80				
5	Dia D2	150	S2	14				
6	Dia DN1	65	V1	[M25x1].5				
7	Dia DN2	40	V2	[M20x1].5				
8	Dia K1	145	Weight P&M	29,6 kg				
9	Dia K2	110						
10	Dia P1	115						
11	Dia P2	80						
12	H	252						
13	H1	112						
14	H2	140						
15	H3	148						

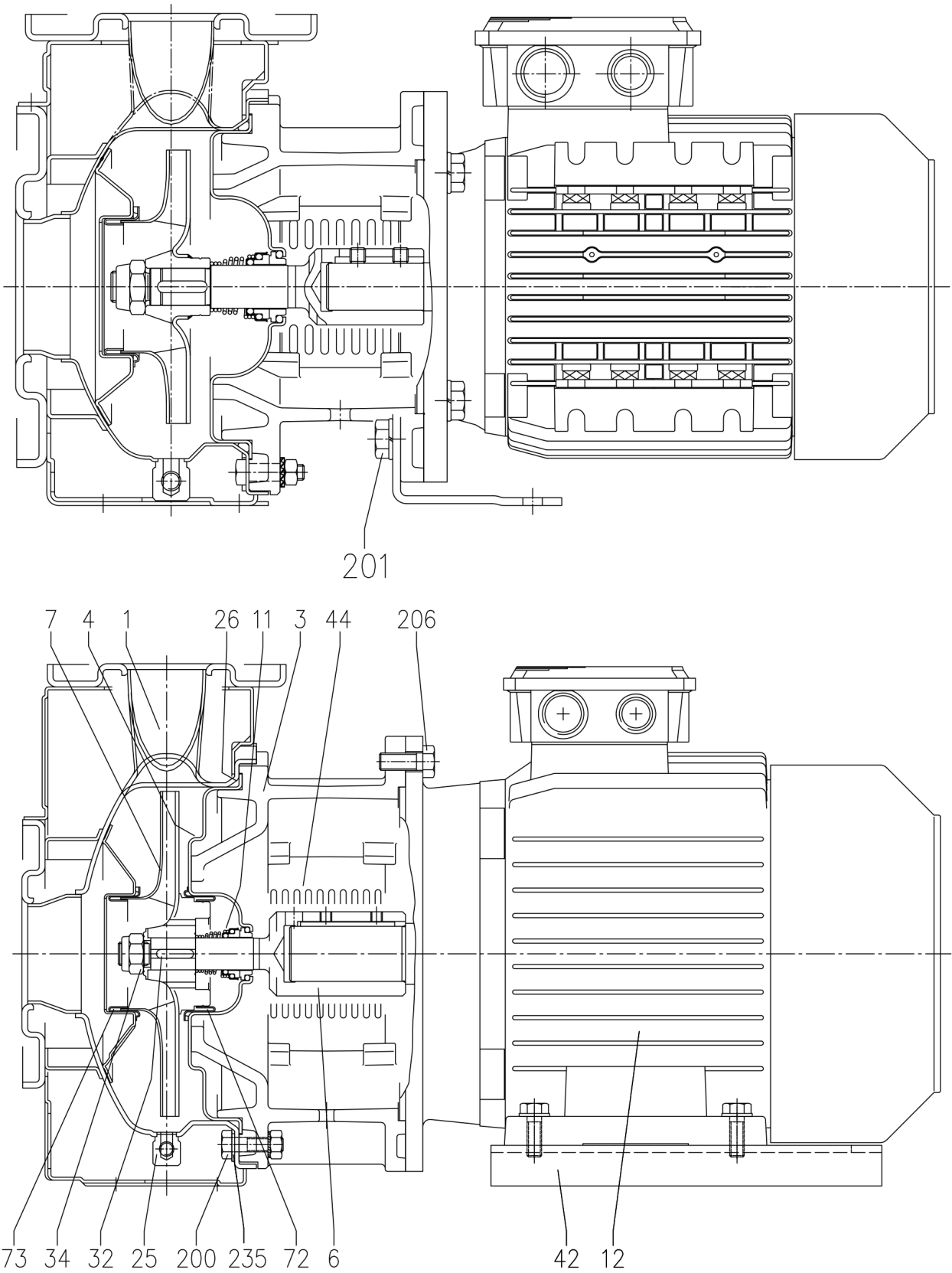
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Construction

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Construction

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N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
3 A	Adapter ring [1]		Cast iron EN-GJL-200-EN 1561				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Coupling - 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) [9]			1
11	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM	[7]		1
12	Motor		-				1
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 [8]	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 1.4401 (AISI 316)		6x6x25	UNI 6604	1
		15 kW and above			8x7x30		
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	Foot		Aluminium / Galvanized steel				[2]
44	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	1
72	Casing ring [3]		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
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[4]
201	Screw		Galvanized Steel 8.8 strenght class ISO 898/1		M 10x16	UNI 5739	[5]
206	Screw for bracket		Galvanized Steel 8.8 strenght class ISO 898/1		M 10x40	UNI 5739	4
206-2	Screw adapter ring [1]		Galvanized Steel 8.8 strenght class ISO 898/1			UNI 5931	4
235	Washer	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8.4x17	UNI 6592	8
		50-200, 65-125, 65-160, 65-200			M 10.5x21	UNI 6592	[4]
244	Pin	[6]	-	EN 1.4301 (AISI 304)		UNI 5931	4

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

[2] Quantity =0 for version 65-200/22

Quantity =1 for version for 32, 40, 50, 65-125/5.5, 65-125/7.5, 65-160/11, 65-160/15, 65-200/15, 65-200/18.5

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

[3] Only for version 32-200, 40-200, 50-160, 50-200

[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125

Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[5] Only for version 32-125/1.1, 32-160/1.5, 32-160/1.5, 32-160/2.2, 40-125/1.5, 40-125/2.2, 50-125/2.2

[6] Only for 65-160/15, 65-200

[7] Special version: see CONSTRUCTION 3

[8] PM for H-HS-HW-HSW version

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

U3U3EGG not available for 65-150/15 and 65-200

[9] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200

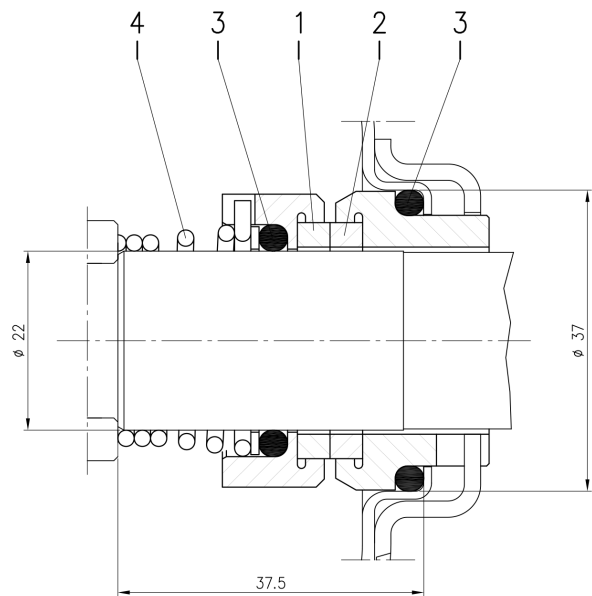
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Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ø22	32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)