

Technical Data

Pump Name

3LSF4 65-160/2.2

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
3	Flow	m³/h	Kin. viscosity	cSt
4	Head	m	Vapour pressure	kPa
5	Geodetic head	m	PH value	
6	Inlet pressure (pin)	kPa	Density	kg/m³
7	Available system NPSH		Solids	Weight %
8	Ambient temperature	°C		

Pump

9	Pump Name	3LSF4 65-160/2.2	Frequency	Hz	50	
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD	
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	
12	Speed	rpm		1400	Designed	mm
13	No. of Stage			1	Min.	mm
14	Connection	Suction side	Flow	Operating	m³/h	
15	Connection	Discharge side		Max-	m³/h	
16	Max Working Pressure	kPa		Min-	m³/h	
17	Shut-off head	kPa	Head	Operating	m	
18	Total weight	kg		- (Qmax.)	m	
19	Shaft power	kW		- (Qmin.)	m	
20			Max. Shaft Power at max. impeller	kW	1.73	
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	
30	Specific design	without motor / 50 Hz / Pole pairs 2	Frame size	
31	Rated power	kW	Weight	kg
32	Number of poles	4	Electric voltage	V
33	Speed	rpm	Electric current	A
34	Degree of protection			
35				

Remarks

Performance Curve

Pump Name

3LSF4 65-160/2.2

Customer	Date	10.06.2024	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID		E-mail

Requested data

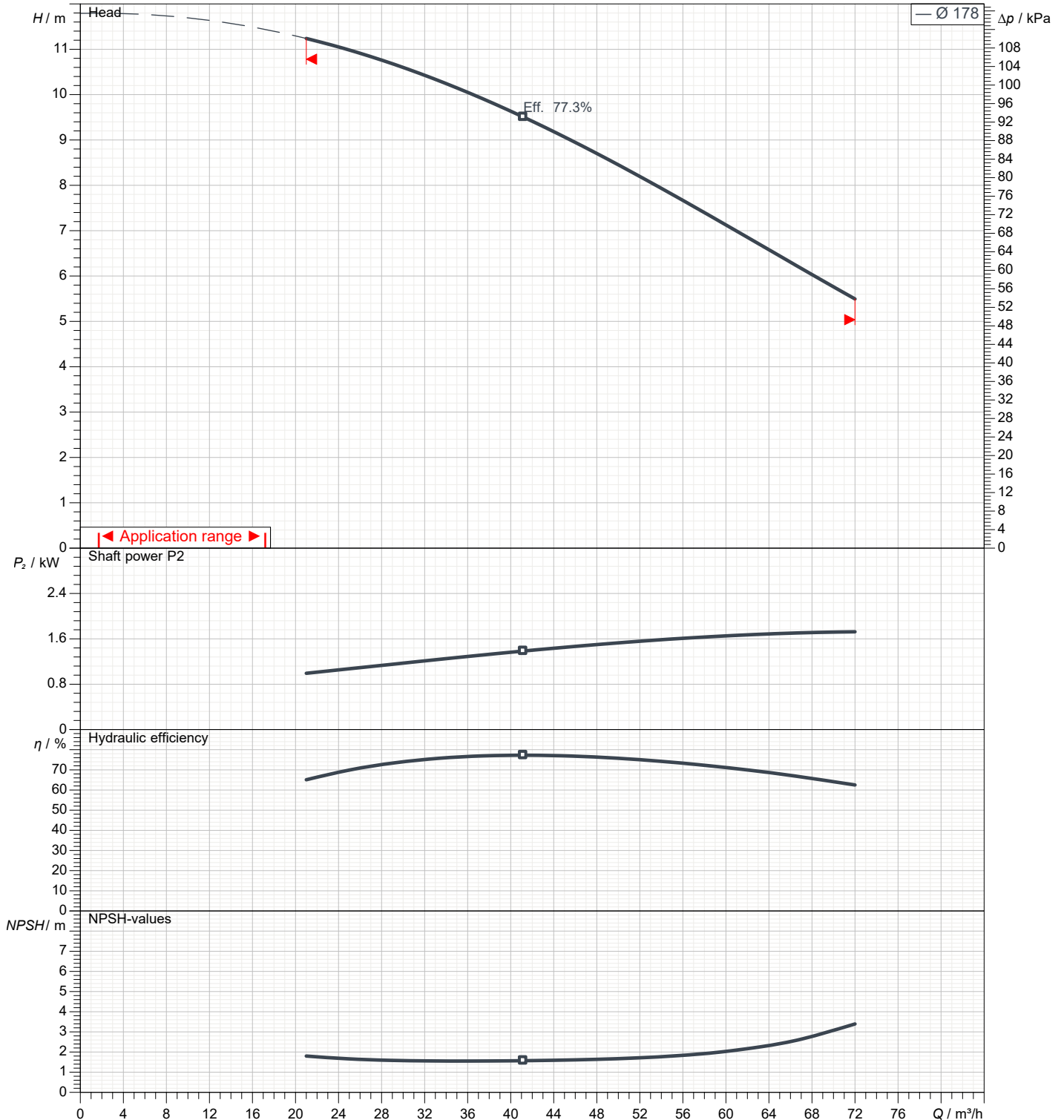
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	178	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

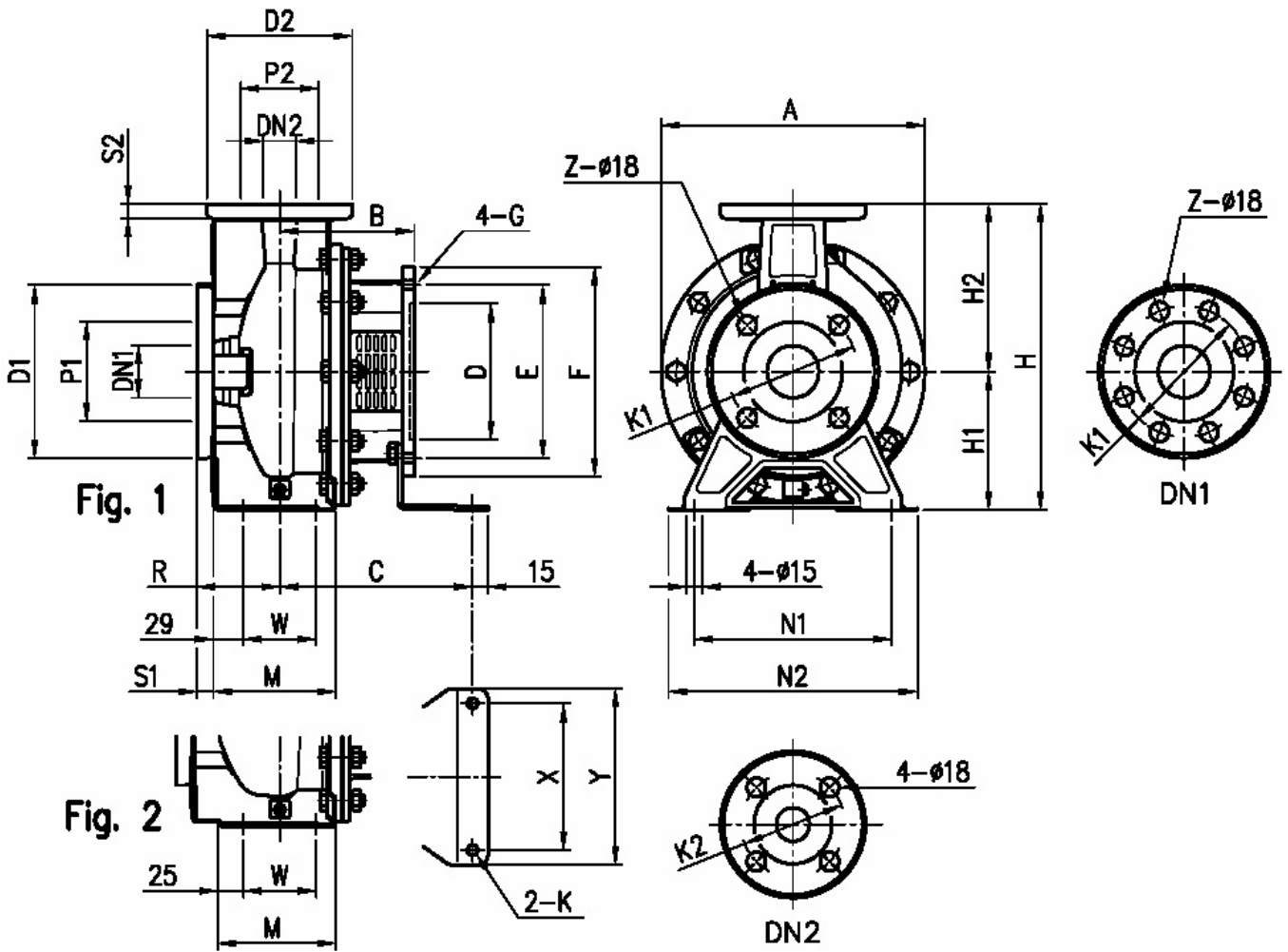
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

Pump Name 3LSF4 65-160/2.2

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



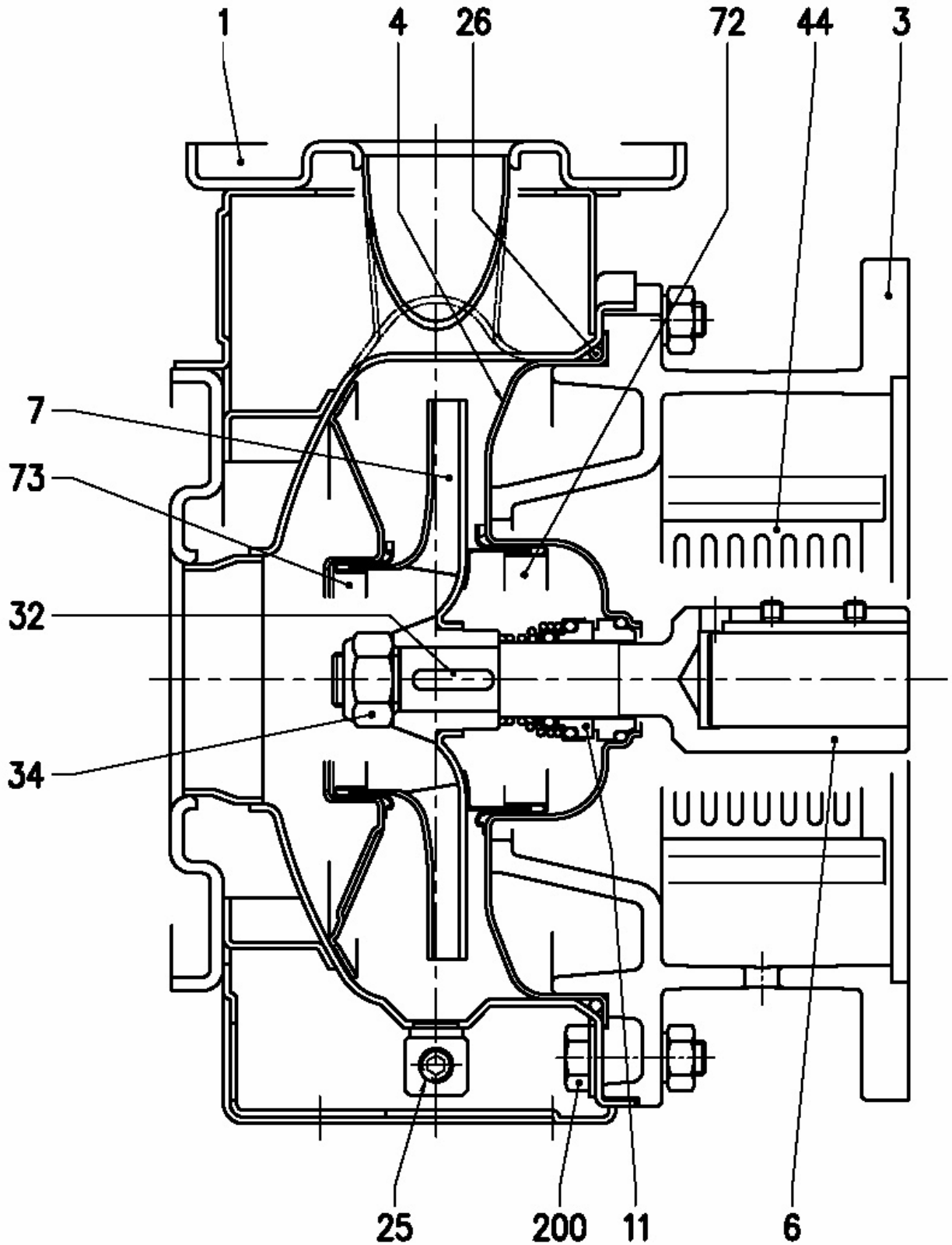
Dimensions in		mm						
1	Dia D1	200	W	95				
2	Dia D2	185	Weight PUMP	30 kg				
3	Dia DN1	80	Z	8				
4	Dia DN2	65						
5	Dia K1	160						
6	Dia K2	145						
7	Dia P1	134						
8	Dia P2	115						
9	H	360						
10	H1	160						
11	H2	200						
12	M	140						
13	N1	212						
14	N2	280						
15	S1	18						

(1/3)

Construction

Pump Name 3LSF4 65-160/2.2

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



(2/3)**Construction****Pump Name 3LSF4 65-160/2.2**

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD	Q.TY	
		3SF4	3LSF4				
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	
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 65-125/160/200	EN 1.4301 (AISI 304) EN 1.4404 (AISI 316L)			1	
11	Mechanical seal [3]	Carbon/Ceramic/NBR	SiC/SiC/FPM			1	
25	Draining plug	EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1	
26	"O" ring	32-125, 40-125 32-160, 40-160 , 50-125, 65-125 32-200, 40-200, 50-160, 50-200, 65-160, 65-200	NBR [4]	FPM [3]	158.11x5.34	OR 6625	1
					183.52x5.34	OR 6720	
					227.96x5.34	OR 6895	
32	Key	EN 1.440 1 (AISI 316)		6x6x25	UNI 6604	1	
34	Impeller nut	Other model 50-200/2.2	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
					M18x1.5		
44	Protection	EN 1.430 1 (AISI 304)			EBARA DRAWING	2	
72	Casing ring (not for 65 version) [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	
200	Screw	32-125, 40-125 40-160, 40-200 , 50-125, 50-160, 50-200, 65-125 , 65-160, 65-200	Stainless steel A2 70 class ISO 3506/1	M 8x30	UNI 5739	8	
				M 10x35	UNI 5739	[2]	

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

[2] N° for 1 unit=10 for 32-160, 40-160, 50-125, 65-125

N° for 1 unit=12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[3] Special version: see CONSTRUCTION 3

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

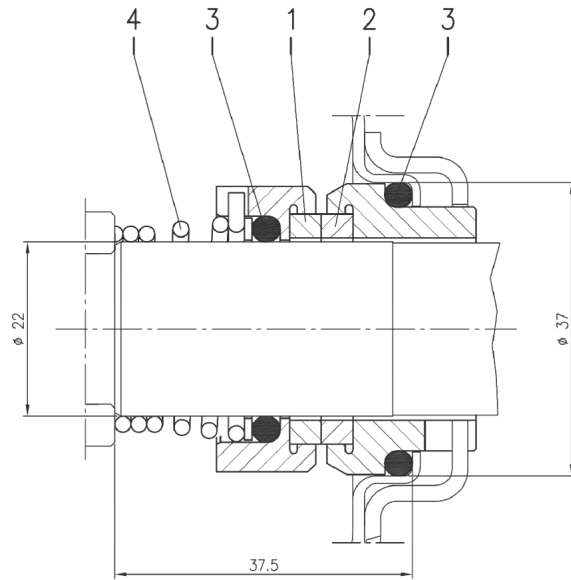
EPDM for E version , Q1AEGG, U3U3EGG, Q1Q1EGG, Q1U3EGG, U3CEGG

(3/3)

Construction

Pump Name 3LSF4 65-160/2.2

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L $\phi 22$	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)