

WATER TEST PRESSURE  
INDIVIDUAL TUBES TESTED AT — 1000 LBS/SQ. IN.  
AFTER COMPLETION OF SYSTEM — 50 LBS/SQ. IN.

WATER INLET & OUTLET (TUBEPLATES) AT  
OPPOSITE SIDES OF BEARING TO TAKE  
STANDARD A.S.A. FLANGES FOR 1" BORE PIPES.  
EACH FLANGE 4 1/4" DIA. WITH 4 - 1/2" UNC STUDS  
ON 3 1/8" P.C.D.IA.

6 - 1 1/2" DIA. HOLES FOR 1 1/4" DIA.  
HOLDING DOWN BOLTS.

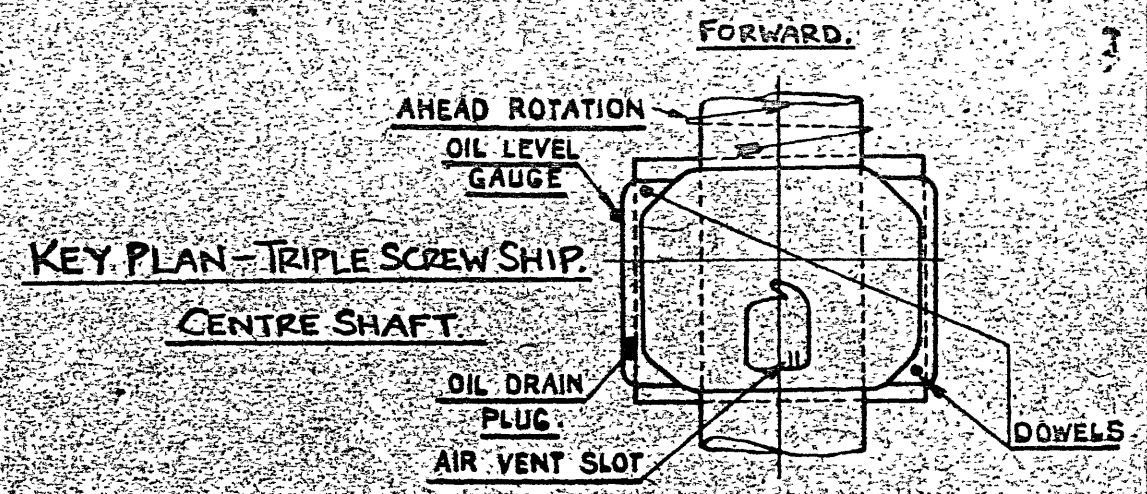
THESE BEARINGS ARE OF THE SELF LUBRICATING  
SELF CONTAINED TYPE, PROVIDED WITH COOLING  
TUBES CIRCULATING SEA OR RIVER WATER, &  
WILL BE OPERATED ON THIS PRINCIPLE FOR  
NORMAL DUTY.  
THE GRAVITY CIRCULATING OIL SYSTEM IS FITTED  
IN ORDER TO ASSIST LUBRICATION & TO MAKE  
SURE THAT THE BEARINGS ARE PROPERLY  
LUBRICATED AT BREAKAWAY SPEED AFTER, &  
WHEN THE SHAFTS HAVE BEEN STALLED DUE  
TO HEAVY ICE CONDITIONS.

HALF INVERTED PLAN.

OIL INLET TO TAKE STD 1" BORE A.S.A. FLANGE-  
FLANGE 4 1/4" DIA. WITH 4 - 1/2" U.N.C. STUDS (1" STANDOUT)  
ON 3 1/8" P.C.D.IA. FITTED WITH 5/32" BORE  
RESTRICTION PLATE.

SHAFT DIA.	25.25 IN.
REVS. PER MIN.	154 MAX.
JOURNAL LOAD	10500 LB.
JOURNAL SURFACE (PROJECTED)	374 IN <sup>2</sup>
JOURNAL PRESSURE	28 LB./IN <sup>2</sup>
DIAMETRAL OIL CLEARANCE	.026 IN.
HEAT GENERATED	62 BTU/MIN.
COOLING WATER PER HOUR	80 GALLONS.
CIRCULATING OIL PER HOUR	35 GALLONS.
OIL CAPACITY OF CASING (APPROX.)	9.5 GALLONS.

ALTERNATIVES



HALF PLAN VIEW.

VIEW ON AFT END.

LIST OF PARTS PER BEARING.					
REF.	PART NO.	PART NAME	N <sup>o</sup> OFF.	MATERIAL	REMARKS
1	DS26/50TH	CASING - BOTTOM.	1	CAST STEEL	WHITEMETAL LINED & FACED.
2	D726/252	CASING TOP	1	CAST STEEL	WHITEMETAL LINED & FACED.
3	F807/5B	INSPECTION DOOR	1	PERSEPEX	
4	255H/5299	JOURNAL PAD	5	GUNMETAL	WHITE METAL LINED.
5	F74/67	JOURNAL PAD STOP	2	"	"
6	F850/2003	OIL THROWER RING	1	ALUM. ALLOY	
7	F57/34	OIL SCRAPER	1	GUNMETAL	
8	F200/344	OIL DEFLECTOR	2	ALUM. ALLOY	STD. N93/5 1/2
9	F8206/227	OIL LEVEL GAUGE	1	PERSEPEX	STD. 4" (UN <sup>o</sup> )
10	F235/295	OIL-DRAIN PLUG	1	MILD STEEL	STD. 1/2" N.P.T.
11		WING NUTS	2	MANG. BRONZE	STD. 1/2" UNC
12		STUDS	2	MILD STEEL	STD. 1/2" UNC x 2" LONG
13		JOINT BOLTS & NUTS	4	"	STD. 1/2" UNC x 10 3/8" LONG
14		JOINT BOLT & NUTS	2	"	STD. 1 1/2" UNC x 12 1/8" LONG
15		ROUND HEAD SCREWS	4	"	STD. 3/16" UNC x 3/4" LONG
16		TAP BOLTS	4	"	STD. 7/8" UNC x 7" LONG
17	F87/197	TUBEPLATE	2	R.N. BRASS	
18		TUBES	3	CUPRO-NICKEL	EACH 3/4" DIA. x 18 SWG x 3'-7 1/2" LONG
19		METALLIC PACKING RING	12		CRANE N°601CN-885 DIA x 1 1/4" x 1/4" THK
20		FIBRE PACKING RING	6		CRANE N°602 - 885 DIA x 1 1/4" x 1/4" THK
21		FERRULES	6	CUPRO-NICKEL	CRANE N°603 LTD. DRE. N° 21838
22		STUDS & NUTS	8	MILD STEEL	STD. 1/2" UNC x 3" LONG
23		C'SK. SCREWS	4	"	STD. 1/2" UNC x 1 1/2" LONG
24	F218/18	TUBE GUARD	1	"	SECURED BY 1/2" STD 3/8" DIA. SPRING WASHER
25		WASHER	2	"	STD. 1/2" DIA.
26		DOWEL	2	CAN. HARDENED MILD STEEL	STD. 3/4" DIA. LONG - DRIVING FIT IN CASING BOTTOM, SLIDING FIT IN CASING TOP
27	F875/372	JOINT	2	WYNNIGE LUBRICATING	
28	F250/57	SPRING	1	SPRING STEEL	STURM (CRANE) 1.56 MM DIA x 205 X 6 H.S. PER.
29	F252/258	RESTRICTION PLATE	1	MILD STEEL	
30		OIL INLET STUDS & NUTS	4	"	STD. 1/2" UNC x 1 1/2" LONG
31		OIL OUTLET	4	"	STD. 1/2" UNC x 1 1/2" LONG

Centre Shaft trailing block.

DATE	ORDER N <sup>o</sup>	FOR MESSRS	ENG. N <sup>o</sup>	N <sup>o</sup> OF SPARES	REMARKS
23 MAR 65	66962	CANADIAN VICKERS LTD.	HULL 286	1	CANADIAN DOT. THIS ORDER ONLY COVERS PREPARATION OF DRAWINGS
24 JUNE 65	67165	"	"	1	REVISIONS TO BE MADE BY THE DRAWING ENGINEER. THIS ORDER ONLY COVERS PREPARATION OF DRAWINGS
17 FEB 66	67447	"	"	1	REVISIONS TO BE MADE BY THE DRAWING ENGINEER. THIS ORDER ONLY COVERS PREPARATION OF DRAWINGS
17 FEB 66	67448	"	"	1	REVISIONS TO BE MADE BY THE DRAWING ENGINEER. THIS ORDER ONLY COVERS PREPARATION OF DRAWINGS

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6 SEP 1983

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26MAT/44768/2

MICHELL AFTERMOST BEARING (TRAILING)  
SELF LUBRICATING TYPE MAT. WATER COOLED BY TUBES  
SCALE: 1/4" SIZE & AS MARKED  
26MAT/44768/2

MICHELL BEARINGS LTD  
NEWCASTLE-UPON-TYNE

OR TR. CH. 18 MAR 65

26MAT/44768/2