Technical data

Pump name 3LSF 65-160/11

Customer	Date 19-May-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid		Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K	293
3	Flow l/min	0	Kin. viscosity	mm²/s	1
4	Head m	0	Vapour pressure	kPa	2.2
5	Geodetic head m	0	PH value		7
6	Inlet pressure (pin) kPa	10	Density	kg/m³	1000
7	Available system NPSH	0	Solids	Weight %	0
8	Ambient temperature K	290			

Pump

9	Pump name	3LSF 65-160/11	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	168
12	Speed 1/min	2900		Designed	mm	168
13	No. of Stage	1		Min.	mm	168
14	Connection Suction side	DIN 2532	Flow	Operating	l/min	
15	Connection Discharge side	DIN 2532		Max-	l/min	2300
16	Max Working Pressure kPa	1000		Min-	l/min	700
17	Shut-off head kPa	396.29	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	20.1
19	Shaft power kW			- (Qmin.)	m	38.5
20			Max. Shaft Power at max. impeller		kW	11.01
21	Required pump NPSH m		Efficiency		%	

Materials

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

Motor

28	Manufacturer	without motor	Insulation class		
29	Type	without motor 3	Phases		3~
30	Specific design	without motor / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	-	Weight	kg	0
32	Number of poles	2	Electric voltage	V	0
33	Speed 1/min	-	Electric current	A	0
34	Degree of protection	--			
35					

Remarks

EBARA

Performance curve **Pump name** 3LSF 65-160/11

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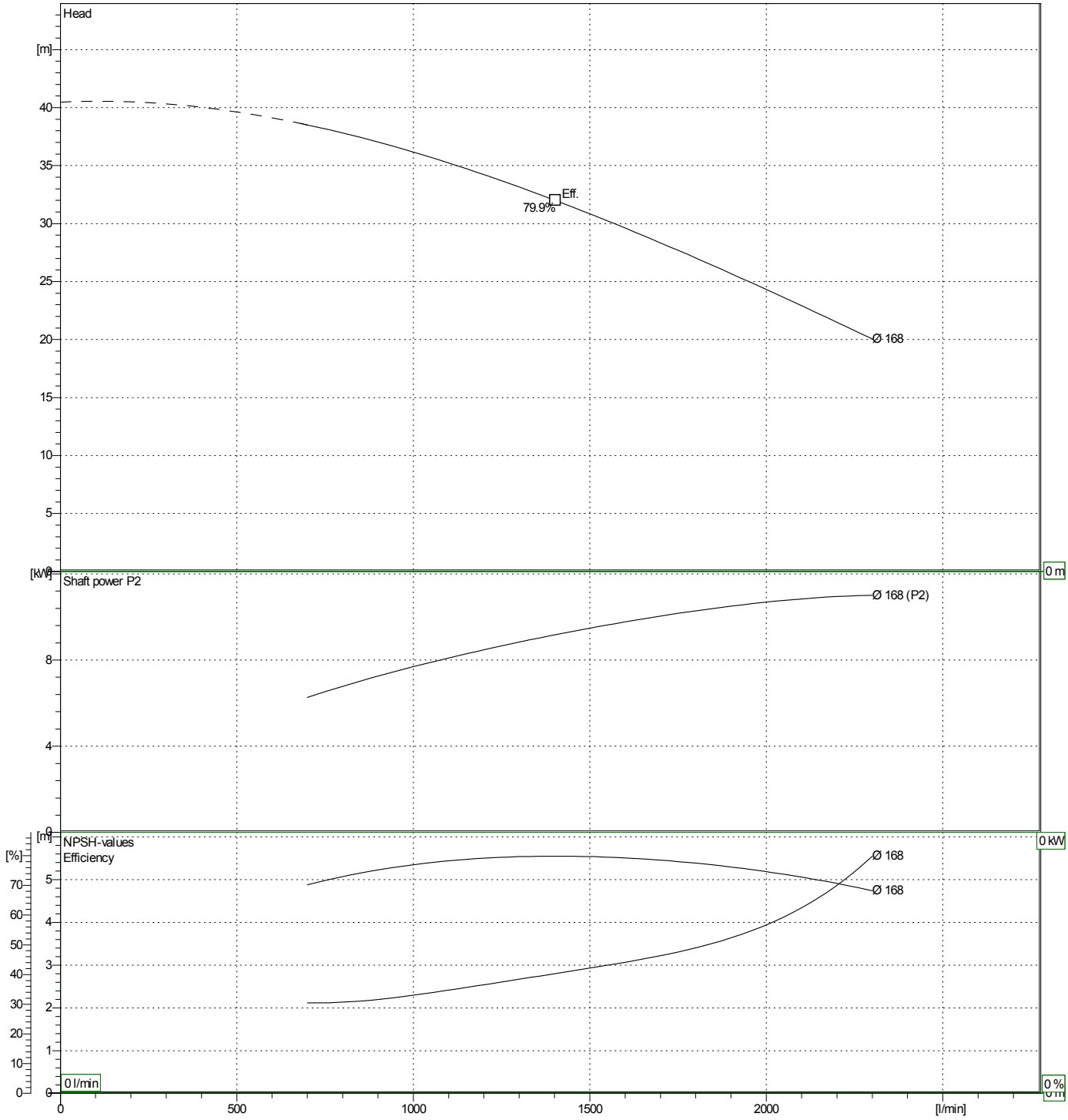
1	Flow	l/min	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	l/min		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	168	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s

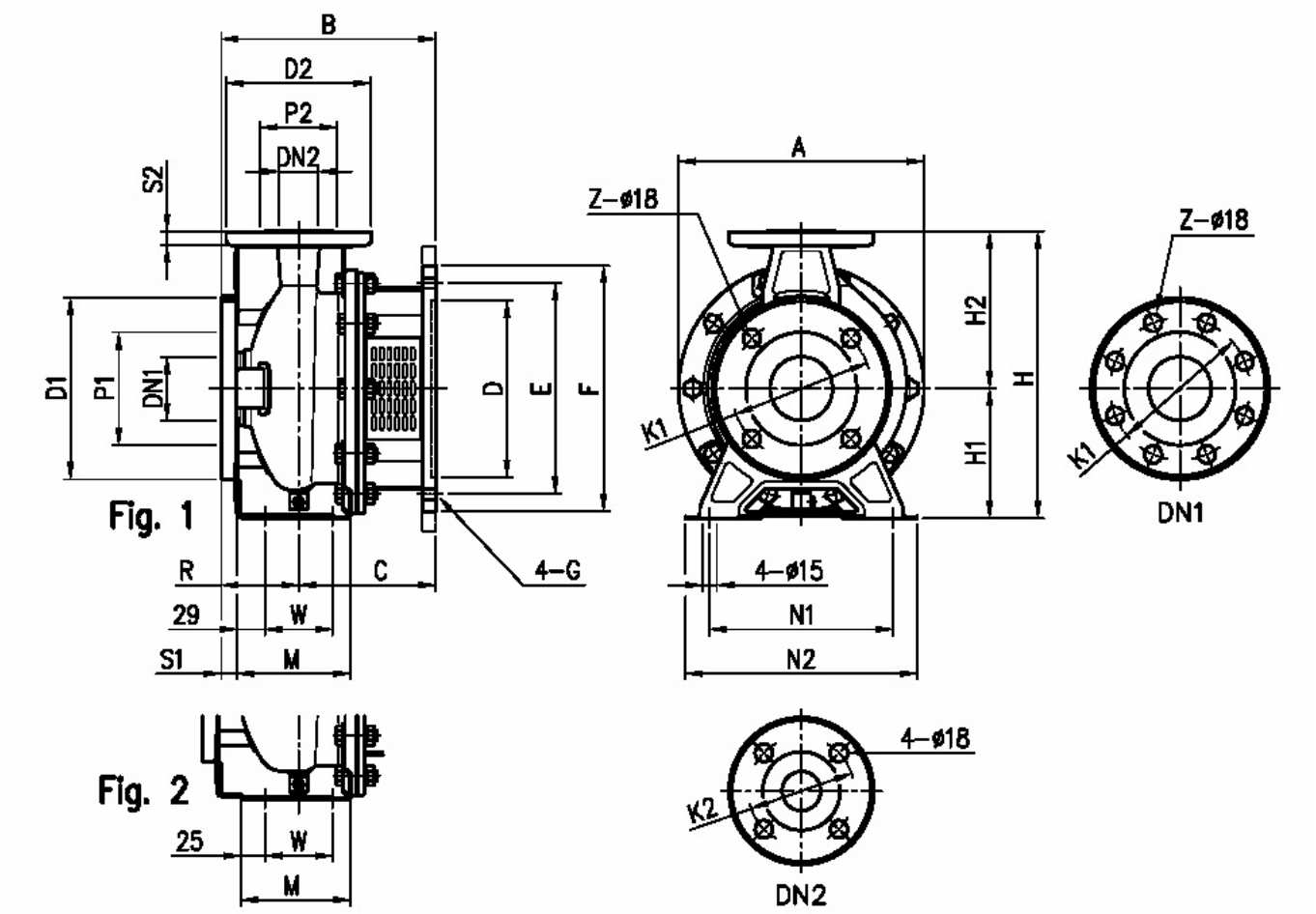


EBARA

Dimensions

Pump name 3LSF 65-160/11

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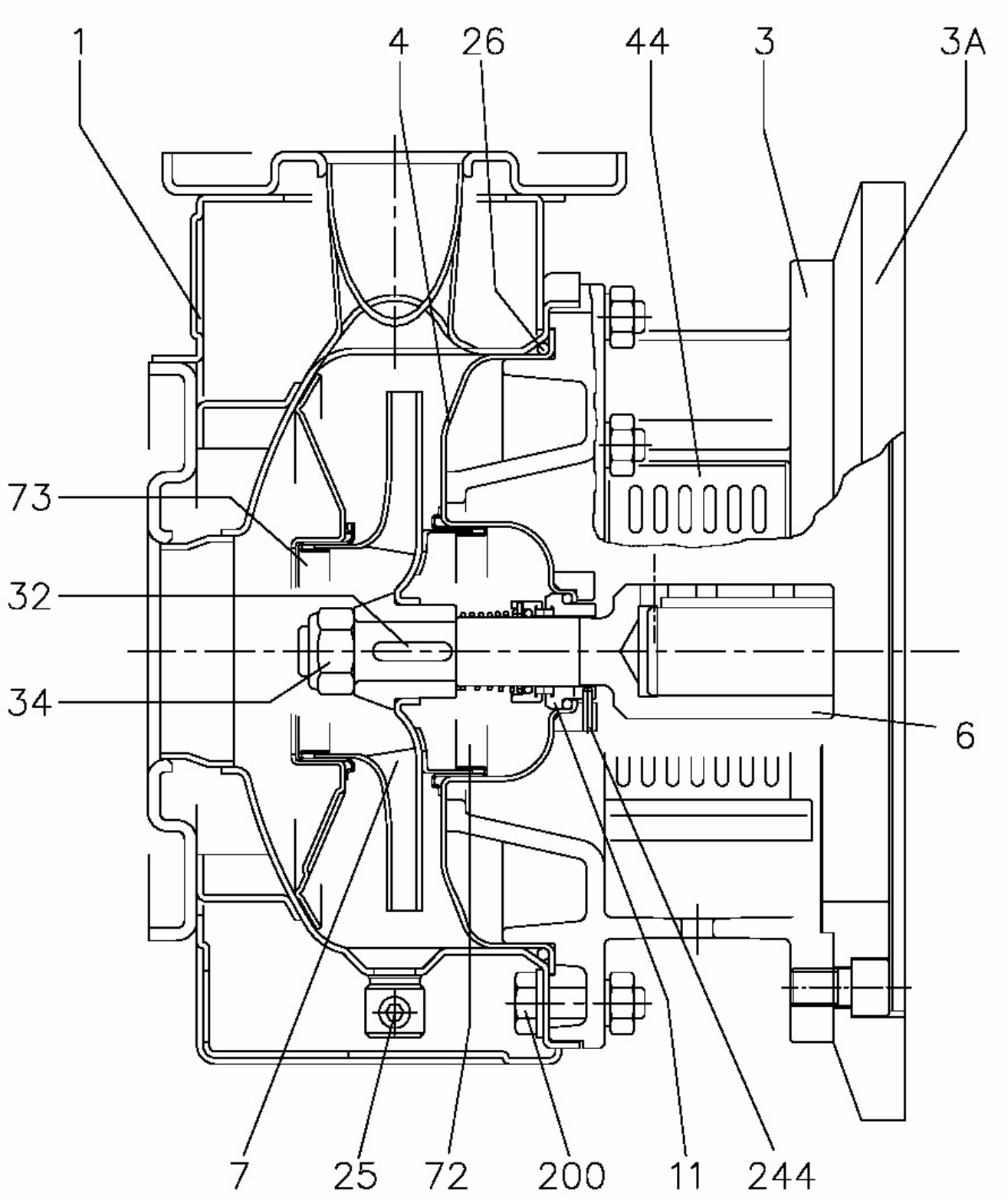
Dimensions in mm								
1	A	296	F	350	Weight PUMP	40 kg		
2	B	298	Fig	2	Z	8		
3	C	198	G	M16	Z option	4		
4	D	250	H	360				
5	Dia D1	200	H1	160				
6	Dia D2	185	H2	200				
7	Dia DN1	80	M	140				
8	Dia DN2	65	N1	212				
9	Dia K1	160	N2	280				
10	Dia K2	145	R	100				
11	Dia P1	134	S1	18				
12	Dia P2	115	S2	16				
13	E	300	W	95				

EBARA

(1/3)
Construction

Pump name 3LSF 65-160/11

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EBARA

(2/3)
Construction

Pump name 3LSF 65-160/11

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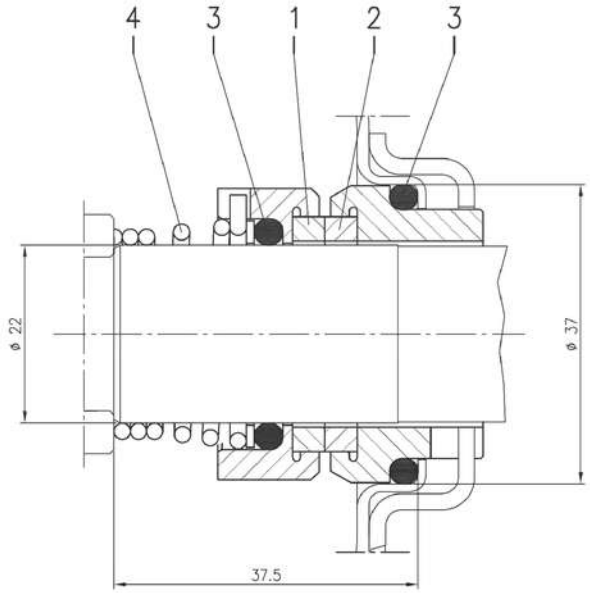
N°	PART NAME		MATERIAL 3SF	MATERIAL 3LSF	DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket		Cast iron EN-G JL-200-EN 1561				1
3A	Adapter ring [1]		Cast iron EN-G JL-200-EN 1561				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
7	Impeller	32,40,50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	EN 1.4401 (AISI 316)				
11	Mechanical seal [5]		Carbon/Ceramic/NBR	SiC/SiC/FPM			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 [6]	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)	6x6x25	UNI 6604	1
		15 kW and above			8 x7x 30		
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		
44	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	1
72	Casing ring [2]		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
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[3]
244	Pin [4]		/	EN 1.4301 (AISI 304)	4x15		1

[1] Only for 65-125/5.5 and 65-125/7.5
[2] For version 32-200, 40-200, 50-160, 50-200
[3] 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
[4] Only for 65-160/15 and 65-200
[5] FPM for H-HS-HW-HSW version
EPDM for E version, Q1AEGG, Q1U3EGG, U3CEGG, Q1Q1EGG
U3U3EGG not available for models 65-160/15 and 65-200

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Construction

Pump name 3LSF 65-160/11

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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)