Technical Data

Pump Name 3LP 65-250/30

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	20
3	Flow	m³/h		Kin. viscosity	cSt	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		3LP 65-250/30	Frequency		Hz	50
10	Design		CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm	235
12	Speed	rpm	2900		Designed	mm	235
13	No. of Stage		1		Min.	mm	235
14	Connection Suction side		DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side		DIN 2532		Max-	m³/h	144
16	Max Working Pressure	kPa	1000		Min-	m³/h	54
17	Shut-off head	kPa	763.88	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	52.0
19	Shaft power	kW			- (Qmin.)	m	77.0
20				Max. Shaft Power at max. impeller		kW	30.12
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_3LP65-250/30_400_Three Phase	Phases		3~
30	Specific design		IE3 / 50 Hz / Pole pairs 1	Frame size		200
31	Rated power	kW	30	Weight	kg	228
32	Number of poles		2	Electric voltage	V	400
33	Speed	rpm	2900	Electric current	A	51.8
34	Degree of protection					
35						

Remarks

EBARA

Performance Curve

Pump Name 3LP 65-250/30

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Requested data

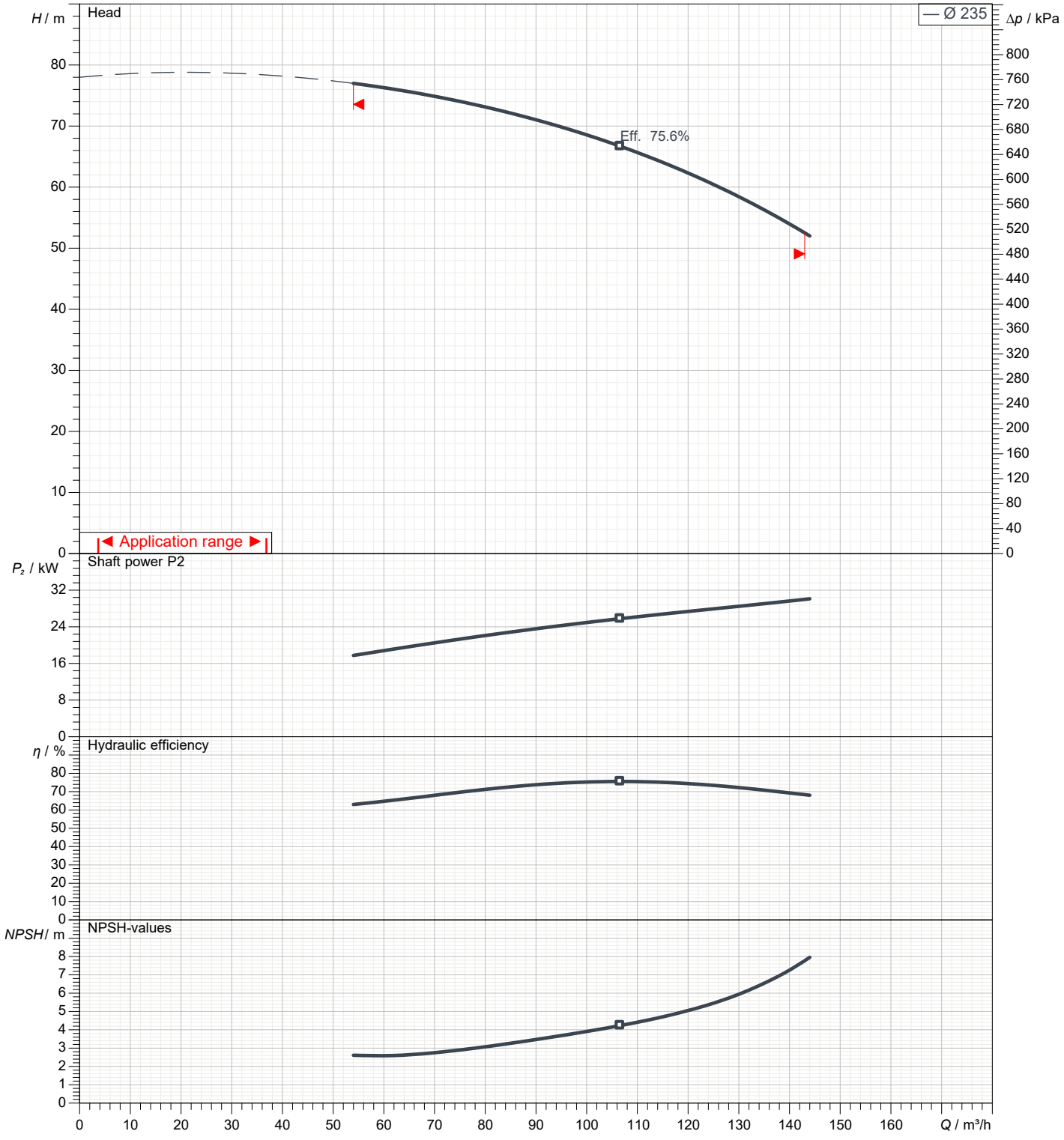
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	235	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

Pump name 3LP 65-250/30

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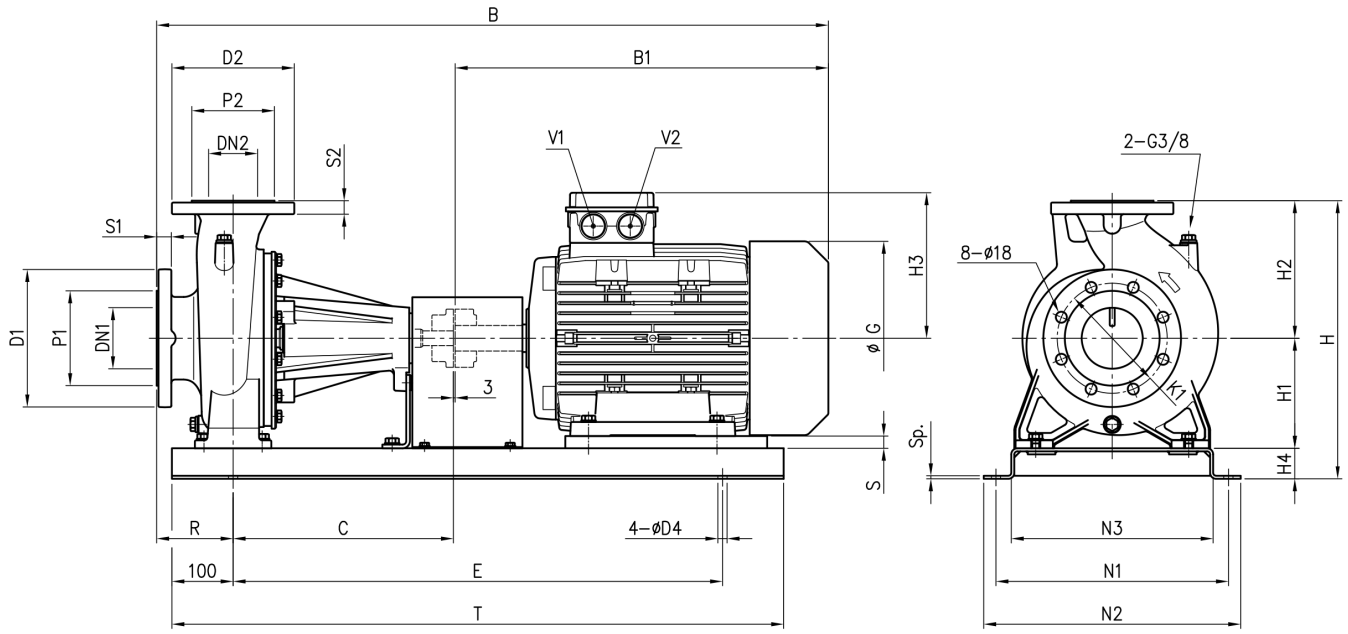

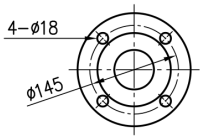

Fig. 1

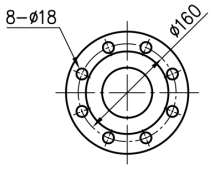

Fig. 2

Dimensions in	mm							
1	B	1341	H2	250				
2	B1	768	H3	300				
3	C	470	H4	60				
4	D4	19	N1	530				
5	Dia D1	200	N2	590				
6	Dia D2	185	N3	460				
7	Dia DN1	80	R	100				
8	Dia DN2	[65 Fig].1	S1	22				
9	Dia K1	160	S2	20				
10	Dia P1	135	Sp	8				
11	Dia P2	120	T	1200				
12	E	1000	V1	[M40x1].5				
13	G	399	V2	[M40x1].5				
14	H	510	Weight P&M	354 kg				
15	H1	200						

EBARA

(1/4)
Construction

Pump name 3LP 65-250/30

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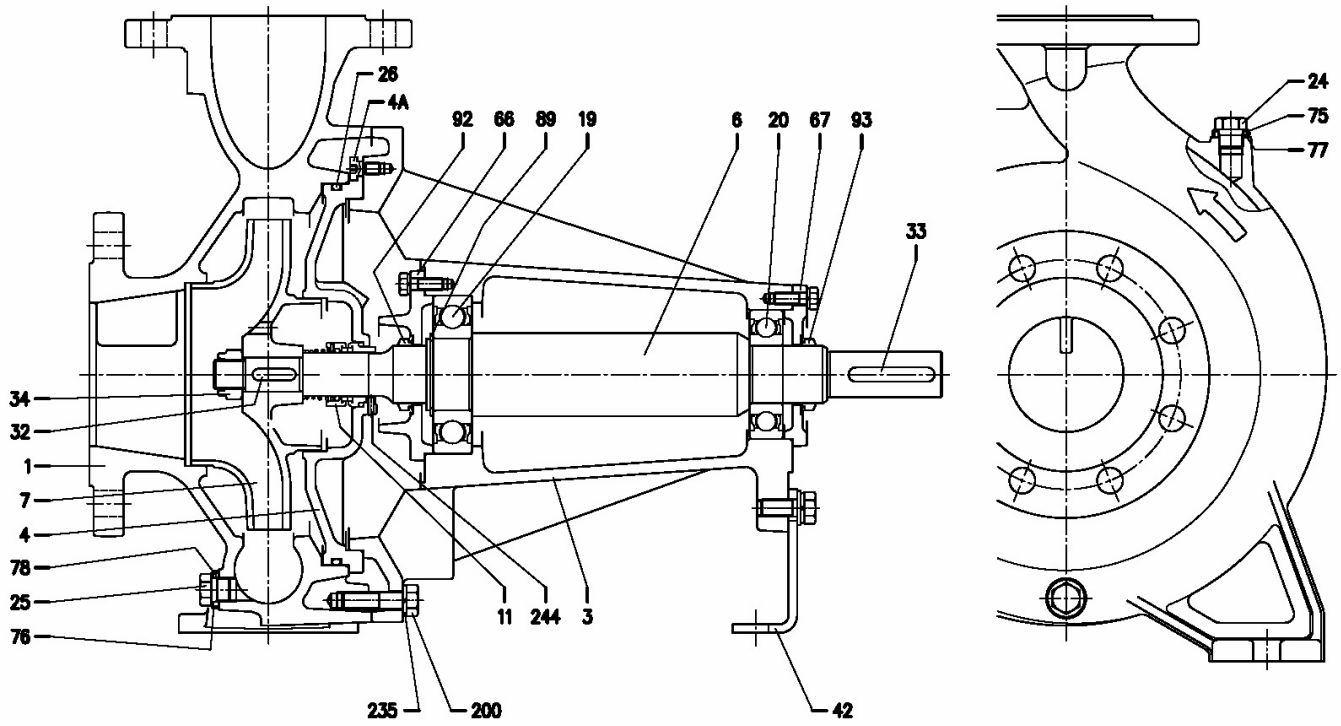

(2/4)
Construction

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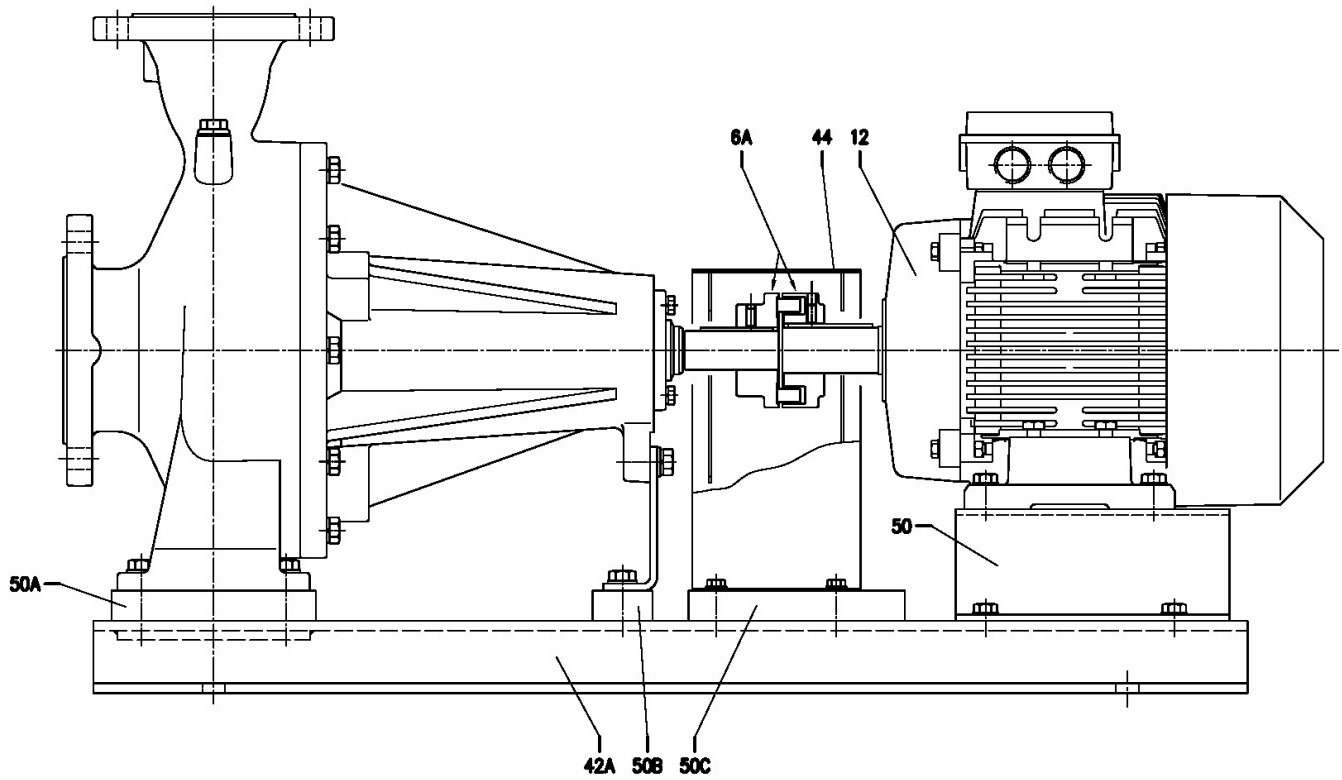

(3/4)
Construction

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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 [7]	-			1
20	Bearing [7]	-			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 80-200 d=24 mm	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
					1
	Key 80-250 d=29 mm		8x7x40		1
33	Key	C 40	10x8x60	UNI 6604	1
34	impeller nut 65-250 80-200 d=24 mm	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
					1
	impeller nut 80-250 d=29 mm		M24x2		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) [4]	FPM/EPDM			1
78	O-ring (plug) [4]				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	M 12x45	UNI 5739	10
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**,

(4/4)
Construction

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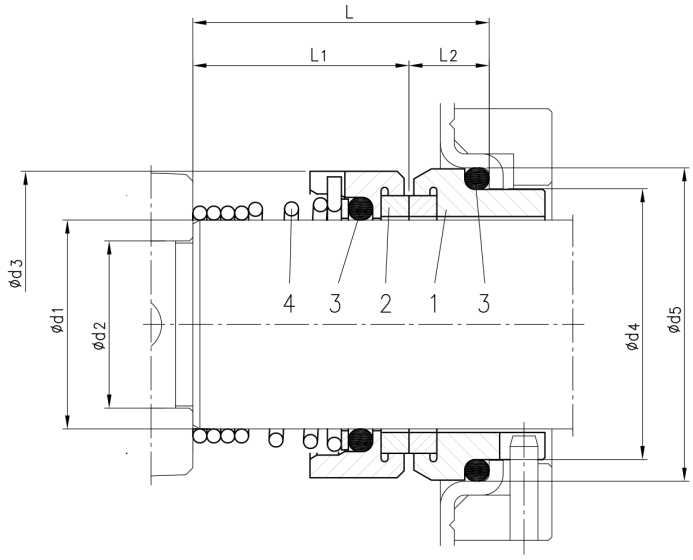

Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ⌀30	65-160/15 65-200/250 80-160/200	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)
L ⌀35	80-250	35	29	49	44	50	42.5	31	11.5				

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