
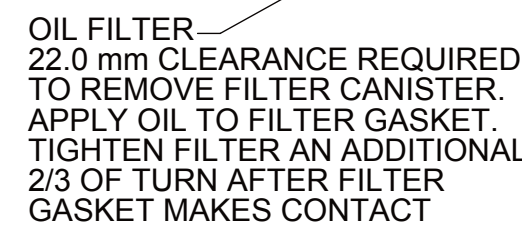


- A. PROPORTIONAL CONTROL VALVE OPERATION
 - 1. WARNINGS DO NOT CONNECT VALVE COIL DIRECTLY TO BATTERY (POWER SUPPLY) VOLTAGE
 - 2. OPERATION TO BE PERFORMED WITH ONLY TWIN DISC CONTROL SYSTEMS OR MODULES.
- B. MANUAL OVERRIDE VALVE OPERATION
 - 1. THE MANUAL OVERRIDE FEATURE FOR THE PRIMARY AND SECONDARY SOLENOIDS MUST NEVER BE ENGAGED SIMULTANEOUSLY.
 - 2. ROTATE THE MANUAL OVERRIDE SCREW COUNTER-CLOCKWISE UNTIL THE SCREWS STOPS FOR THE NEUTRAL POSITION
 - 3. THE MANUAL OVERRIDE SCREWS FOR BOTH THE PRIMARY AND SECONDARY SOLENOIDS MUST BE IN THE NEUTRA POSITION TO OPERATE THE VALVE UTILIZING THE TWIN DISC CONTROL SYSTEM
 - 4. TO ENGAGE PRIMARY CLUTCH TURN THE PRIMARY OVERRIDE SCREW IN A CLOCKWISE DIRECTION UNTIL THE SCREW STOPS TURNING
 - 5. TO ENGAGE SECONDARY CLUTCH TURN THE SECONDARY OVERRIDE SCREW IN A CLOCKWISE DIRECTION UNTIL THE SCREW STOPS TURNING.
- C. UNLESS OTHERWISE SPECIFIED, FATSNER TORQUE VALUES AS PER S574 STANDARD.
- D. ALL POINTS AVAILABLE FOR TESTING ARE CODED 
- E. REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND TEMPERATURE ALARM LEVELS.



PORT
METRIC PORT

MANUAL OVERRIDE



INPUT SPEED SENSOR PORT
5/8-18UNF-2B TH'D.
TARGET WHEEL 51 TEETH

CENTER OF GRAVITY

M16X2 TAP ∇ 35.0
8 HOLES AS SHOWN.
TWO PADS ON EACH SIDE
USE ALL EIGHT(8) HOLES
FOUR(4) PER SIDE FOR MOUNTING.
USE GRADE 8.8 PROPERTY CLASS
QUALITY CAPSCREWS PER ISO 898
AND TORQUE TO S574 OR SERVICE
MANUAL VALUES.

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

MOUNT GAGE IN PILOT HOUSE.
PRESSURE GAGE LINE LOCATION.
1/4-18 NPTF GAUGE THREAD (DRYSEAL
REMOVE THREAD PROTECTOR
BEFORE OPERATING UNIT

SUMP DRAIN PLUG.
7/8-14UNF INCH PORT
CONFORMS TO SAE J1926
TIGHTENING TORQUE 40 ± 5 lbf-ft
13.0 mm CLEARANCE REQUIRED
TO REMOVE DRAIN PLUGS.



ENGAGES SECONDARY CLUTCH
SEE NOTES A & B

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

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

OIL INLET FROM HEAT EXCHANGER
1/2-14 NPTF THEAD (DRYSEAL)
REMOVE THREAD PROTECTOR
BEFORE OPERATING UNIT.

☒ OIL PUMP OUTLET TO HEAT EXCHANGER
3/8-18 NPTF THREAD (DRYSEAL)
CONFORMS TO J476
TIGHTENING TORQUE 27 ± 3 lbf-ft.
REMOVE ALUMINIUM THREAD PROTECTOR
BEFORE OPERATING UNIT.

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

OIL STRAINER

CENTER OF GRAVITY

Ø10.3 THRU
12 HOLES
EQUALLY SPACED

(continued)

OUTPUT SPEED
SENSOR BRACKET
TARGET WHEEL: 62 TEETH

S_o

FOR AHEAD PROPULSION
WITH R.H. ENGINE DRIVING
THRU PRIMARY SHAFT.

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

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

BREATHE


[illegible]


4

2

1

FIRST USE ASSEMBLY:	WEIGHT: 106.8
FIRST USE MODEL: MGX-5065A	
SIMILAR TO:	WR ² : N
<h1>METRIC</h1> <p>NOTICE! THIS PRINT CONTAINS PROPRIETARY INFORMATION AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF TWIN DISC, INCORPORATED</p> <p>THIS NOTICE IS NOT INTENDED TO WAIVE OR LIMIT RIGHTS GRANTED TO THE U.S. GOVERNMENT OR OTHERS BY CONTRACT</p>	

3kg X mm	 THIRD ANGLE PROJECTION	MATERIAL
		HEAT TREAT
5 of	UNLESS OTHERWISE SPECIFIED MACHINED DIMENSIONS X ± 0.75 XX ± 0.25 XXX ± 0.13 ALL ANGULAR TOLERANCES $\pm 1^\circ$ GEOMETRIC TOLERANCING PER ASME Y14.5M 1994	DESCRIPTION

DATE: 02/17/2016			
SCALE: 1:2			
DRAWN BY: PM		RACINE, WI 53403 - USA	
CHECKED BY: DV		1026215B	
APPROVED BY: DV			
DWG SIZE: A0		SHEET: 1 OF 1	REV: -