1 ENGINE MOUNTING FACE

2 PTO ADAPTER MOUNTING FACE

3 LEFT MOUNTING BRACKET FACE

4 RIGHT MOUNTING BRACKET FACE

5 PUMP MOUNTING FACE

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 SYSTEMS OR MODULES.

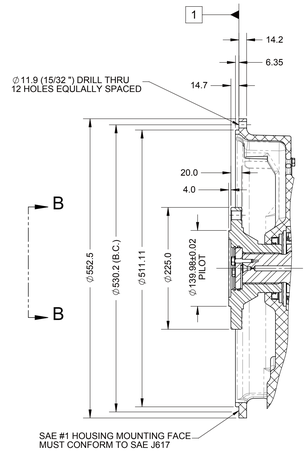
B. MANUAL DIRECTIONAL CONTROL VALVE OPERATION
1. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PUSH TO ENGAGE PRIMARY CLUTCH.
2. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PULL TO ENGAGE SECONDARY CLUTCH.

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 = 20 AMP MAX.
3. FOR WIRING SCHEMATIC, REFER TO CONTROL MODULE DRAWING.

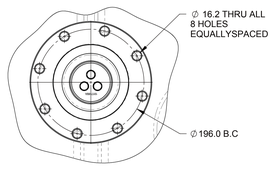
D. PTO VALVE MANUAL OVERRIDE OPERATION
1. THE MANUAL OVERRIDE BUTTON MUST BE IN THE NEUTRAL POSITION TO OPERATE SOLENOID ELECTRICALLY.
2. TO ENGAGE HYDRAULIC PTO CLUTCH USING THE MANUFAL OVERRIDE:
a. REMOVE PROTECTIVE CAP FROM THE HYDRAULIC PTO SOLENOID.
b. PUSH BUTTON DOWN.
c. CONTINUE TO PUSH BUTTON AND ROTATE CLOCKWISE 180°.
d. RELEASE BUTTON.
3. TO RETURN HYDRAULIC PTO MANUAL OVERRIDE TO THE NEUTRAL POSITION:
a. PUSH BUTTON DOWN.
b. CONTINUE TO PUSH BUTTON AND ROTATE COUNTERCLOCKWSE 180°.
c. RELEASE BUTTON.
d. INSTALL PROTECTIVE CAP OVER THE MANUAL OVERRIDE BUTTON

NOTES:

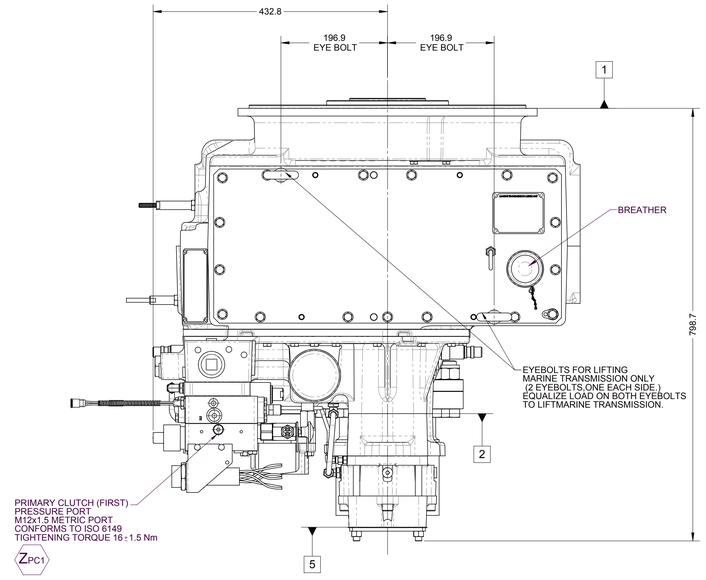
- REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND TEMPERATURE ALARM LEVELS.
- UNLESS OTHERWISE SPECIFIED FASTENER TORQUE VALUES PER S574 STANDARD.
- ALL POINTS AVAILABLE FOR TESTING ARE CODED

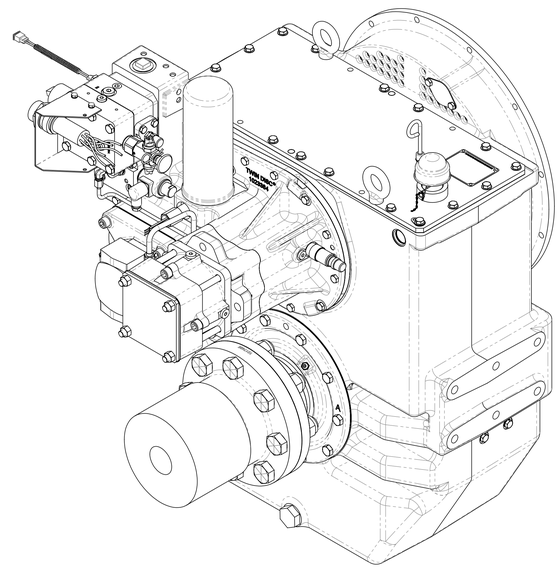


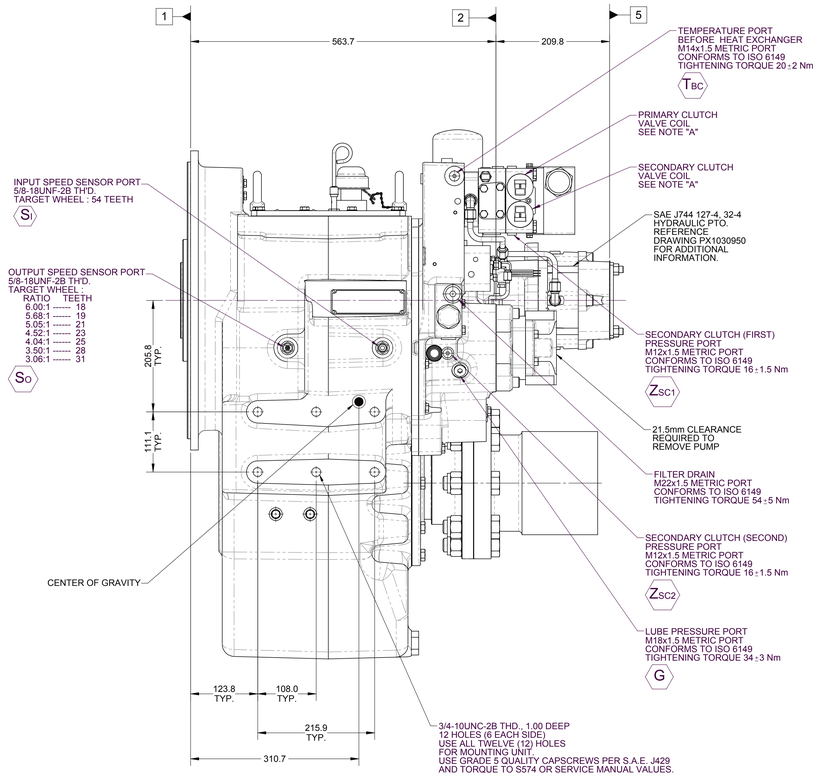
SECTION A-A

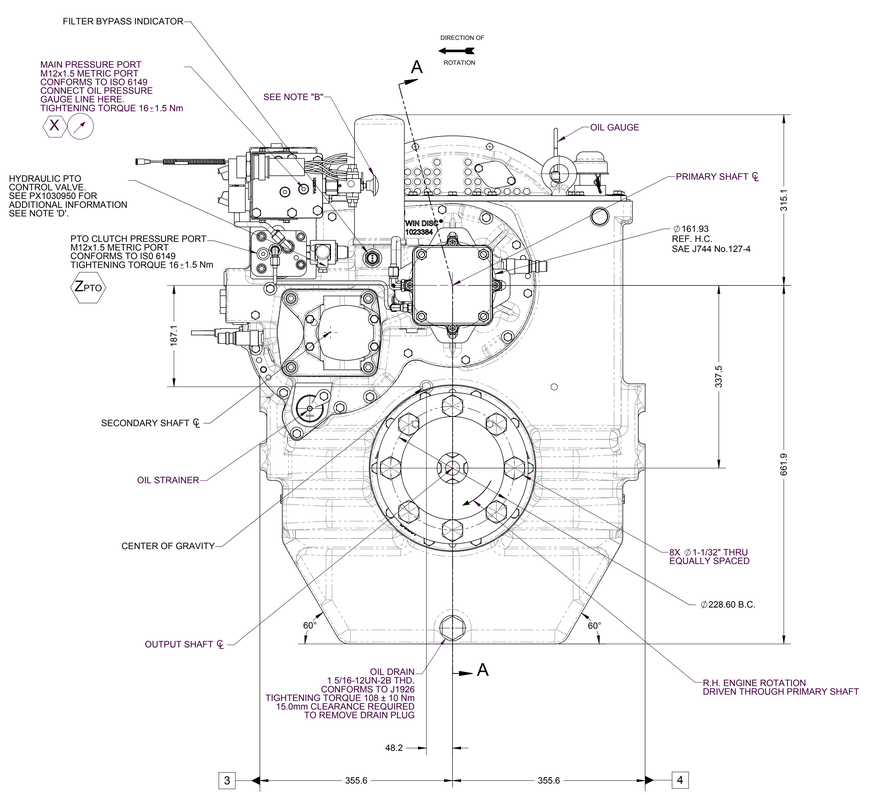


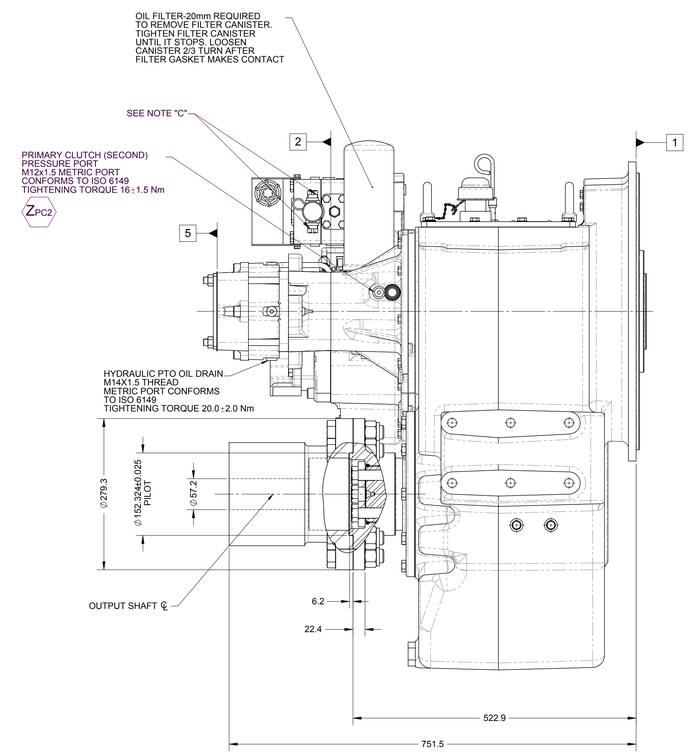
VIEW B-B











EQUIPMENT SHOWN:
- MGX-516 PER 1023380
- SAE #1 / FREESTANDING GWB 587.50 INPUT FLANGE
- GP VALVE WITH EC300 WIRING HARNESS
- SAE 127-4, 32-4 HYDRAULIC PTO
- 1017494 OUTPUT COMPANION FLANGE

REV	CHANGE NO.	DATE
-	NDWF-3000107	08/09/2016

FIRST USE ASSEMBLY:
FIRST USE MODEL: MGX-516
SIMILAR TO:
WEIGHT: kg
WR²: kg-m²
METRIC
NOTICE: THIS PRINT CONTAINS PROPRIETARY INFORMATION AND IS NOT TO BE USED, REPRODUCED OR DISCLOSED EXCEPT AS AUTHORIZED BY **TWIN DISC, INCORPORATED**. THIS NOTICE SHALL BE CONSIDERED AS A LIMIT RIGHTS, GRANTED TO THE U.S. GOVERNMENT OR OTHERS BY CONTRACT.
THIRD ANGLE PROJECTION
UNLESS OTHERWISE SPECIFIED MACHINED DIMENSIONS
X ±0.25
X.XX ±0.13
X.XXX ±0.13
ALL ANGULAR TOLERANCES ±1° GEOMETRIC TOLERANCING PER ASME Y14.5M 1994
MATERIAL:
HEAT TREAT:
DESCRIPTION: INSTALLATION MARINE, MGX-516
DATE: 07/18/2016
SCALE: 1:4
DRAWN BY: L T
CHECKED BY: DV
APPROVED BY: DV
TWIN DISC
RACINE, WI 53403 - USA
1026197G
DWG SIZE: A0
SHEET: 1 OF 1
REV: -
1026420W Rev. A

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8 7 6 5 4 3 2 1