

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

Ø13.5 DRILL THRU
8 HOLES EQUALLY SPACED
USE GRADE 8.8 PROPERTY CLASS
SCREWS PER ISO 898-1 AND
TORQUE PER S574 TO 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 CENTERED POSITION AND OPEN WHEN LEVER IS ACTUATED FROM CENTERED POSITION
2. CURRENT = 20 AMP MAX.
3. FOR WIRING SCHEMATIC REFER TO CONTROL DRAWING

D. UNLESS OTHERWISE SPECIFIED FASTENER TORQUE VALUES AS PER S574 STANDARD

E. ALL POINTS AVAILABLE FOR TESTING CODED

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

FLYWHEEL OUTLINE
MUST CONFORM TO
SAE J620 NO. 355

SAE#1 HOUSING
MOUNTING FACE
MUST CONFORM
TO SAE J617

TEMPERATURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm

T_{AC}

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

X

SECTION C-C

SECTION A-A

SECONDARY SOLENOID
ENGAGES CLUTCH ON
THE SECONDARY SHAFT
SEE NOTE A

PRIMARY SOLENOID
ENGAGES CLUTCH ON
THE PRIMARY SHAFT
SEE NOTE A

SECONDARY CLUTCH
PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5 Nm

Z_{SC}

MAIN PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
CONNECT OIL PRESSURE
GAUGE LINE HERE.
TIGHTENING TORQUE 16±1.5 Nm

X

2X M16X2.0 - 6H ∇ 32.0
USED FOR LIFTING MARINE
TRANSMISSION ONLY.
EQUALIZE LOADS ON TAPPED
HOLES TO LIFT MARINE
TRANSMISSION

INPUT SPEED SENSOR PORT
5/8-18UNF-2B TH'D.
TARGET WHEEL 54 TEETH

S_i

OIL LEVEL GAUGE

OIL FILL PORT
M22 x 1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 54 ±5Nm

PRIMARY CLUTCH
PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5 Nm

Z_{PC}

PRIMARY CLUTCH(SECOND)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm

Z_{PC2}

PRIMARY CLUTCH(FIRST)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm

Z_{PC1}

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

G

PRIMARY CLUTCH(FIRST)
ACTUATING PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5 Nm

Z_{PC1}

SEE NOTE "C"
MANUAL DIRECTIONAL
CONTROL VALVE
5 mm TRAVEL FROM CENTERED
POSITION (EACH DIRECTION)
SEE NOTE "B"

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

21.3 mm CLEARANCE
REQUIRED TO
REMOVE PUMP

SECONDARY CLUTCH(SECOND)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm

Z_{SC2}

SECONDARY CLUTCH(FIRST)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm

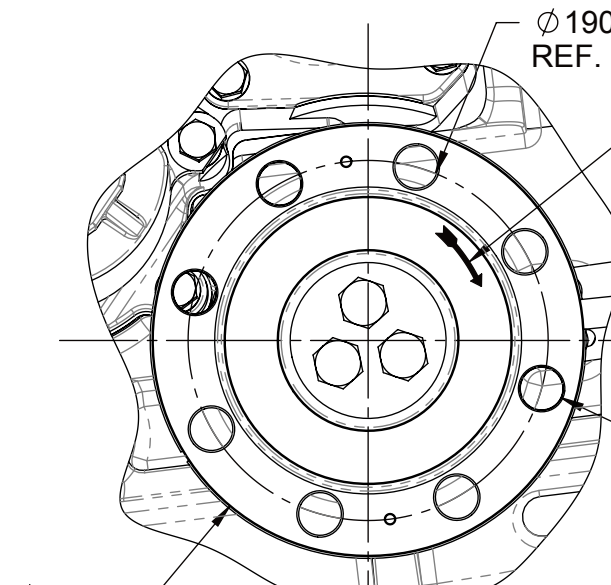
Z_{SC1}

M16X2.0 -6H TAP ∇ 24.0
12 HOLES (6 EACH SIDE)
USE ALL 12 HOLES
FOR MOUNTING UNIT.
USE GRADE 8.8 PROPERTY CLASS
CAPSCREWS PER ISO 898-1
AND TORQUE TO S574.

CENTER OF
GRAVITY

OIL STRAINER—
M12x1.75 THREAD, 12.0 DEEP
100 mm CLEARANCE REQUIRED
TO REMOVE OIL STRAINER

OIL DRAIN PLUG
M33x2.0 THREAD
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88 ±8 Nm
15 mm CLEARANCE REQUIRED
TO REMOVE PLUG



VIEW B-B

EQUIPMENT SHOWN:

- MGX-5126A PER PX12870 ASSEMBLY
- SAE #1/SAE 355 CF-R-268-HR
- EC300 HARNESS (SPD & TEMP SENS)
- MOUNTED FILTER ASSEMBLY

FIRST USE ASSEMBLY: PX12870

FIRST USE MODEL: MGX-5126A

SIMILAR TO:

WEIGHT: 241.35_{kg}

WR: _{kg m}

THIRD ANGLE
PROJECTION

MATERIAL:

HEAT TREAT:

UNLESS OTHERWISE SPECIFIED
MACHINED DIMENSIONS
X X
X X
X X
ALL ANGULAR TOLERANCES ±1°
GEOMETRIC TOLERANCING
PER ASME Y14.5M 1994

METRIC

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DESCRIPTION:

INSTALLATION
MGX-5126A

DATE:

02/10/2016

SCALE:

1:4

DRAWN BY:

PM

CHECKED BY:

JMF

APPROVED BY:

JMF

NDWF-06494 02/10/2016

REV CHANGE NO. DATE

TWIN DISC

RACINE, WI 53403 - USA

1026597C

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

1025420W Rev. A