SPEED, ENDURANCE AND PROPELLERS

CLASS	HOLLAND	A1	A2-4	A5-12	A13	B1-B11	C1-C18	C19-38	D1	D2	D3-8	E
Number of Shafts	1	1	1	1	1	1	1	1	2	2	2	2
SURFACE												
Bhp	160	350	450	400	500	600	600	600	1200	1200	1200	1600
Rev / Min	320	400	400	11.5	380	400	400	400	380	380	380	380
Speed design, knots	8	9	10.5	11+	11.5	13-13.5	13	13	14	14.5	14.5	15.25
" service, knots	7.4	9.5	10+	600 FP	11-	12	12	13+	14	14.5	14.5	14 (1)
Endurance design, miles at knots	355 Max					1330 @ 9	1330 @ 9	1300 @ 9			2500 @ 10	3000 @ 10 (2)
" service, miles at FP		500	360	325	260	740	910	910	1230	1400	1400	1500 (2)
" service, miles at knots	235 Max					1100 @ ½ FP	1360 @ ½ FP	1360 @ ½ FP	1750 @ 11.2	2000 @ 11.5	2000 @ 11.5	
SUBMERGED												
Bhp (E = ehp)	70	126E	150E	150E	150E	200E	300E	300E	554	554	554	840
Rev / Min	200	450	375	280	280	280	275	275	265	265	265	280
Speed design, knots	7	7-	7	7	7	7	7.5	7.5+	9.8	10	10	10.25
" service, knots	6 Max	6	6	6	6	6.5	7	8	9	9+	9+	9.5 (3)
Endurance design, miles at knots						50 @ 4.5	50 @ 4.5	55 @ 5	50 @ 5.5	60 @ 5.5	70 @ 5	99 @ 3
" service, miles at FP	20 @ 5	20 @ 5	20 @ 6	20@ 6	20 @ 6	22 @ 6.5	14 @ 7	16 @ 8	9 @ 9	9 @ 9	9 @ 9	10 @ 9
" service, miles at knots									50 @ 5	65 @ 5	65 @ 5	65 @ 5
PROPELLERS (As first fitted)												
Diameter ft-in	6-0	3-9	4-4	4-4	4-4	5-0	4-4	5-7	5-0	5-0	5-3	5-7
Pitch ft-in	4-3	Variable	4-9	4-1½	4-1½	3-8¾	4-7	3-9	5-2	5-1½	4-11½	5-1
Number of blades	3	4	3	3	3	3	4	3	3	3	3	3
FI at surface area ft²	5.16	5.92	8.0	7.91	7.91	9.0	8.12	8.0	7.8	7.8	7.0	9.75
Projected surface area ft²	4.90	6.72	6.72	6.72	6.72	8.19	6.83	7.35	5.7	5.77	6.0	8.33
Weight per propeller cwt			5.36	5.0	5.0	5.68	5.43	5.19	5.06	5.62	5.5	7.62

1.   NOTES in brackets eg (1) are given in Appendix III.

2.   Blank spaces are applicable but details are not known.

SPEED, ENDURANCE AND PROPELLERS

CLASS		S1-3	W1-2	V1	V2-4	F1-3	NAUTILUS	SWORDFISH (1913)	G1-14	J1-6
Number of Shafts		2	2	2	2	2	2	2	2	3
SURFACE										
Bhp		650	710	900	900	900	3700	4000	1600	3600
Rev / Min		460	400	450	450	450	340	530	380	380
Speed design, knots		13	13	13	13	14.5	17	18	1505	19.5-20
" service, knots		13	13	14	14	14				19+
Endurance design, miles at knots			1600 @ 10	1200 @ FP	1200 @ FP	3000 @ 9	5300 @ 11	3500 @ 10	2600 @ 12.5	2500 @ 19.5
" service, miles at FP		690		1200	1130	1000			1650	2600
" service, miles at knots		1600 @ 8.5		3000 @ 9	2800 @ 9		4400 Max (5)	3000 @ 8.5	3160 @ 10	5000 Max
SUBMERGED										
Bhp (E = ehp)		400	480	300	380	400	1000	1400	840	1350
Rev / Min				300	320	300	210		280	
Speed design, knots		8.5	8.5	8.5	8.5	8.75	10	10	9.5-10	10
" service, knots		8.5		8.5	9	9	9		9	9.5
Endurance design, miles at knots		75 @ 5	68 @ 5	74 @ 5	74 @ 5	75 @ 5	72 Max	72 @ 6	99 @ 3	55 @ 5
" service, miles at FP		8.5 @ 8.5		8 @ 8.5	8 @ 9	9 @ 9			10 @ 9	
" service, miles at knots				50 @ 5	50 @ 5	90 @ 3		60 @ 6	95 @ 3	60 @ 3
PROPELLERS (As first fitted)										
Diameter	ft-in			4-6			6-3			
Pitch	ft-in			4-1½	As		6-9			
Number of blades				3	V1		3			
FI at surface area	ft²			6.125			12.15			
Projected surface area	ft²			5.16			9.9			
Weight per propeller	cwt			5.04						

1.   NOTES in brackets eg (1) are given in Appendix III.

2.   Blank spaces are applicable but details are not known.

SPEED, ENDURANCE AND PROPELLERS

CLASS	K	K262	M1	H21	R	L	L50 (6)	X1	OBERON	OXLEY & OTWAY
Number of Shafts	2	2	2	2	1	2	2	2	2	2
SURFACE										
Bhp	10500	10500	2400	480	240	2400	2400	7000	2700	3000
Rev / Min	380-400	380-400	380-400	375	375	380	380	390	400	400
Speed design, knots	24	23.5	16	13	9.5	17	17.5	19.5-20	15	15.5
" service, knots	24	23.5	15	11.5	9.5	17-17.5	14	19.5	13.75	15.2
Endurance design, miles at knots	960 @ FP	1200 @ FP	2500 @ 16	2000 @ 13	2000 @ 9	2800 @ 17	3000 @ 17.5	14500 Max	12000 @ 8	14000 @ 8
" service, miles at FP	800 (5)	1200	2000	1100	2400	2850		5300 @ 18	4570	
" service, miles at knots	12500 @ 10 (4)	12670 @ 10 (4)	4500 Max	1600 @ 10	3000 Max	3600 @ ½ FP	3780 @ 12	16200 @ 10	6800 @ 10	8450 @ 10
SUBMERGED										
Bhp (E = ehp)	1440	1440	1600	620	1200	1600	1600	2400	1300	1300
Rev / Min	360	360	300	375		300	300		300	300
Speed design, knots	9	9	10	10-10.5	15	10.5	10.5	9	9	9
" service, knots	8+	8+	8-9	9	15	10.5+	8	7.5-8	7.5	8.5
Endurance design, miles at knots	13.5 @ 9	13.5 @ 9	10 @ 10	70 @ 3	15 @ 15	14 @ 10.5	80 @ 3	50 @ 4	60 @ 4	60 @ 4
" service, miles at FP	8 @ 8	8 @ 8	9@ 8+	9 @ 8	15 @ 15	14 @ 10.5		18 @ 4		16 @ 9
" service, miles at knots	30 @ 4	30 @ 4		34 @ 3.5	150 @ 1.5	65 @ 5	38 @ 5			
PROPELLERS (As first fitted)						5-7				
Diameter ft-in	7-6		5-10			5-7				
Pitch ft-in	7-8½		5-0			3				
Number of blades	3		3			12.09				
FI at surface area ft²	25.5		12.15			9.69				
Projected surface area ft²	22.0		10.23			14.48				
Weight per propeller cwt	32.0		14.96							

1. NOTES in brackets eg (1) are given in Appendix III.

2. Blank spaces are applicable but details are not known.

SPEED, ENDURANCE AND PROPELLERS

CLASS	ODIN	PARTHIAN	RAINBOW	THAMES	SWORDFISH	SHARK	PORPOISE
Number of Shafts	2	2	2	2	2	2	2
SURFACE							
Bhp	4400	4640	4640	10000	1550	1550	3300
Rev / Min	400	400	400	400	420	420	400
Speed design, knots	17-17.5	17-17.5	17-17.5	21.75	13.75	13.75	15
" service, knots	17.5	17.5	17.5	22.5	14.25	14.7	16
Endurance design, miles at knots	11400 @ 8	11400 @ 8	11400 @ 8	10000 @ 8	3800 @ 9	3800 @ 9	12800 Max
" service, miles at FP				2400	1880	1880	3860
" service, miles at knots	11400 @ 8	10750 @ 8	10900 @ 8	16100 Max	5750 @ 8	5750 @ 8	11500 @ 8
SUBMERGED							
Bhp (E = ehp)	1320	1320	1320	2500	1300	1300	1630
Rev / Min	240	240	240	245	380	380	272
Speed design, knots	9	9	9	10	10	10	8.75
" service, knots	8	8.5	8.75	10.5	10	10+	8.9
Endurance design, miles at knots	60 @ 4	60 @ 4	60 @ 4	10 @ 10	10 @ 10	10 @ 10	64 @ 4
" service, miles at FP	8 @ 8	8.5 @ 8.5	8.8 @ 8.8	13 @ 10	15 @ 9	15 @ 9	8 @ 9
" service, miles at knots	52 @ 4	70 @ 4	60 @ 4	118 @ 4	106 @ 4	106 @ 4	66 @ 4
PROPELLERS (As first fitted)							
Diameter ft-in	6-5	6-5	6-9				
Pitch ft-in	6-1	6-7	6-1				
Number of blades	3	3	3				
FI at surface area ft²	12.6	12.6	12.6				
Projected surface area ft²	10.5						
Weight per propeller cwt							

1.   NOTES in brackets eg (1) are given in Appendix III.

2.   Blank spaces are applicable but details are not known.