NOTES:

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1. SEE REFERENCES 1 THROUGH 5 FOR RELATED INSTALLATION AND ELECTRICAL/ELECTRONIC AND COOLING CIRCUIT DRAW

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- 2. SEAKEEPER 2 ASSEMBLY WEIGHT = 414 LBS (188 KG).
- 3. RAW WATER COOLING REQUIREMENT IS 8 LPM (2 GPM) MINIMUM AND 23 LPM (6 GPM) MAXIMUM CONTINUOUS FLOW. PROVIDED CONNECTIONS ARE 19mm(3/4") HOSE BARB. USE OF RAW WATER STRAINER IS REQUIRED.
- 4. TWO LIFTING EYEBOLTS (M8-1.25 X 16MM THREAD LG) ARE PROVIDED ON THE TOP OF THE SEAKEEPER SPHERE FOR USE WITH A CHAIN/SPREADER BAR; TOP COVER MUST BE REMOVED TO ACCESS LIFTING EYES.
- 5. THE SEAKEEPER MUST BE INSTALLED AFT OF AMIDSHIP TO MINIMIZE HIGH ACCELERATION LOADING DUE TO HULL/WAVE IMPACTS DURING OPERATION AT HIGH SPEED OR IN LARGE WAVES. SEAKEEPER DOES NOT NEED TO BE MOUNTED TO CENTERLINE OF KEEL. SEAKEEPER SUPPORT STRUCTURE MUST BE PARALLEL TO VESSEL WATERLINE, WITH UP TO 2 DEGREES OF ALLOWANCE FOR TRIM.
- 6. SEAKEEPER MAY BE INSTALLED FACING FORWARD OR AFT AS SHOWN. SEAKEEPER ORIENTATION SHOULD BE SELECTED TO PROVIDE THE MOST ACCESSIBILITY FOR FUTURE SERVICE AND MAINTENANCE. INSTALLATION, START-UP, AND OPERATION IS THE SAME REGARDLESS OF THE SEAKEEPER ORIENTATION. 7. WHEN INSTALLING, SEAKEEPER RECOMMENDS USING A BOLT HOLE LOCATION FIXTURE P/N 90473 AVAILABLE FROM SEAKEEPER. THIS FIXTURE WILL PROPERLY SPACE AND
- LOCATE HOLES TO BE DRILLED IN HULL STRUCTURE FOR BOLT-IN OF SEAKEEPER FOUNDATION. 8. REFER TO 90590, SEAKEEPER 2 GENERIC INSTALLATION GUIDE FOR DETAILED INSTALLATION ARRANGEMENTS.





REE		DWG TITLE
	90490	SEAREEPER 2 COOLING WATER SCHEMATIC
2	90470	SEAKEEPER 2 CABLE BLOCK DIAGRAM
3	90558	CONNECTBOX HELM MOUNTING KIT
4	90474	SEAKEEPER 2 BLIND-HOLE KIT
5	90488	SEAKEEPER 2 INSTALLATION MANUAL
6	90590	SEAKEEPER 2 GENERIC INSTALLATION GUIDE

SHEET 2: SEAKEEPER ENVELOPE SHEET 3: LIFTING DETAILS, SERVICE CLEARANCES, AND BOLT PATTERN SHEET 4: SEAWATER HOSE CONNECTIONS SHEET 5: GYROSCOPIC LOADS FOR HULL STRUCTURE DESIGN AND RECOMMENDED HULL STRUCTURES/MOUNTING

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REV NO.	ECN NO.	ZONE		DESCRIPTION		DATE	DRAWN	APPRVD.
1			RELEASED F	FOR PRODUCTION		18JAN2018		BEN
2	0906	5-C3, 5-C7	CHANGED INSTALLATIO BEAM INSTA VIEWS WITH	PLATING FOR M14-2.0 BOLT FROM AL-ZN TO Zn-Ni, A ON INSTRUCTIONS, REMOVED SHEET 5 TRANSVERSE A ALLATION, ADDED ENVELOPE DIMENSIONS TO SHEET I CONNECTBOX	DDED THRU-BOLT ND LOGITUDINAL 2, UPDATED	28JUL2021	TMD	ZGY
3	0906	D5, 5- A1	REMOVED TO NOTE 5. MAX FIBER(CONNECTBOX COMPONENTS. SHT1 ADDED ALLOW SHT5 REMOVED GASKET FROM BLIND BOLT VIEW AN GLASS THICKNESS TO 6.86MM.	ANCE FOR TRIM D CHANGED	29AUG2022	RMF	DMF
4	1059	A7, D6, D8, F8, 3-D6, 3- F2, 3-F7, 5-D3	UPDATED V REPLACE "C TO "BLIND-F CONNECTE TABLE. ADE INSTALLATIC FROM 2" TC	VIEWS WITH CONNECTBOX. UPDATED NOTES AND DE GYRO'' WITH "SEAKEEPER". DESCRIPTION CHANGE FRO HOLE KIT". REPLACED 90438- 5" DISPLAY MOUNTING V BOX MOUNTING DOC AND ADDED 90590-INSTULATION DED LIFTING EYEBOLT THREAD SPEC TO NOTE 4. CORF ON FIXTURE KIT P/N TO 90473. REQUIRED AFT CLEARA O 4". ADDED CLEARANCE NOTES.	SCRIPTIONS TO DM "BOLT-IN KIT" VITH 90558 DN GUIDE TO REF RECTED NCE INCREASED	10MAR2023	RMF	DMF
5	1114	3-A7	CHANGED	LIFTING EYEBOLTS AND VACUUM VALVE PORT ORIE	NTATION.	03NOV2023	RMF	AP



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PROPRIETARY AND CONFIDENTIAL	3rd ANGLE PROJECTION					
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		DESCRIPTION:				
		SEAKEEPER 2 BOLT-IN INSTALLATION				
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CLEARANCE REQUIREMENTS NOTES:

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- 1. THE MINIMUM SERVICE CLEARANCES ARE BASED ON THE SIZE OF SERVICEABLE COMPONENTS AND TOOLS REQUIRED TO REMOVAL AND REPLACEMENT OF THESE COMPONENTS. THE CLEARANCES DO NOT CONSIDER HOW THE TECHNICIAN WILL BE POSITIONED FOR ACCESS TO THESE AREAS. ACCESS FOR A TECHNICIAN MUST BE CONSIDERED BY THE INSTALLER.
- 2. THE CLEARANCE AND ACCESS REQUIREMENTS DO NOT NEED TO BE PERMANENT AND CAN BE PROVIDED VIA HATCHES, REMOVABLE PANELS, OR OTHER TEMPORARY MEANS WHERE APPLICABLE.
- 3. THE DESIGNER / INSTALLER SHOULD CONSIDER ALL OF THESE FACTORS FOR SERVICEABILITY WHEN DEFINING THE INSTALLATION ARRANGEMENT.

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VIEWS SHOWING REQUIRED CLEARANCES AROUND SEAKEEPER

TOP DOWN ACCESS MUST BE INCORPORATED INTO THE INSTALLATION DESIGN TO ALLOW FOR ADEQUATE REGULAR MAINTENANCE, SERVICE, AND REPAIR OF COMPONENTS



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IF SIDE ACCESS IS NOT AVAILABLE TO THE MOUNTING BOLTS; THE MANIFOLD, TOP, AND FACE COVER PANELS MAY BE REMOVED. AN INSTALLATION FIXTURE IS AVAILABLE TO TRANSFER THE SEAKEEPER 2 BOLT PATTERN ON TO THE HULL STRUCTURE. (SEAKEEPER 2 INSTALLATION FIXTURE KIT P/N: 90473)



MOUNTING BOLT PATTERN/DETAILS

SEE SHEET 2 FOR HULL STRUCTURE CLEARANCE REQUIREMENTS







NOTES: 1) SEAWATER HOSE CONNECTIONS ARE 3/4 INCH HOSE BARB FITTINGS. 2) THERE ARE 2 HOSE ROUTING OPTIONS RECOMMENDED. USE THE ROUTING THAT WORKS BEST FOR EACH INSTALLATION. 3) DO NOT ROUTE HOSES UP FROM BOTTOM, FROM UNDERNEATH SEAKEEPER FOUNDATION.



-SEAWATER ROUTING OPTION 2

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WHOLE WITHOUT THE WRITTEN PERMISSION OF SEAKEEPER IS PROHIBITED	 MATERIAL:	description: SEAKEEPER 2 BOLT-I DFTA	IN INST	ALLA	TION
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ALL OTHER FILE FORMAT TYPES		DRAWING NO:	REV NO:	SCALE:	SHEET NO:
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