

Technical Data

Pump Name

3LP 80-250/556

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	3LP 80-250/556	Frequency	Hz 60
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 218
12	Speed rpm	3520		Designed mm 218
13	No. of Stage	1		Min. mm 218
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 240
16	Max Working Pressure bar	10		Min- m³/h 84
17	Shut-off head bar	9.55	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 49.9
19	Shaft power kW			- (Qmin.) m 95.4
20			Max. Shaft Power at max. impeller	kW 54.90
21	Required pump NPSH m		Efficiency	%

Materials

22	Impeller	CF8M		
23	Casing	CF8M		
24	Shaft	AISI 316L		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3LP 80-250/556_460_Three Phase	Phases	3~
30	Specific design	IE2 / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	55	Weight	kg
32	Number of poles	2	Electric voltage	V 460
33	Speed rpm	3500	Electric current	A 81
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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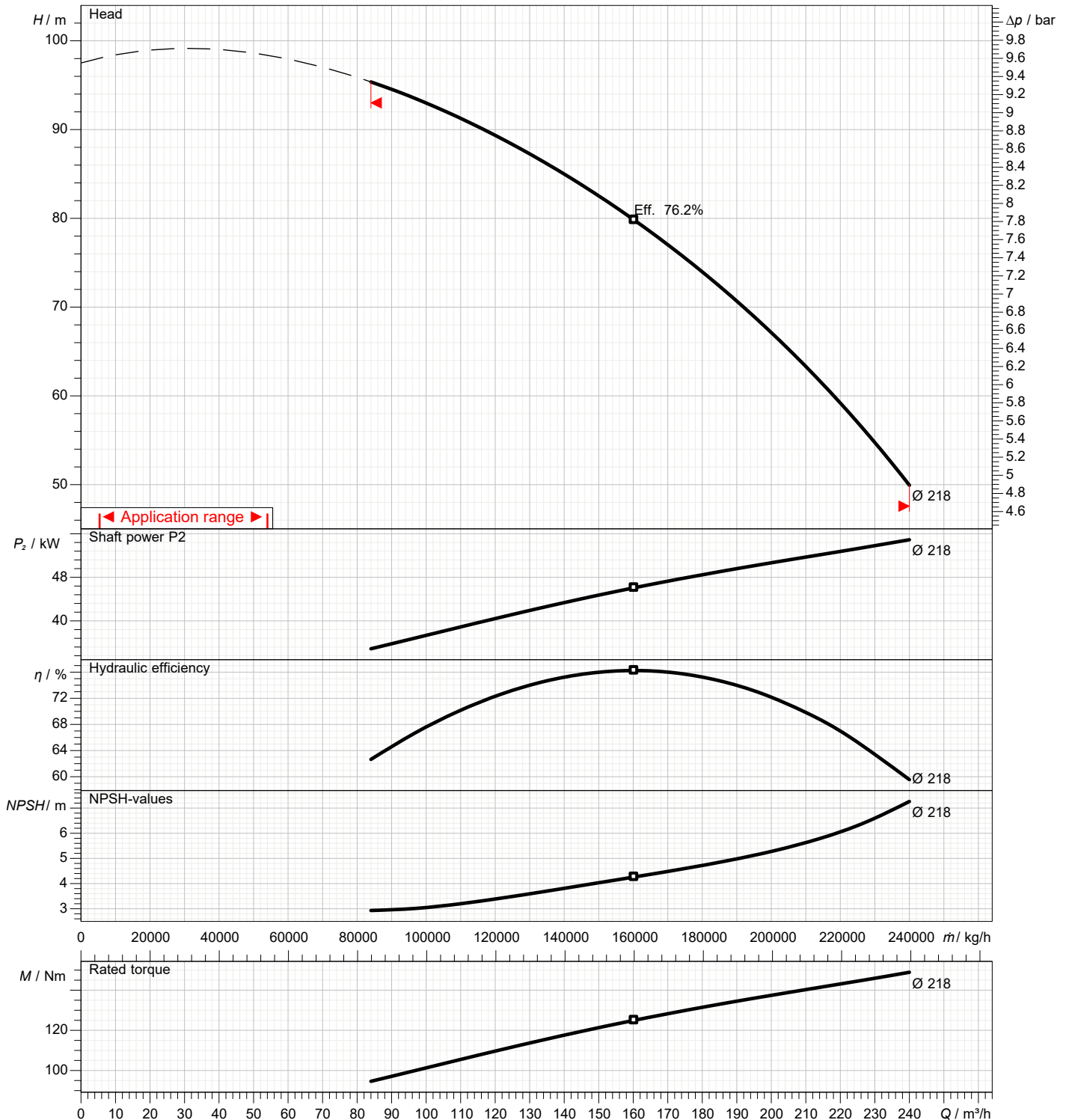
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	218	Speed	rpm	3520

Test standard: ISO 9906:2012 - Grade3B

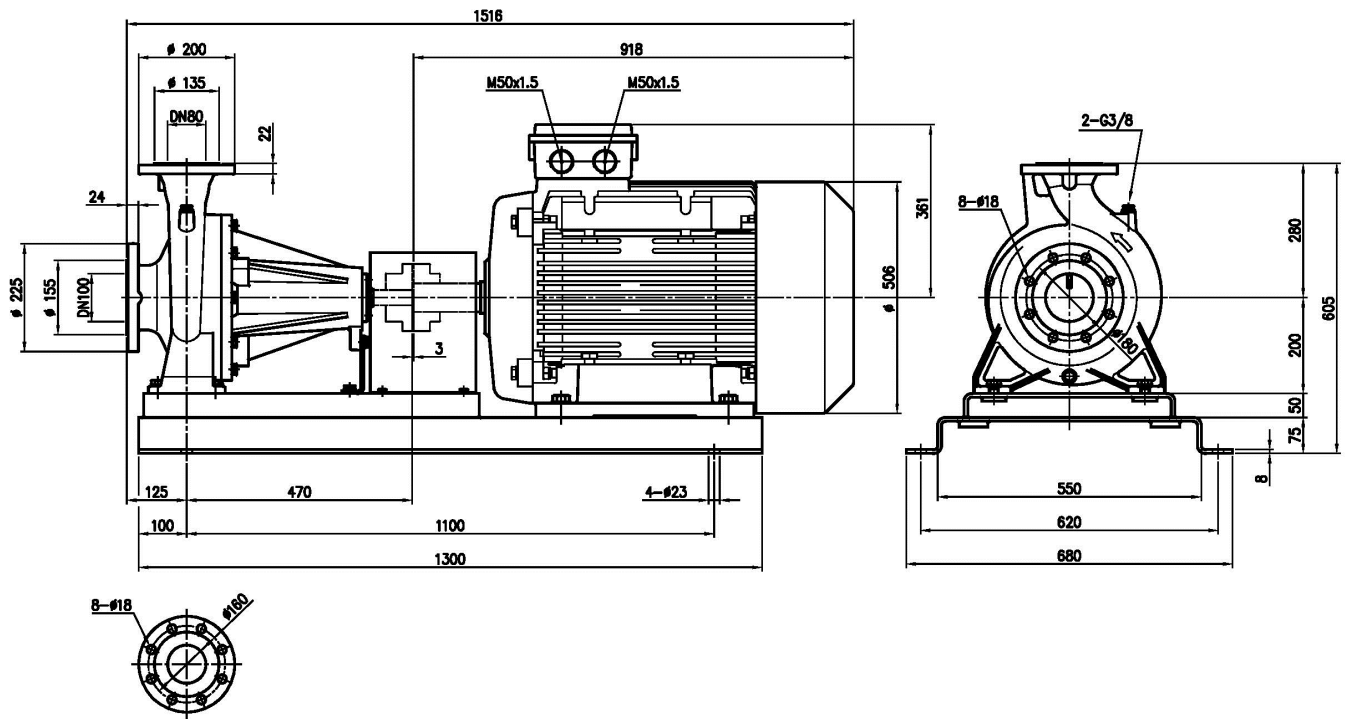
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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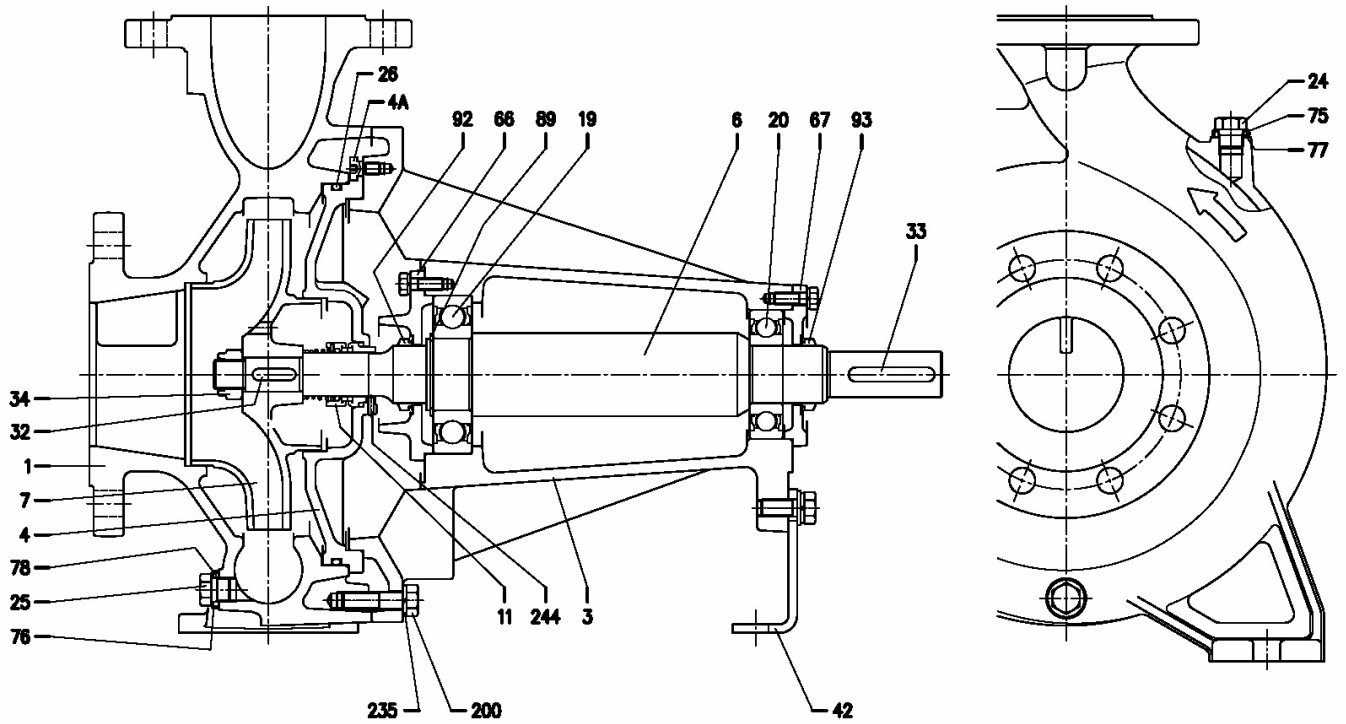
Dimensions in mm								
1	Weight P&M	528 kg						
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

(1/4)

Construction

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(2/4)**Construction****Pump name 3LP 80-250/556**

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI 316))			1
3	Support	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4401 (AISI 316)			1
4A	Screw for casing cover	EN 1.4301 (AISI 304)			2
6	Shaft	EN 1.4462 (Duplex stainless steel) - Wet extension			1
6A	Flexible coupling [6]	Cast iron EN-GJL-250-EN 1561			1
7	Impeller	CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal [5]	-			1
12	Motor	-			1
19	Bearing	-			1
20	Bearing	-			1
24	Plug	EN 1.4404 (AISI 316L)	G3/8		1
25	Plug	EN 1.4404 (AISI 316L)	G3/8		1
26	O-ring [4]	FPM/EPDM	253.36x5.34	OR 6995	1
32	Key 65-250 d=24 mm 80-200	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
					1
					1
33	Key 80-250 d=29 mm	C 40	10x8x60	UNI 6604	1
34	impeller nut 65-250 d=24 mm 80-200	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
					1
					1
42	Pump support	Zincate steel			1
42A	Base	Zincate steel			1
44	Protection	Zincate steel			1
50	Foot	Aluminium			0
50A	Spacer	Aluminium			[1]
50B	Spacer	Aluminium			[2]
50C	Spacer for protection	Aluminium			[3]
66	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561			1
67	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561			1
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)		1		
77	O-ring (plug)		1		
78	O-ring (plug) [4]	FPM/EPDM			1
89	Snap ring	Carbon tool steels TC 80	Ø 50	UNI 7435	1
92	V-ring	-	VS-0040		1
93	V-ring				1
200	Screw				Stainless steel A2 70 class ISO 3506/1
235	Washer	EN 1.4301 (AISI 304)	13	UNI 8842	10
244	Pin [3]	EN 1.4301 (AISI 304)	4x12	UNI 6873	1

[1] Quantity =0 for 65-250, 80-200/226 and 80-250/556
Quantity =2 for 80-200/306, 80-200/376 and 80-250/456

[2] Quantity =0 for 65-250, 80-200/226 and 80-250/556
Quantity =2 for 80-200/306, 80-200/376 and 80-250/456

[3] Not for H, HW, HSW, E version.

[4] See **MECHANICAL SEAL**, "O-ring" column, see CONSTRUCTION 3

[5] See **MECHANICAL SEAL**, see CONSTRUCTION 3

[6] See **FLEXIBLE COUPLING**, see CONSTRUCTION 3

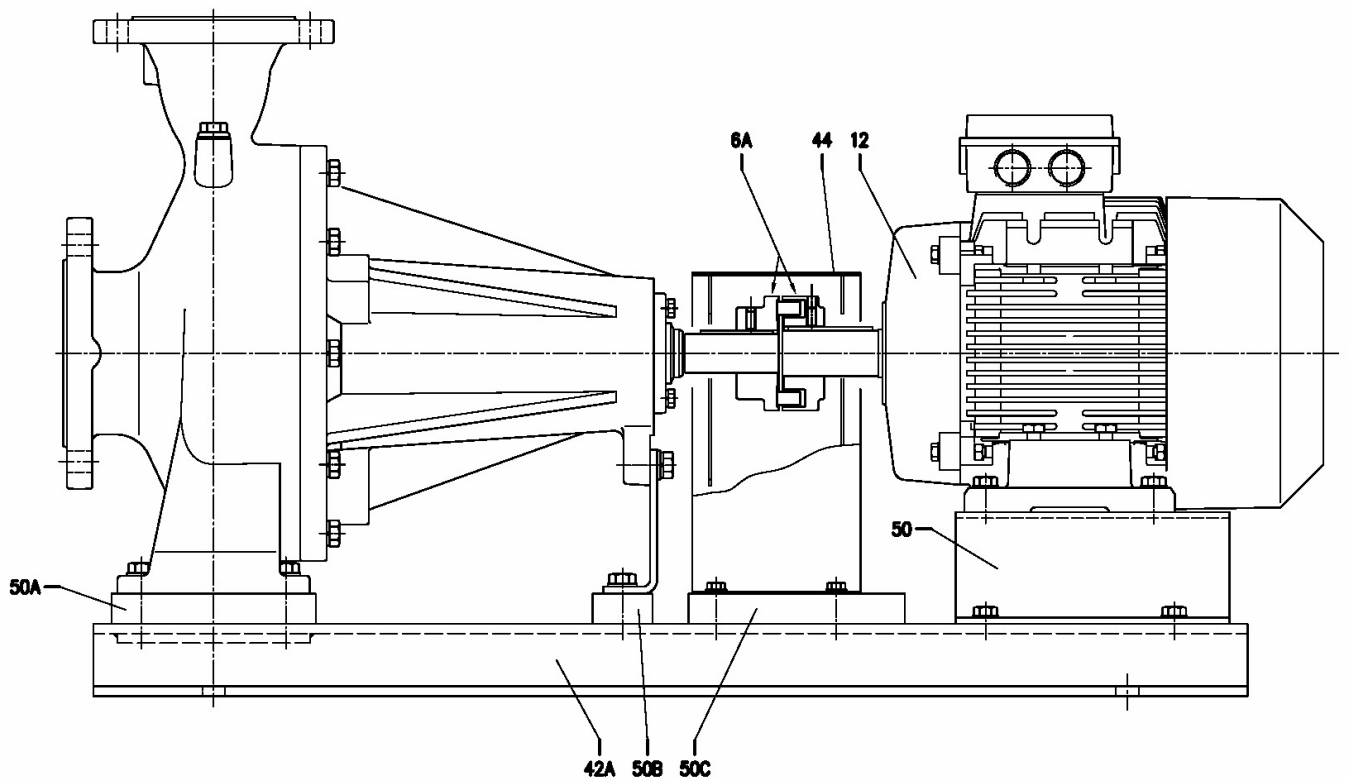
[7] See **BEARINGS**,

(3/4)

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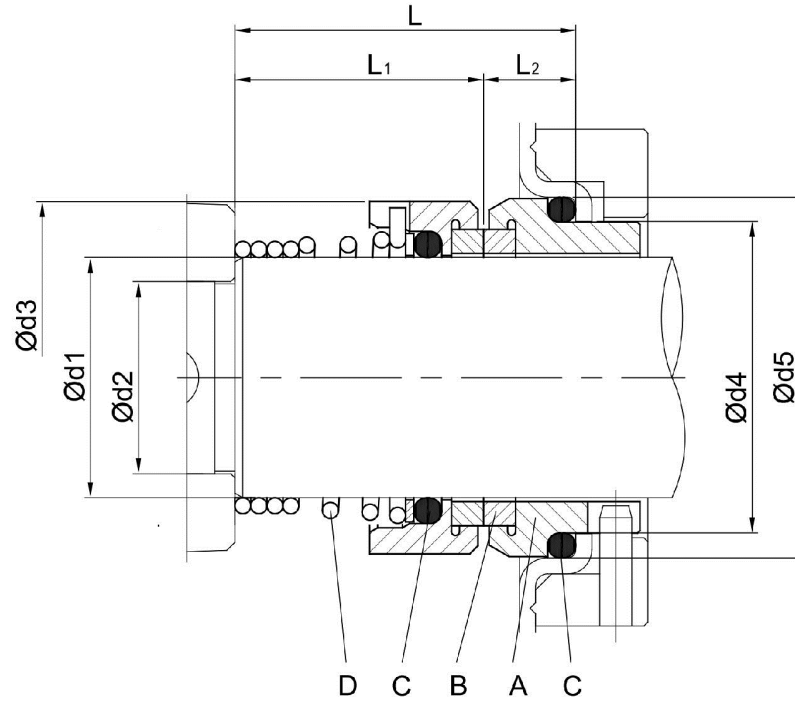


(4/4)

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Version	Pump type	Dimensions [mm]									Material Standard			
		d1	d2	d3	d4	d5	L	L1	L2	A Stationary seal ring	B Rotary seal ring	C O-ring	D Frame + spring	
L	80-250	35	29	49	44	50	42.5	31	11.5	SiC	SiC	FPM	EN 1.4401 (AISI 316)	