

- 1 INPUT GROUP REFERENCE PLANE
- 2 PTO ADAPTER MOUNTING FACE
- 3 LEFT MOUNTING BRACKET FACE
- 4 RIGHT MOUNTING BRACKET FACE

NOTES:

- A. MANUAL OVERRIDE VALVE OPERATION
1. THE MANUAL OVERRIDE FEATURE FOR THE PRIMARY AND SECONDARY SOLENOIDS MUST NEVER BE ENGAGED SIMULTANEOUSLY.
 2. THE MANUAL OVERRIDE BUTTON FOR BOTH THE PRIMARY AND SECONDARY SOLENOIDS MUST BE IN THE NEUTRAL POSITION TO OPERATE EITHER SOLENOID ELECTRICALLY.
 3. TO ENGAGE PRIMARY CLUTCH USING THE MANUFAL OVERIDE:
 - a. REMOVE PROTECTIVE CAP FROM THE PRIMARY SOLENOID
 - b. PUSH BUTTON DOWN
 - c. CONTINUE TO PUSH BUTTON AND ROTATE CLOCKWISE 180°
 - d. RELEASE BUTTON
 4. TO ENGAGE SECONDARY CLUTCH USING THE MANUFAL OVERIDE:
 - a. REMOVE PROTECTIVE CAP FROM THE SECONDARY SOLENOID
 - b. PUSH BUTTON DOWN
 - c. CONTINUE TO PUSH BUTTON AND ROTATE CLOCKWISE 180°
 - d. RELEASE BUTTON
 5. TO RETURN EITHER OF THE PRIMARY OR SECONDARY MANUAL OVERRIDE TO THE NEUTRAL POSITION:
 - a. PUSH BUTTON DOWN
 - b. CONTINUE TO PUSH BUTTON AND ROTATE COUNTER-CLOCKWISE 180°
 - c. RELEASE BUTTON
 - d. INSTALL PROTECTIVE CAP OVER THE MANUAL OVERRIDE BUTTON

- B. REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND TEMPERATURE ALARM LEVELS.

WIRING DIAGRAM :

TERMINAL 1 :+ VDC

TERMINAL 2 :0 VDC

TERMINAL 3 :GROUND

- OPTIONAL TEMPERATURE INDICATING SWITCH:
CUSTOMER TO INSTALL IN A PIPE TEE IN THE HYDRAULIC LINE LEADING FROM THE MARINE TRANSMISSION PUMP TO THE HEAT EXCHANGER INLET. REFER TO HYDRAULIC DIAGRAM.

FLYWHEEL OUTLINE MUST CONFORM TO SAE J620d, No.355

Ø14/-0.2 DRILL THRU, 8 HOLES, EQUALLY SPACED, USE GRADE 5 QUALITY CAPSCREWS PER SAE J489 AND TORQUE TO S574 OR SERVICE MANUAL VALUES.

USE HARDENED FLAT STEEL WASHERS R30N 61 MINIMUM UNDER SCREW HEADS

SECTION E-E

SECONDARY CLUTCH SOLENOID

PRIMARY CLUTCH SOLENOID

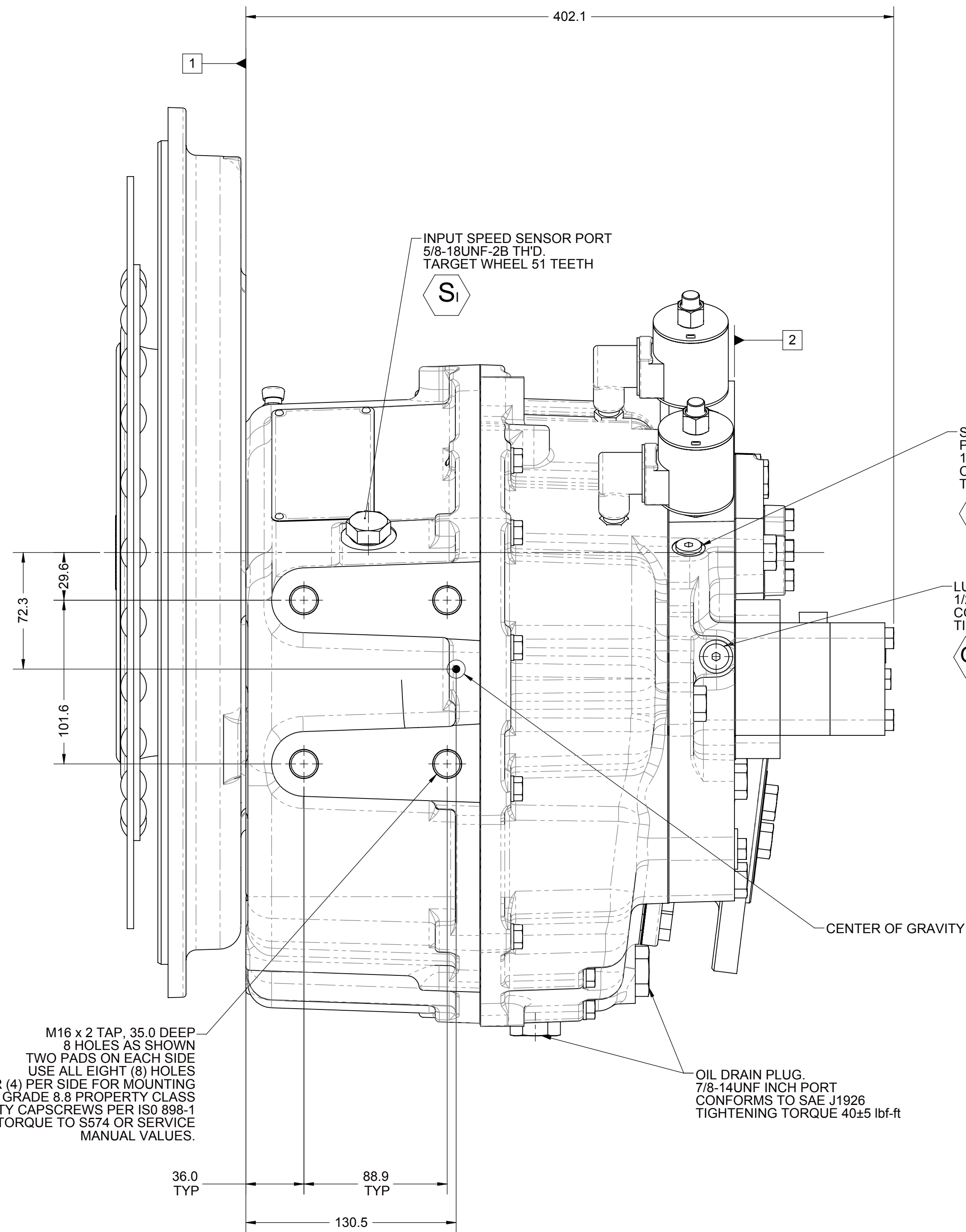
M10 x 1.5 TAP, 21.0 DEEP, 2 HOLES. FOR STANDARD EYE BOLTS. THESE BOLTS MAY BE USED FOR LIFTING MARINE TRANSMISSION ONLY.

OIL FILL PORT
M22X1.5 METRIC PORT

MANIFOLD FACE

SOLENOID CONNECTOR ISO STD PER DIN 43650 (HIRSHMANN) 24 V.D.C.
AMPERAGE DRAW AT 70°F(26°C) 0.72 AMPS.
OPTIONAL 12 V.D.C. SOLENOID
AMPERAGE DRAW AT 70°F(26°C) 1.44 AMPS.

VIEW A-A



SECONDARY CLUTCH PRESSURE PORT
1/2-20 UNF INCH PORT
CONFORMS TO SAE J1926
TIGHTENING TORQUE 15±2 lbf-ft

ZSc

LUBE PRESSURE PORT (SECONDARY)
1/2-20 UNF INCH PORT
CONFORMS TO SAE J1926
TIGHTENING TORQUE 15±2 lbf-ft

GSc

OIL OUT TO HEAT EXCHANGER
3/8-18 NPTF THREAD (DRYSEAL)
CONFORMS TO J476
TIGHTENING TORQUE 7±5 lbf-ft
REMOVE ALUMINIUM THREAD PROTECTOR BEFORE OPERATING UNIT.

QHXO

OIL STRAINER

CENTER OF GRAVITY

E

E

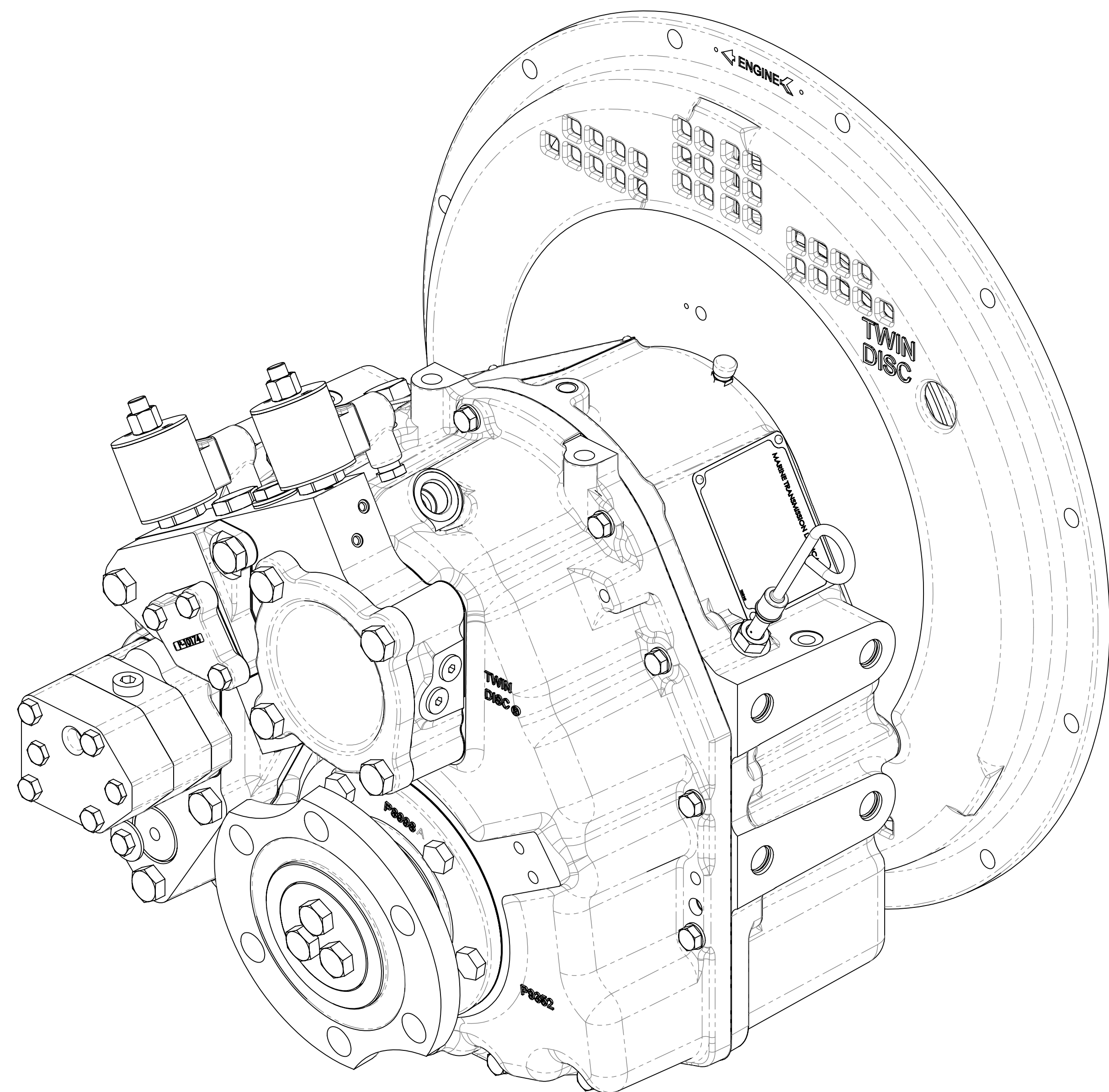
TWIN DISC

TWIN DISC

Ø19.45 DRILL THRU, 6 HOLES, EQUALLY SPACED.

FORWARD WITH R.H. ENGINE DRIVING THRU. PRIMARY CLUTCH.

EQUIPMENT SHOWN:
- MG-5085A PER PX3360B
- SAE #1/SAE 355 VULCAN VKE 3410 SERIES
- ELECTRIC CONTROL VALVE LESS MECHANICAL TROLLING
- SAE #4 OUTPUT FLANGE



MAIN PRESSURE PORT
1/4-18 NPTF GAUGE THREAD (DRYSEAL)
CONFORMS TO SAE J476
TIGHTENING TORQUE 16±2 Nm
CONNECT OIL PRESSURE GAUGE LINE HERE.

X

OIL IN FROM HEAT EXCHANGER
M18x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 34±3 Nm
REMOVE THREAD PROTECTOR BEFORE OPERATING UNIT

QHXI

PRIMARY CLUTCH PRESSURE PORT
1/2-20 UNF INCH PORT
CONFORMS TO SAE J1926
TIGHTENING TORQUE 15±2 lbf-ft

ZPc

LUBE PRESSURE (PRIMARY)
1/2-20 UNF INCH PORT
CONFORMS TO SAE J1926
TIGHTENING TORQUE 15±2 lbf-ft

GPC

BREATHER

OUTPUT SHAFT

FIRST USE ASSEMBLY: SIMILAR TO:	123.00123.00	THIRD ANGLE PROJECTION	MATERIAL:	HEAT TREAT:	DATE: 09/10/2014	SCALE: 1:2	DRAWN BY: MG	CHECKED BY: DV	APPROVED BY: DV	REVISIONS: REV. CHANGE NO. DATE	1
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DESCRIPTION: INSTALLATION MG-5085A										SHEET 1 OF 1	