Technical Data

Pump Name 3DS 50-125/7.56

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	3DS 50-125/7.56	Frequency		Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	140
12	Speed rpm	3480		Designed	mm	140
13	No. of Stage	1		Min.	mm	140
14	Connection Suction side	EN 1092-2	Flow	Operating	m³/h	
15	Connection Discharge side	EN 1092-2		Max-	m³/h	86
16	Max Working Pressure bar	10		Min-	m³/h	30
17	Shut-off head bar	3.72	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	22.0
19	Shaft power kW			- (Qmin.)	m	37.2
20			Max. Shaft Power at max. impeller		kW	7.16
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 304		
23	Casing	Cast iron		
24	Shaft	AISI 304 (wet extension)		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class		F
29	Type	TEFC_3DS 50-125/7.56_460_Three Phase	Phases		3~
30	Specific design	IE2 / 60 Hz / Pole pairs 1	Frame size		132 S
31	Rated power kW	7.5	Weight	kg	
32	Number of poles	2	Electric voltage	V	460
33	Speed rpm	3500	Electric current	A	11.4
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance Curve

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Requested data

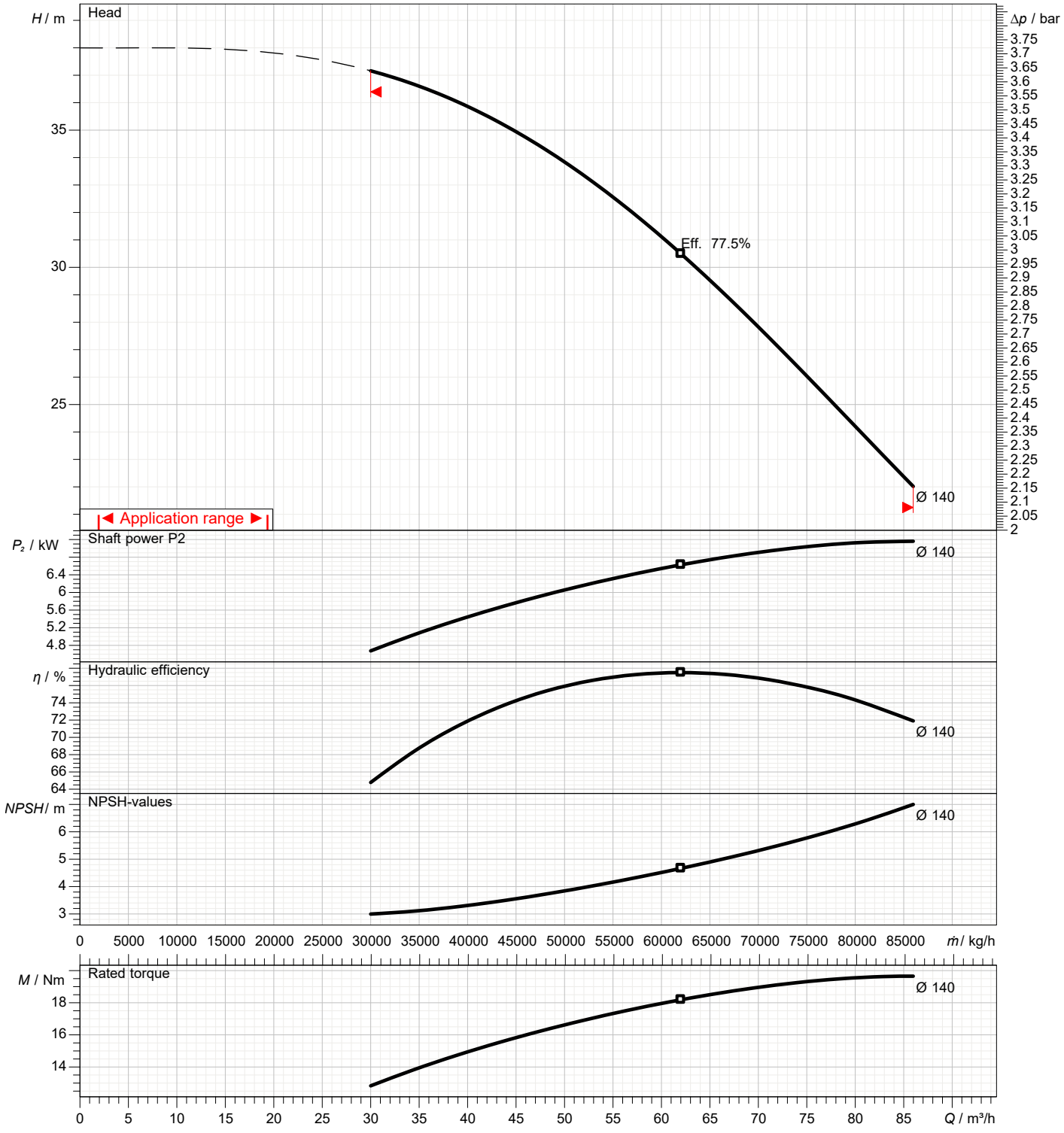
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	140	Speed	rpm	3480

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

Pump Name 3DS 50-125/7.56

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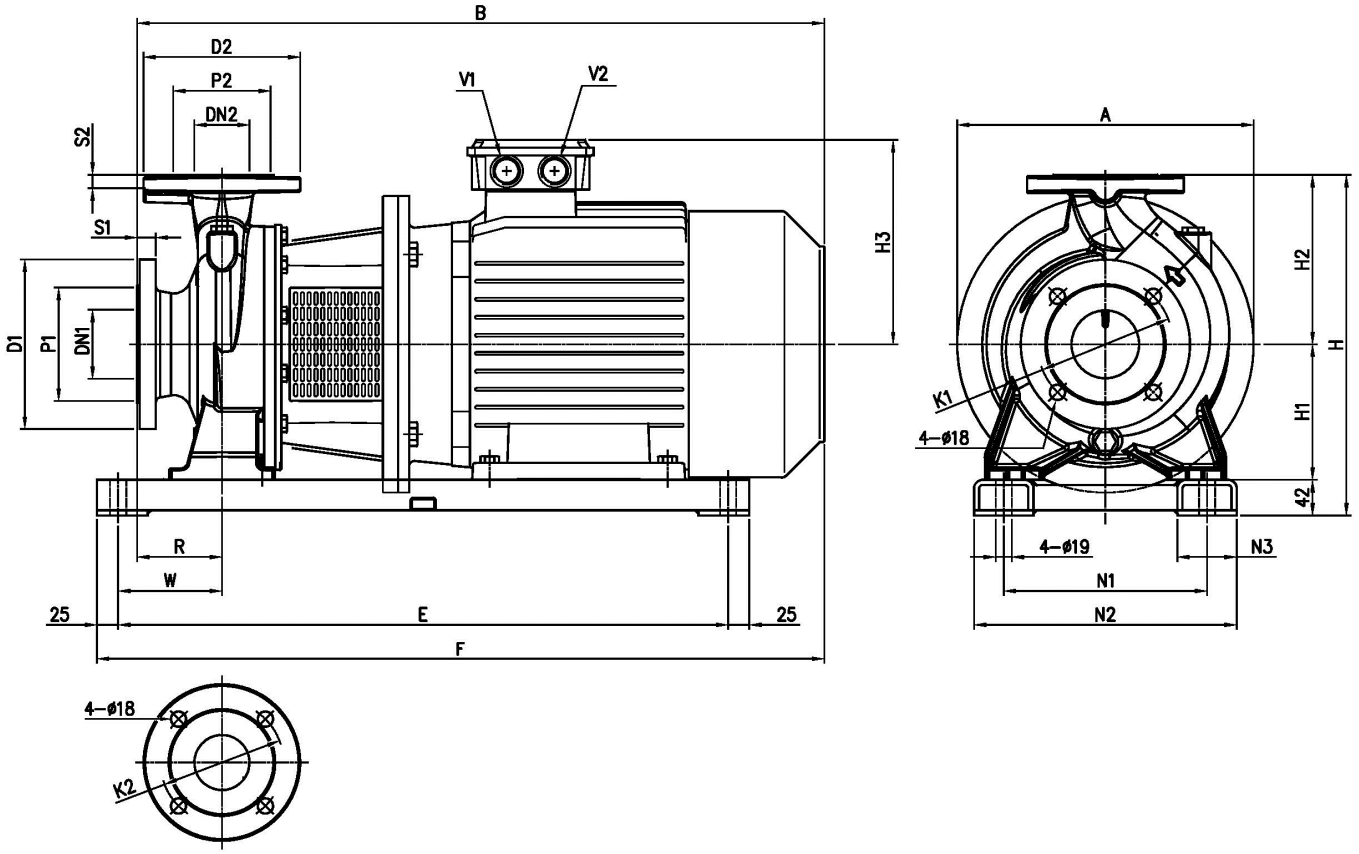

Dimensions in	mm							
1	A	300	H3	198				
2	B	627	N1	210				
3	Dia D1	185	N2	270				
4	Dia D2	165	N3	60				
5	Dia DN1	65	R	100				
6	Dia DN2	50	S1	20				
7	Dia K1	145	S2	20				
8	Dia K2	125	V1	M32x1.5				
9	Dia P1	122	V2	M32x1.5				
10	Dia P2	102	W	110				
11	E	600	Weight P&M	100,3 kg				
12	F	662						
13	H	334						
14	H1	132						
15	H2	160						

EBARA

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Construction

Pump Name 3DS 50-125/7.56

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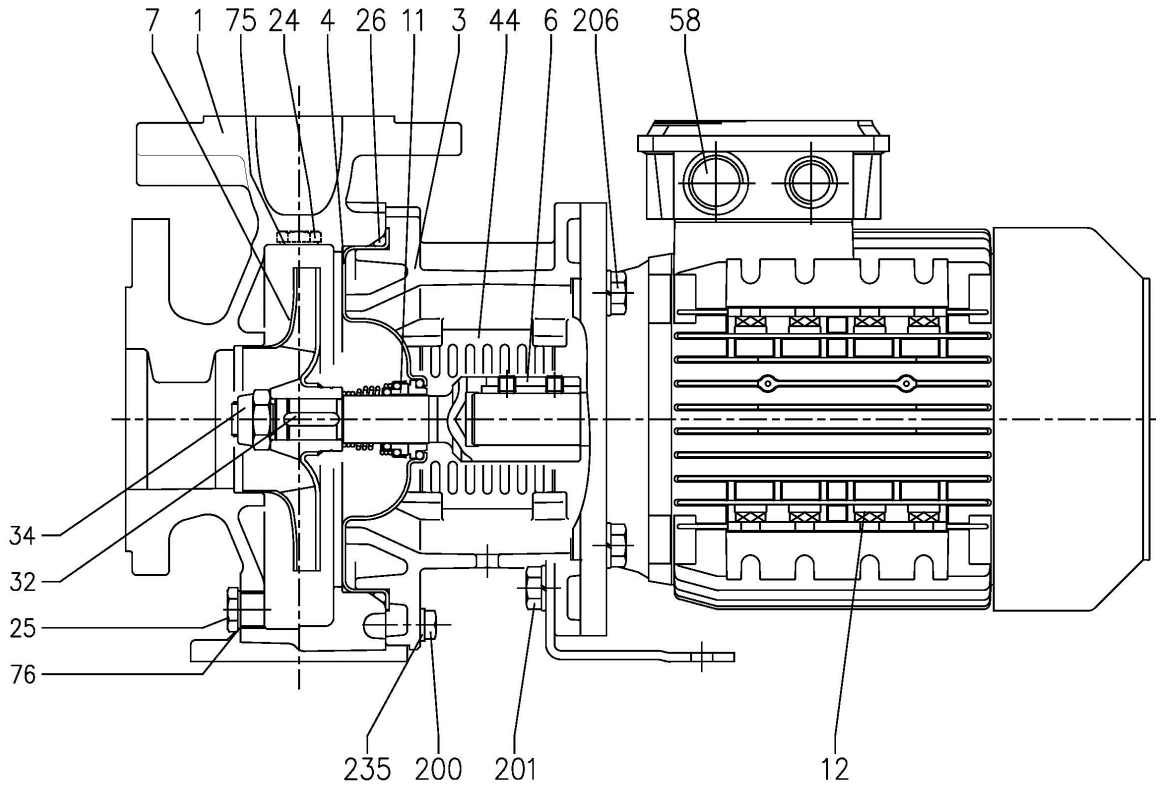

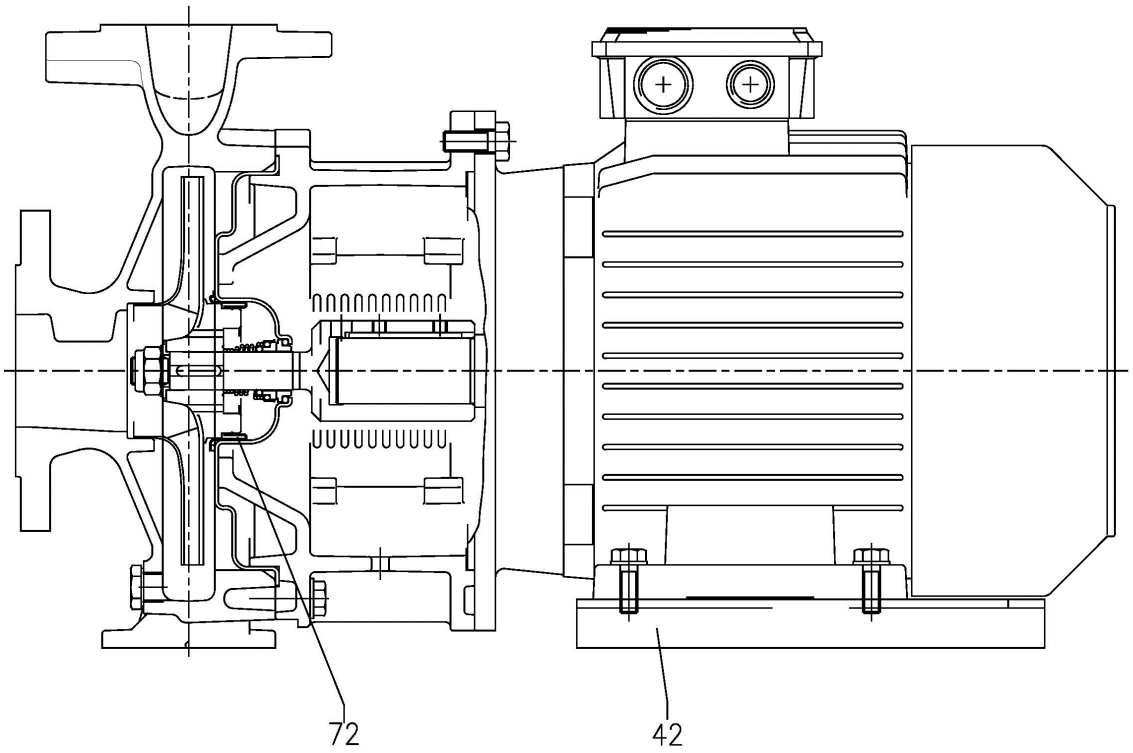

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Construction

Pump Name 3DS 50-125/7.56

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N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing		Cast iron EN-GJL-200-EN 1561			1
3	Motor bracket		Cast iron EN-GJL-200-EN 1561			1
3A	Adapter ring		Cast iron EN-GJL-200-EN 1561			1
4	Casing cover		EN 1.4301 (AISI 304)			1
6	Coupling - Wet extensions		EN 1.4301 (AISI 304)			1
7	Impeller		EN 1.4301 (AISI 304)			1
11	Mechanical seal	[1]	-	-		1
12	Motor		-			1
24	Priming plug		Brass	G 3/8" L=8		1
25	Draing plug		Brass	G 3/8" L=8		1
26	O-ring	32-125, 40-125	NBR/FPM/EPDM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125 [2]		183.52x5.34	OR 6720	
		32-200, 40-200, 50-160		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)	M16x1.5	UNI 7474	1
		15 kW and above		M20x1.5		
42	Foot		Galvanized Steel			1
44	Protection		EN 1.4301 (AISI 304)		EBARA DRAWING	1
58	Cable gland		-			
72	Casing ring	[3]	EN 1.4301 (AISI 304)			1
75	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
76	Washer		Aluminum			1
200	Screw	32-125, 40-125	Gv. Steel 8.8 strenght class ISO 898-1	M8x30	UNI 5739	8
		32-160, 40-160, 50-125		M10x35		10
		32-200, 40-200, 50-160				12
201	Screw	[4]	Gv. Steel 8.8 strenght class ISO 898-1	M10x16	UNI 5739	2
206	Screw for bracket		Gv. Steel 8.8 strenght class ISO 898-1	M10x40	UNI 5739	4
206-2	Screw adapter ring		Gv. Steel 8.8 strenght class ISO 898-1	M12x20	UNI 5931	4
235	Washer	32-125, 40-125	Galvanized Steel	8.4x17	UNI 6592	8
		32-160, 40-160, 50-125		10.5x21		10
		32-200, 40-200, 50-160				12

[1] See **CONSTRUCTION 3**
[2] See **CONSTRUCTION 3**, "O-ring" column
[3] Only for: 32-200, 40-200, 50-160
[4] Only for version 32-125/1.16, 32-160/1.56, 32-160/2.26, 40-125/1.56, 40-125/2.26, 50-125/2.26

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Construction

Pump Name 3DS 50-125/7.56

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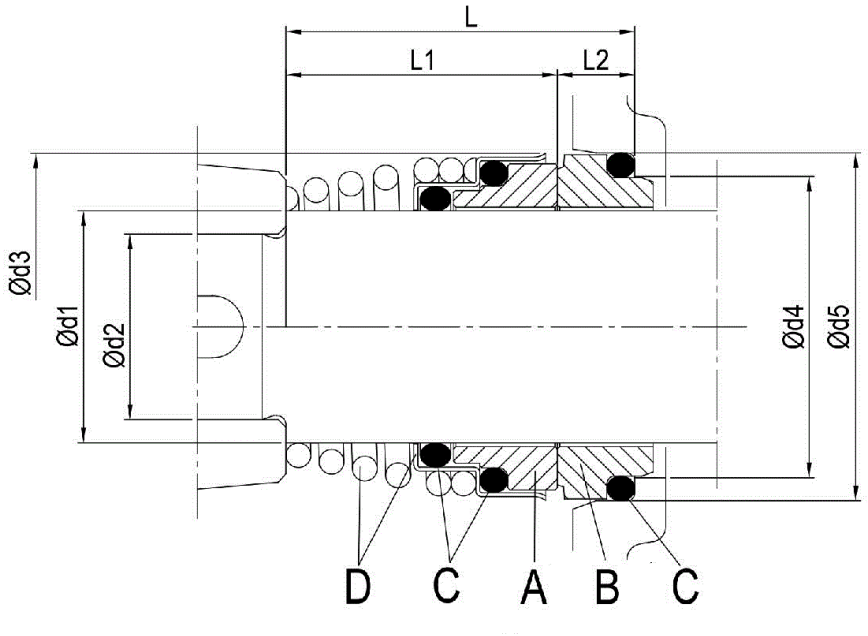

Pump type	Dimensions [mm]								Material Standard			
	d1	d2	d3	d4	d5	L	L1	L2	A Rotary seal ring	B Stationary seal ring	C O-ring	D Frame + Spring
32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/9.26-116	22	19	38	31	37	37.5	27.5	10	Ceramic	Carbon	NBR	EN 1.4301 (AISI 304)