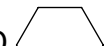
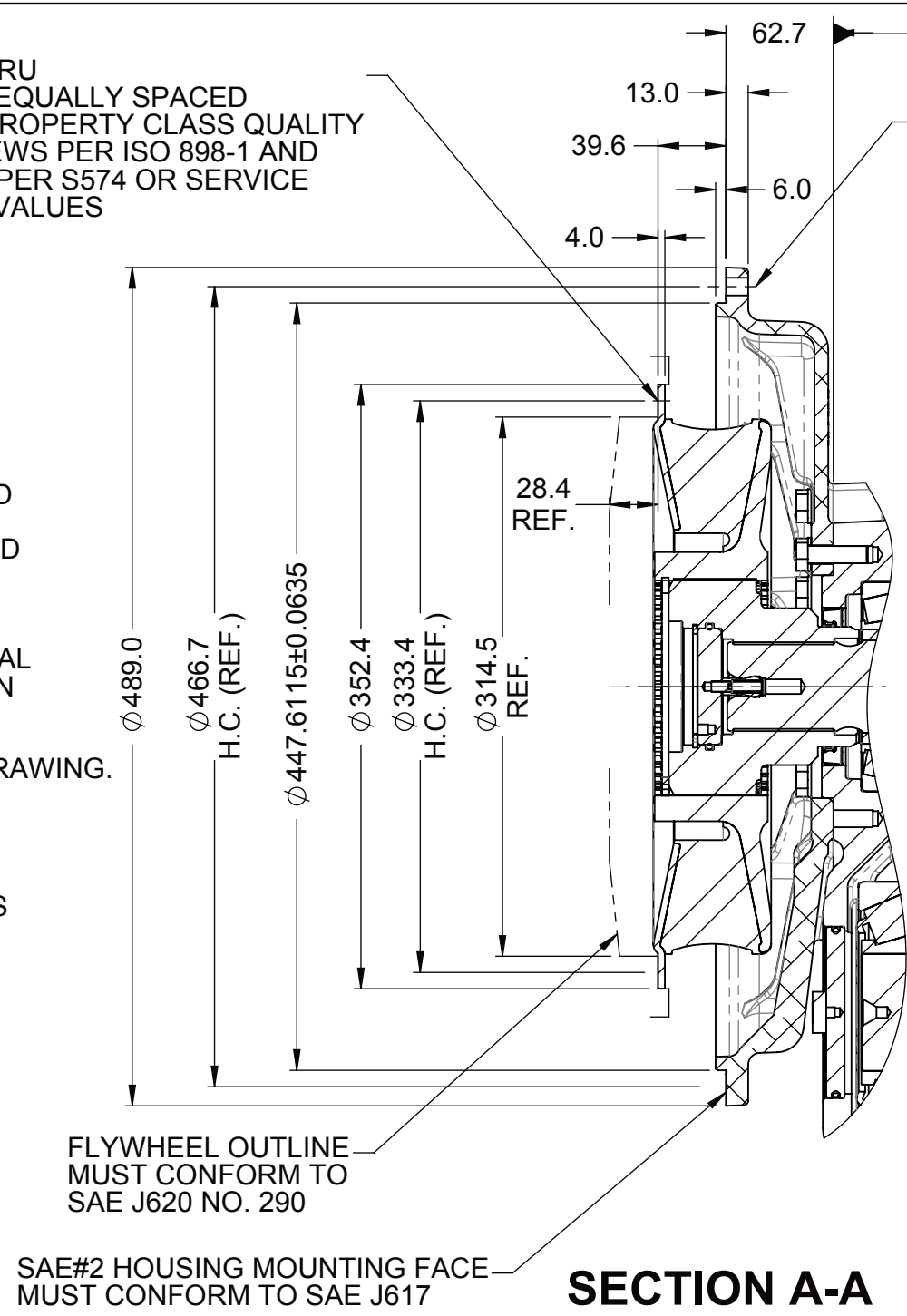


- 1 INPUT GROUP MOUNTING FACE
- 2 PTO GROUP MOUNTING FACE
- 3 LEFT MOUNTING BRACKET FACE
- 4 RIGHT MOUNTING BRACKET FACE

Ø 11.0 THRU  
8 HOLES EQUALLY SPACED  
USE 8.8 PROPERTY CLASS QUALITY  
CAPSCREWS PER ISO 898-1 AND  
TORQUE PER S574 OR SERVICE  
MANUAL VALUES

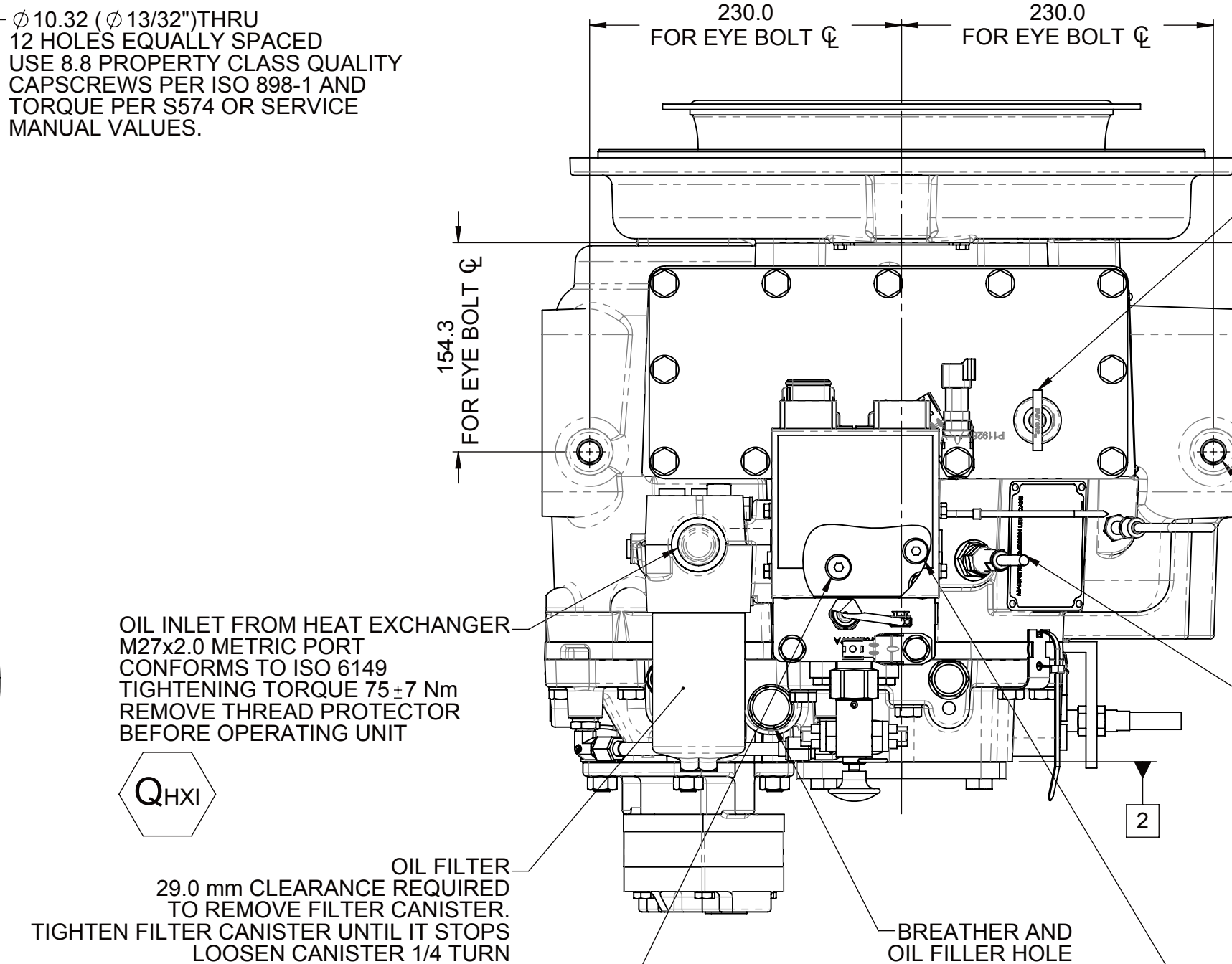
NOTES :

- A. PROPORTIONAL CONTROL VALVE OPERATION.
  - 1. WARNING DO NOT CONNECT VALVE COIL DIRECTLY TO BATTERY/POWER SUPPLY VOLTAGE.
  - 2. OPERATION TO BE PERFORMED WITH ONLY TWIN-DISC CONTROL SYSTEM MODULES.
- B. MANUAL DIRECTIONAL CONTROL VALVE OPERATION.
  - 1. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PUSH TO ENGAGE PRIMARY CLUTCH.
  - 2. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PULL TO ENGAGE SECONDARY CLUTCH.
- C. MANUAL DIRECTIONAL CONTROL VALVE MODE SWITCH.
  - 1. SWITCH IS NORMALLY CLOSED WHEN MANUAL DIRECTIONAL CONTROL VALVE IS IN THE CENTERED POSITION AND OPEN WHEN LEVER IS ACTUATED FROM CENTERED POSITION.
  - 2. CURRENT 1.5 AMPS MAX.
  - 3. FOR WIRING SCHEMATIC, REFER TO CONTROL MODULE DRAWING.
- D. REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND ALARM LEVELS.
- E. UNLESS OTHERWISE SPECIFIED, FASTENER TORQUE VALUES PER S574 STANDARD.
- F. ALL POINTS AVAILABLE FOR TESTING ARE CODED 



## SECTION A-A

- Ø 10.32 (Ø 13/32")THRU  
12 HOLES EQUALLY SPACED  
USE 8.8 PROPERTY CLASS QUALITY  
CAPSCREWS PER ISO 898-1 AND  
TORQUE PER S574 OR SERVICE  
MANUAL VALUES.



OIL FILLER HOLE  
WHEN ENGINE IS NOT RUNNING

M16x2 TAP, 21.0 DEEP, 2 HOLES.  
THESE HOLES MAY BE USED FOR  
STANDARD EYE BOLTS FOR LIFTING  
MARINE TRANSMISSION ONLY

— INPUT SPEED SENSOR  
5/8-18UNF-2B TH'D  
TARGET WHEEL: 53 TEETH

PRIMARY CLUTCH PRESSURE PORT (FIRST)  
M12X1.5 METRIC PORT  
CONFORMS TO ISO 6149  
TIGHTENING TORQUE  $16 \pm 1.5$  Nm

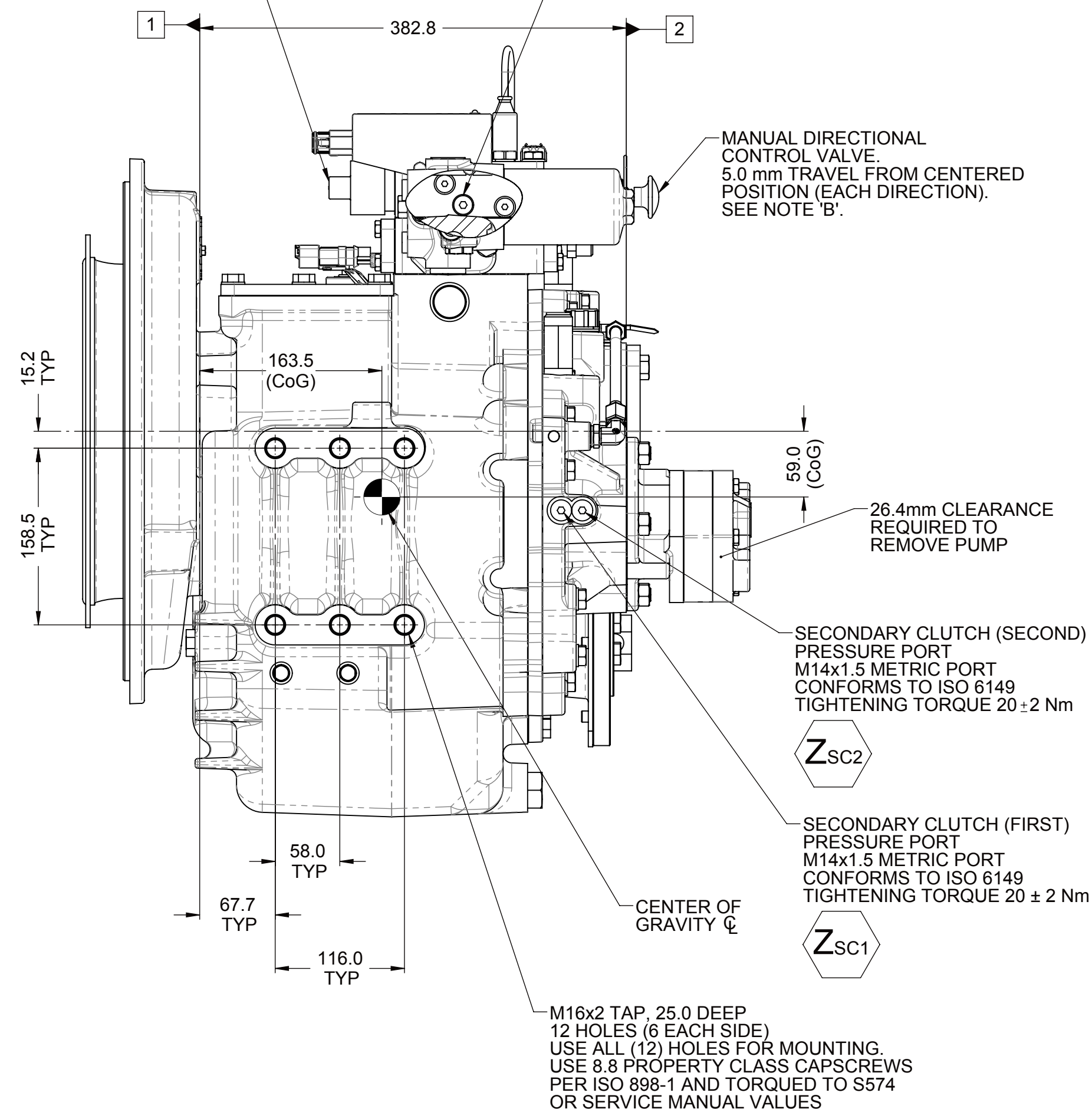
OIL INLET FROM HEAT EXCHANGER  
M27x2.0 METRIC PORT  
CONFORMS TO ISO 6149  
TIGHTENING TORQUE 75±7 Nm  
REMOVE THREAD PROTECTOR  
BEFORE OPERATING UNIT

OIL FILTER  
29.0 mm CLEARANCE REQUIRED  
TO REMOVE FILTER CANISTER.  
TIGHTEN FILTER CANISTER UNTIL IT STOPS  
LOOSEN CANISTER 1/4 TURN

SECONDARY CLUTCH (FIRST) —  
PRESSURE PORT  
M12x1.5 METRIC PORT  
CONFORMS TO ISO 6149  
TIGHTENING TORQUE  $16 \pm 1.5$  Nm

- SECONDARY CLUTCH (FIRST)  
 PRESSURE PORT  
 M12x1.5 METRIC PORT  
 CONFORMS TO ISO 6149  
 TIGHTENING TORQUE  $16 \pm 1.5$  Nm

ENGAGES SECONDARY  
SHAFT CLUTCH.  
SEE NOTE 'A'.



PRIMARY LUBE PRESSURE PORT  
M14x1.5 METRIC PORT  
CONFORMS TO ISO 6149  
TIGHTENING TORQUE 20±2 Nm

PRIMARY  
CLUTCH SHAFT  $\mathcal{C}$

SECONDARY LUBE PRESSURE PORT —  
M14x1.5 METRIC PORT  
CONFORMS TO ISO 6149  
TIGHTENING TORQUE 20 ± 2 Nm

LUBE PRESSURE PORT—  
M14x1.5 METRIC PORT  
CONFORMS TO ISO 6149  
AFTER HEAT EXCHANGER  
TIGHTENING TORQUE 20 ± 2 Nm

SECONDARY  
CLUTCH SHAFT C

OIL OUTLET TO HEAT EXCHANGER —  
M27x2.0 METRIC PORT  
CONFORMS TO ISO 6149  
TIGHTENING TORQUE 75 ± 7 Nm  
REMOVE THREAD PROTECTOR  
BEFORE OPERATING UNIT

OIL STRAINER—  
M6x1 TAP 6.0 DEEP  
90.2mm CLEARANCE REQUIRED  
TO REMOVE SUCTION SCREEN

**DRAIN PLUG—**  
M27x2 METRIC PORT  
CONFORMS TO ISO-6149  
TIGHTENING TORQUE 75±7 Nm  
19.0mm CLEARANCE REQUIRED  
TO REMOVE DRAIN PLUG


4 DIRECTION OF OUTPUT  
FLANGE ROTATION  
(R.H. ENGINES DRIVING  
THRU PRIMARY CLUTCH)

—  $\varnothing 20.2 \pm 0.1$  DRILL THRU,  
6 HOLES  
EQUALLY SPACED.  
USE GRADE 5 QUALITY  
PER SAE J429 AND TOR  
OR SERVICE MANUAL V

—  $\varnothing 152.4$   
(REF.) H.C.

FIRST USE ASSEMBLY:  
FIRST USE MODEL:  
SIMILAR TO:

**METRIC**  
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|                   |                   |   |                           |
|-------------------|-------------------|---|---------------------------|
| WEIGHT:           | 210 kg            |  | THIRD ANGLE<br>PROJECTION |
| WR <sup>2</sup> : | kg·m <sup>2</sup> |   |                           |

|         |              |
|---------|--------------|
| LE<br>N | MATERIAL:    |
|         | HEAT TREAT:  |
|         | DESCRIPTION: |

MGX-5095SC

|              |           |
|--------------|-----------|
| DATE:        | 1/17/2019 |
| SCALE:       | 1:4       |
| DRAWN BY:    | LT        |
| CHECKED BY:  | DV        |
| APPROVED BY: | DV        |

The image shows the Twin Disc logo, which consists of the words "TWIN DISC" in white capital letters inside a red oval. Below the logo, the text "RACINE, WI 53403 - USA" is printed. To the right of the logo, the part number "PX13023D" is displayed in large, bold, black capital letters. At the bottom of the image, there is a table with three columns: "DWG SIZE:", "SHEET:", and "REV:". The values in the table are "A1", "1 OF 1", and "-" respectively.

|           |        |      |
|-----------|--------|------|
| DWG SIZE: | SHEET: | REV: |
| A1        | 1 OF 1 | -    |

**EQUIPMENT SHOWN:**  
 - MGX-5095SC PER PX12480A  
 - SAE #2/SAE 290 VULKAN VKE-4010 SERIES  
 - GP VALVE - W/E-TROLL VOLVO EVC-E3 MODULE

F

E

D

C

B

A

1

2

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4

5