

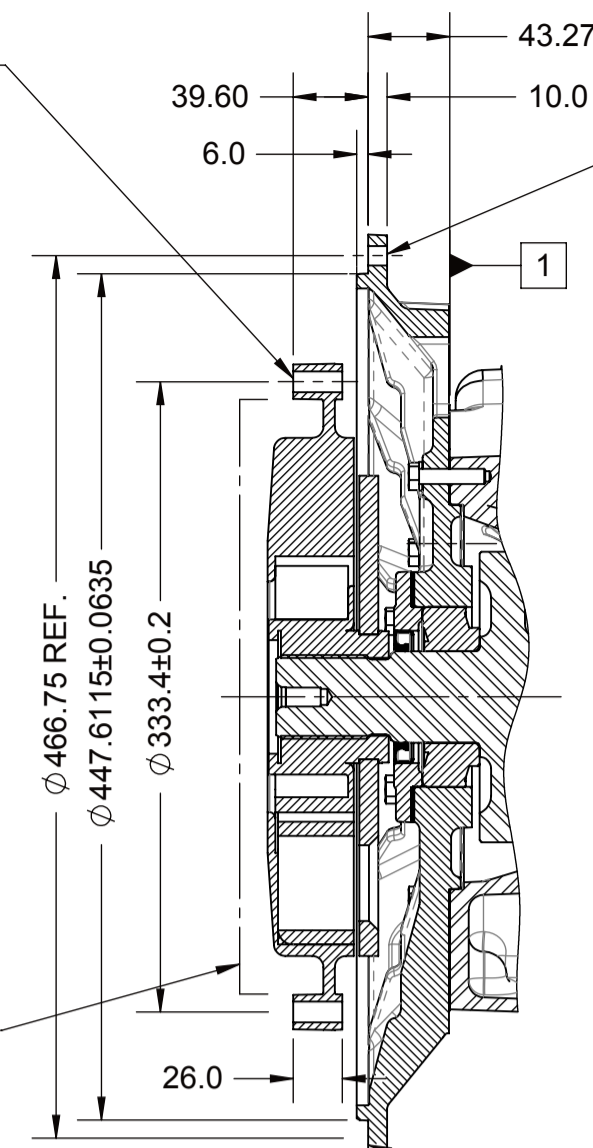
- 1 INPUT GROUP REFERENCE PLANE
- 2 PTO GROUP REFERENCE PLANE
- 3 LEFT MOUNTING BRACKET FACE
- 4 RIGHT MOUNTING BRACKET FACE

Ø 11 DRILL THRU, 8 HOLES EQUALLY SPACED
USE GRADE 8.8 PROPERTY CLASS CAPSCREWS PER ISO 898-1 AND TORQUE TO S574 OR SERVICE MANUAL VALUES

NOTES:

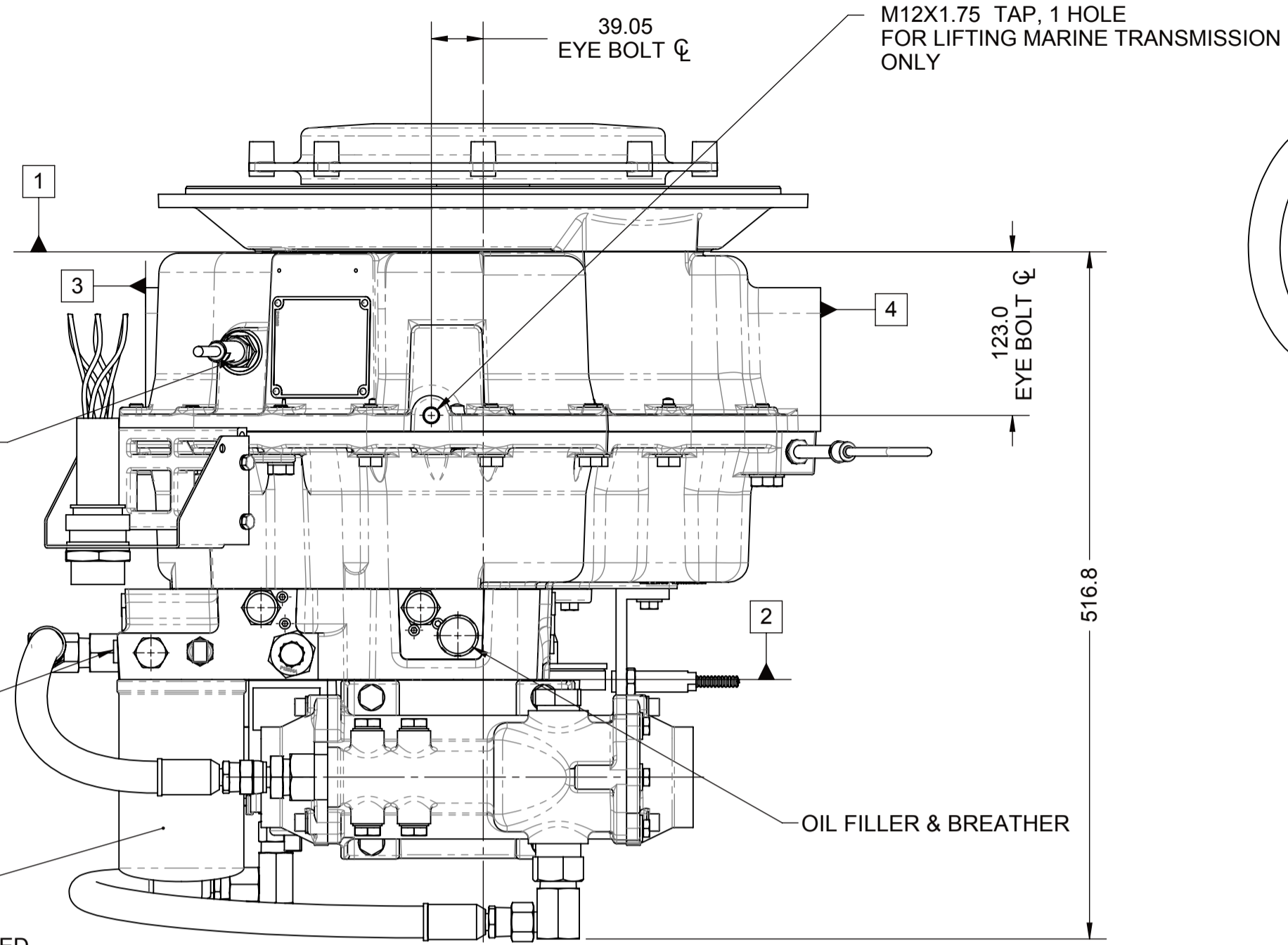
1. PROPORTIONAL CONTROL VALVE OPERATION
 - A. WARNING DO NOT CONNECT VALVE COIL DIRECTLY TO BATTERY/POWER SUPPLY VOLTAGE.
 - B. OPERATION TO BE PERFORMED WITH ONLY TWIN DISC CONTROL SYSTEMS OR MODULES.
2. MANUAL OVERRIDE VALVE OPERATION
 - A. THE MANUAL OVERRIDE FEATURE FOR THE PRIMARY AND SECONDARY SOLENOIDS MUST NEVER BE ENGAGED SIMULTANEOUSLY.
 - B. ROTATE THE MANUAL OVERRIDE SCREW COUNTERCLOCKWISE UNTIL THE SCREWS STOPS FOR THE NEUTRAL POSITION.
 - C. THE MANUAL OVERRIDE SCREWS FOR BOTH THE PRIMARY AND SECONDARY SOLENOIDS MUST BE IN THE NEUTRAL POSITION TO OPERATE THE VALVE UTILIZING THE TWIN DISC CONTROL SYSTEM.
 - D. TO ENGAGE PRIMARY CLUTCH TURN THE PRIMARY OVERRIDE SCREW IN A CLOCKWISE DIRECTION UNTIL THE SCREW STOPS TURNING.
 - E. TO ENGAGE SECONDARY CLUTCH TURN THE SECONDARY OVERRIDE SCREW IN A CLOCKWISE DIRECTION UNTIL THE SCREW STOPS TURNING.

FLYWHEEL OUTLINE MUST CONFORM TO SAE J620, NO.290



SECTION A-A

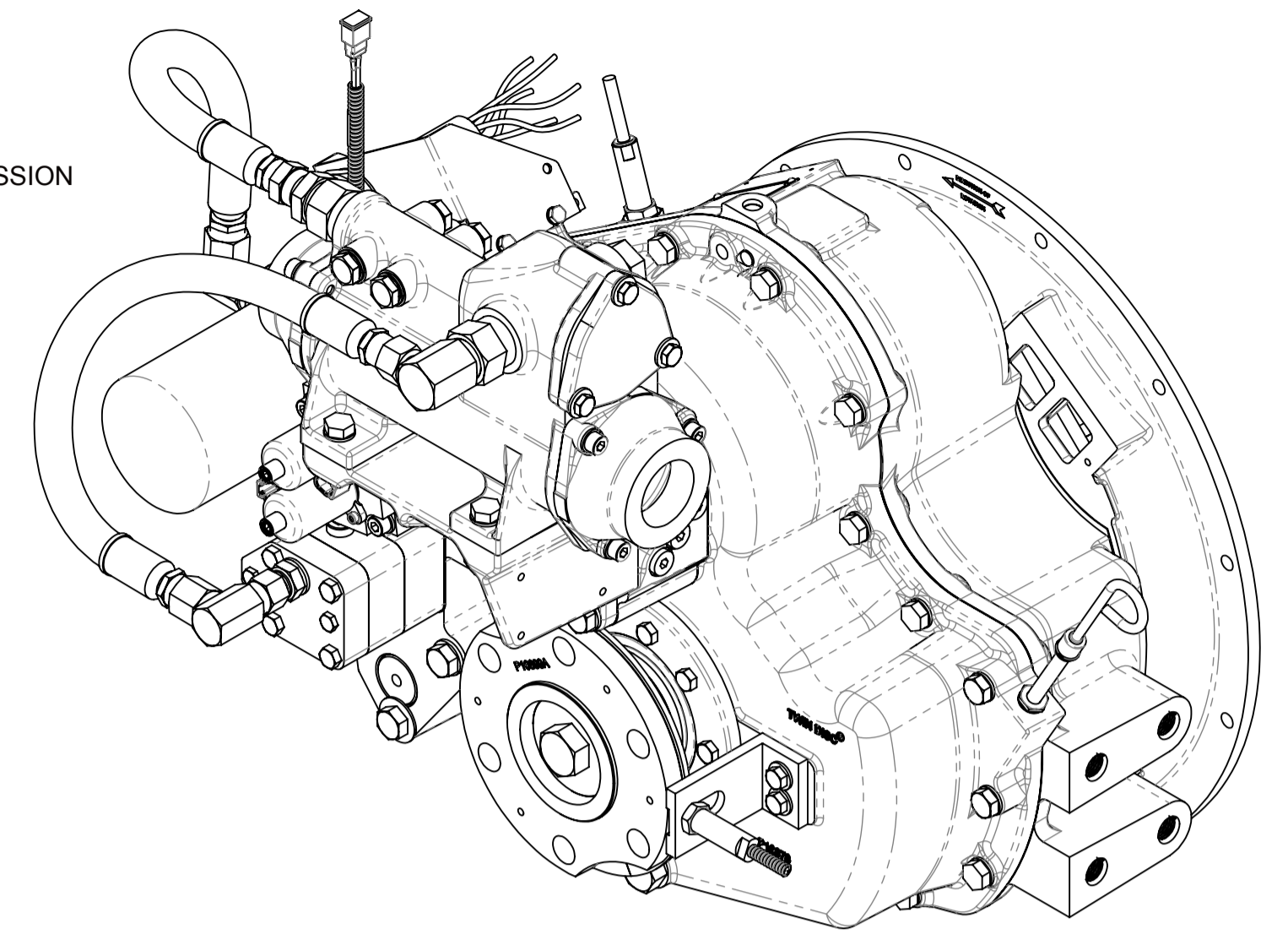
Ø13/32 DRILL THRU, 12 HOLES, EQUALLY SPACED. USE GRADE 8.8 PROPERTY CLASS CAPSCREWS PER ISO 898-1 AND TORQUE PER S574 OR SERVICE MANUAL VALUES.
USE HARDENED FLAT STEEL WASHERS R30N-61 MIN, UNDER SCREW HEADS



INPUT SPEED SENSOR PORT
5/8-18 THREAD,
TARGET WHEEL: 51 TEETH

MAIN PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

OIL FILTER
22.0 mm CLEARANCE REQUIRED TO REMOVE FILTER CANISTER. APPLY OIL TO FILTER GASKET. TIGHTEN FILTER AN ADDITIONAL 2/3 OF TURN AFTER FILTER GASKET MAKES CONTACT



SECONDARY CLUTCH (FIRST) PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

SECONDARY CLUTCH (SECOND) PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

MAIN PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

SECONDARY CLUTCH (SECOND) PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

LUBE PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

M16X2.0 THREAD 33.0 DEEP
8 HOLES. USE ALL (8) HOLES, 4 PER SIDE FOR MOUNTING. USE GRADE 8.8 PROPERTY CLASS CAPSCREWS PER ISO 898-1 AND TORQUE TO S574.

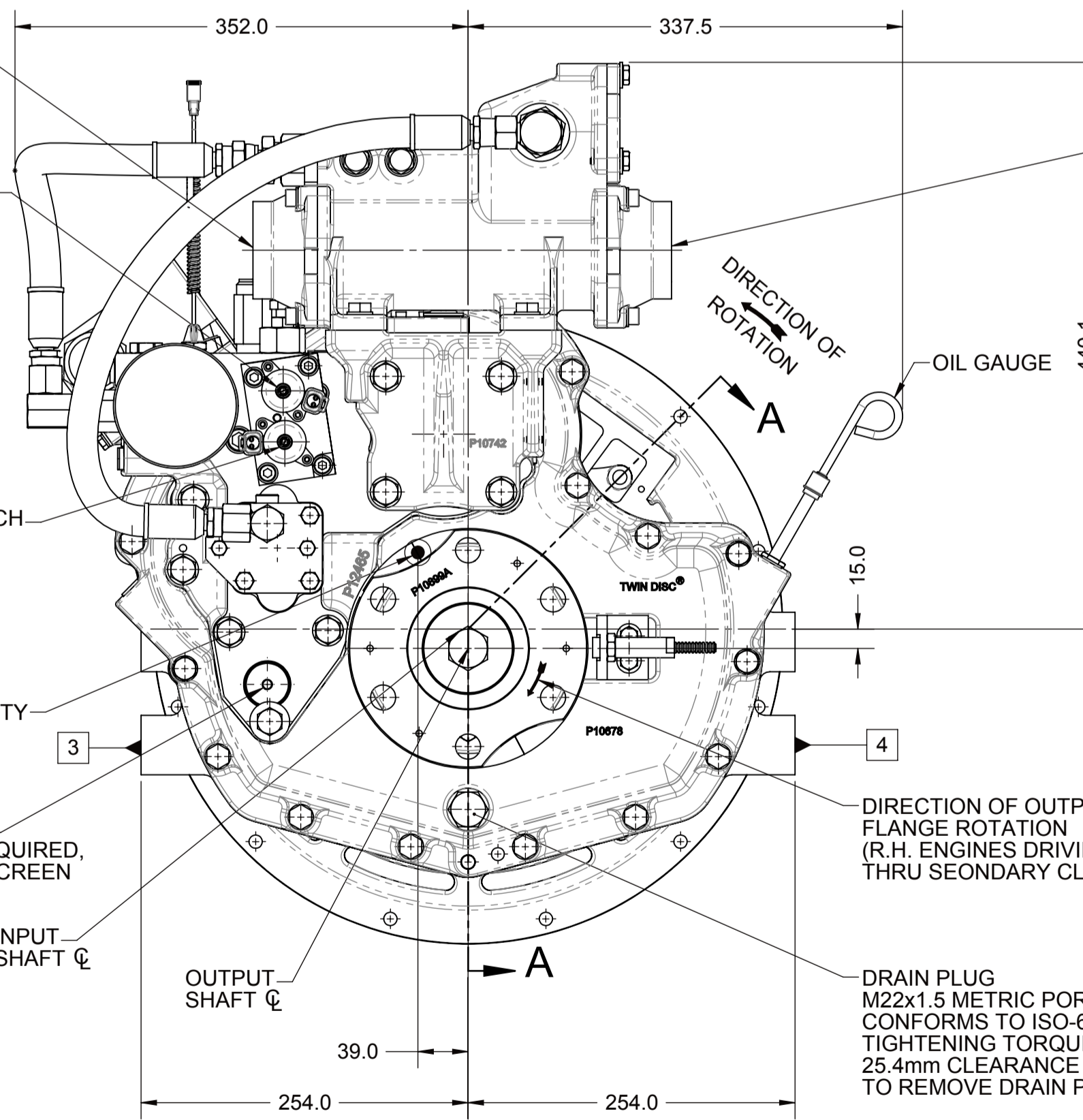
WATER INLET FOR HEAT EXCHANGER
1 1/2-11 BSPP THREAD (G)

ENGAGES PRIMARY CLUTCH
SEE NOTES A & B

ENGAGES SECONDARY CLUTCH
SEE NOTES A & B

CENTER OF GRAVITY

M8X1.25 TAP, 7.5 DEEP
53.3mm CLEARANCE REQUIRED TO REMOVE SUCTION SCREEN



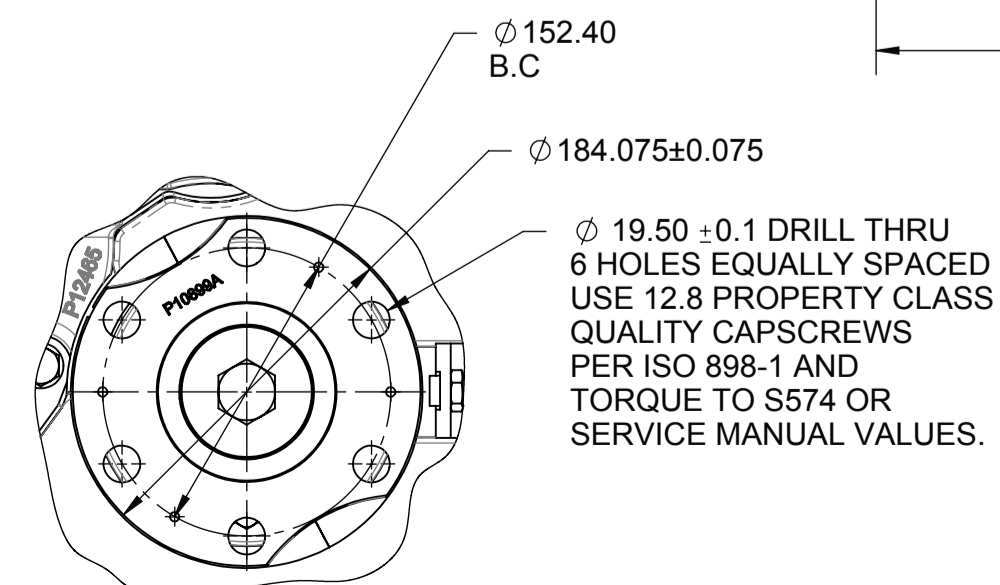
WATER OUTLET FOR HEAT EXCHANGER
1 1/2-11 BSPP THREAD (G)

PRIMARY CLUTCH PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

LUBE PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm

OUTPUT SPEED SENSOR
TARGET WHEEL: 62 TEETH

PRIMARY CLUTCH PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO-6149
TIGHTENING TORQUE 16±1.5 Nm



VIEW B-B

EQUIPMENT SHOWN:

- MGX-5075SC PER PX12620 ASSEMBLY
- SAE #2/SAE 290 CENTA CF-DS-45
- GP VALVE WITH EC300 ADAPTER HARNESS
- PM10685B MOUNTED HEAT EXCHANGER
- SAE #4 OUTPUT FLANGE

FIRST USE ASSEMBLY: PX12620

FIRST USE MODEL: MGX-5075SC

SIMILAR TO:

WEIGHT: 149.58kg

WR: kg-m

THIRD ANGLE PROJECTION

MATERIAL:

HEAT TREAT:

DESCRIPTION:

METRIC

UNLESS OTHERWISE SPECIFIED MACHINED DIMENSIONS

X X ±0.75

X X ±0.25

X X ±0.13

ALL ANGULAR TOLERANCES AT GEOMETRIC TOLERANCING PER ASME Y14.5M 1994

DATE: 03/04/2013

SCALE: 1:4

DRAWN BY: MG

CHECKED BY: ALC

APPROVED BY: ALC

NDWF-03950 10/25/2013

REV CHANGE NO. DATE

TWIN DISC

RACINE, WI 53403 - USA

PX13174

INSTALLATION MGX-5075SC

DWG SIZE: A1

SHEET: 1 OF 1

REV: -

NOTES:

ALL POINTS AVAILABLE FOR TESTING ARE CODED

F

E

D

C

B

A