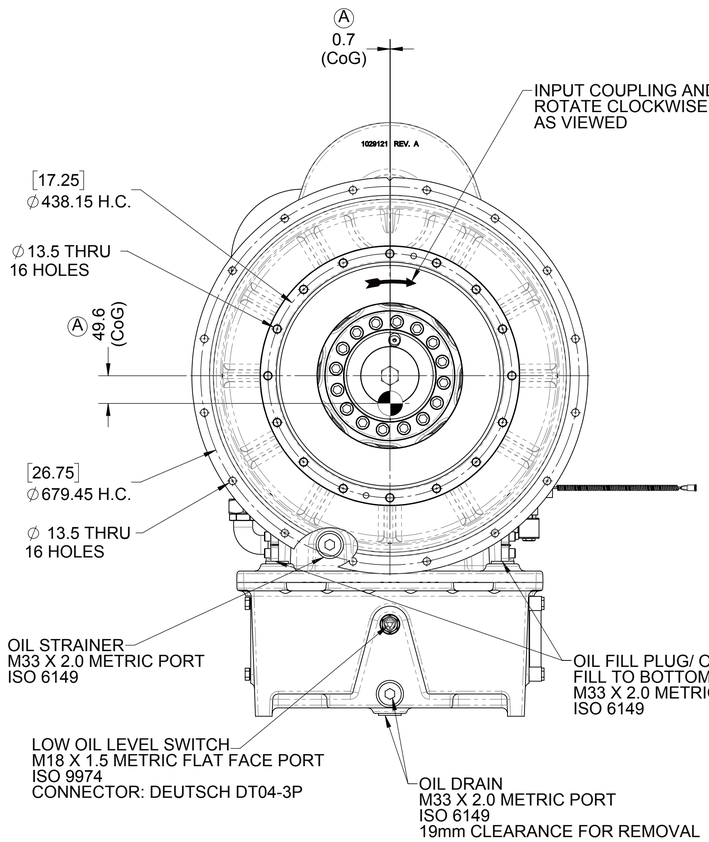
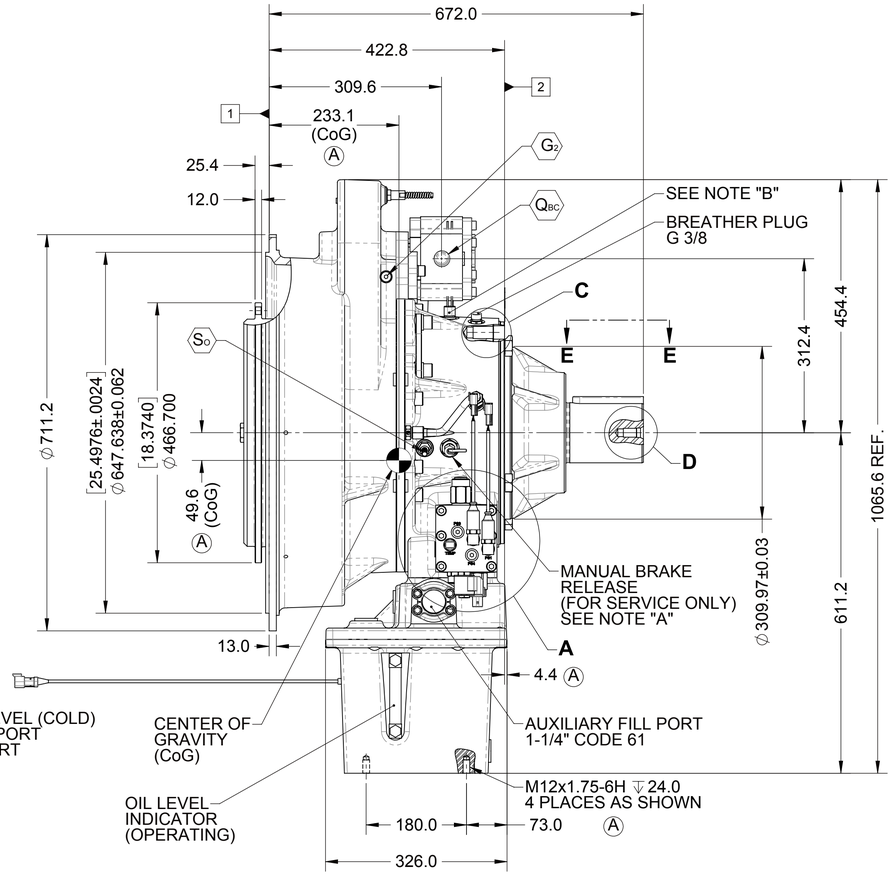
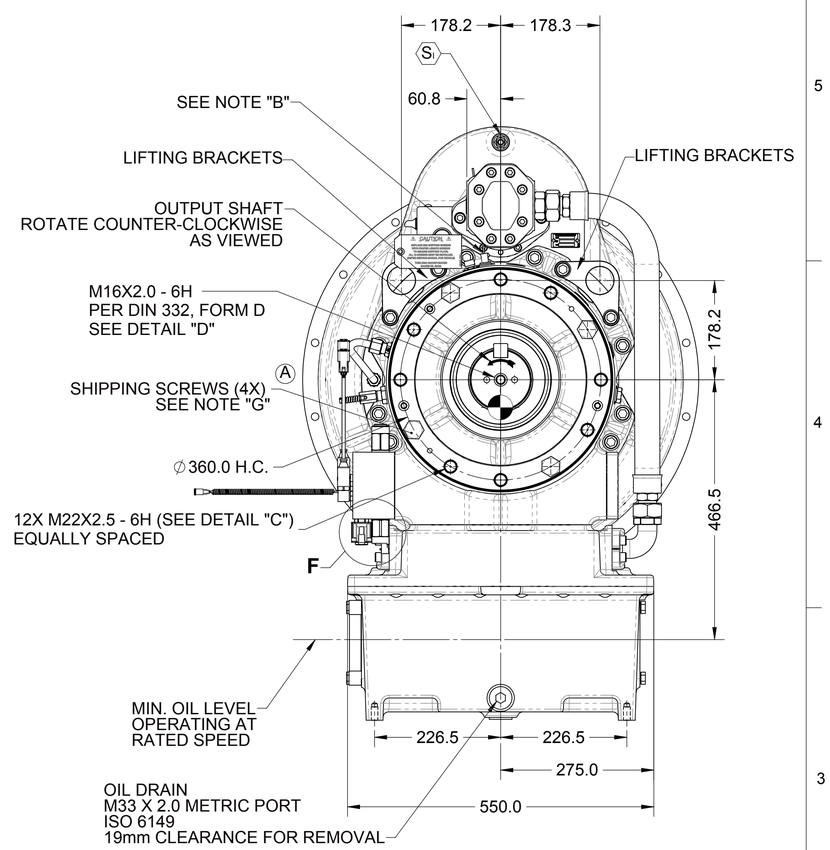






A

NOTES:

A. MANUAL BRAKE RELEASE:
SEE DETAIL 'B' AND DIAGRAM

B. MANUAL BRAKE RELEASE SWITCH:
SWITCH IS NORMALLY CLOSED
WHEN MANUAL BRAKE RELEASE IS 'ENGAGED'

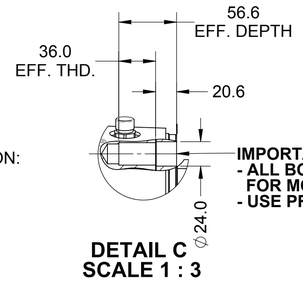
C. PROPORTIONAL CONTROL VALVE AND SOLENOID OPERATION:
1. WARNING DO NOT CONNECT VALVE COIL DIRECTLY TO BATTERY/ POWER SUPPLY VOLTAGE.
2. OPERATION TO BE PERFORMED WITH ONLY TWIN DISC CONTROL SYSTEMS OR MODULES

D. ALL POINTS AVAILABLE FOR TESTING ARE CODED ⬡.

E. ALL PLUGS AND TEST PORTS ⬡ TO BE TORQUED PER S574 O-RING PORT SPECIFICATIONS (SEE OWNER'S MANUAL)

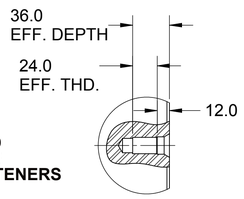
F. REFER TO MANUAL FOR RECOMMENDED OIL, CHECKING, AND MAINTENANCE PROCEDURES

G. REPLACE M22 SHIPPING SCREWS (4X) WITH PROPER LENGTH SCREWS TO SECURE SUPPORT PLATE. REFER SERVICE MANUAL FOR DETAILS.

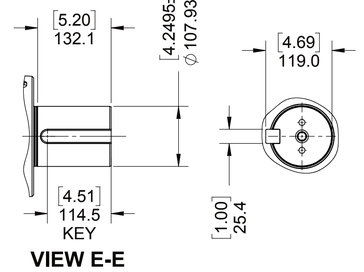


IMPORTANT:
- ALL BOLT HOLES MUST BE USED FOR MOUNTING SUPPORT PLATE
- USE PROPERTY CLASS 10.9 FASTENERS

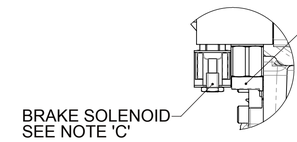
DETAIL C
SCALE 1 : 3



DETAIL D
SCALE 1 : 3

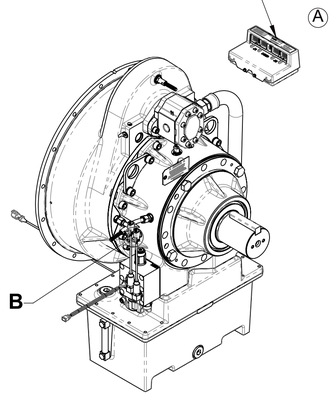


VIEW E-E



DETAIL F
SCALE 1 : 3

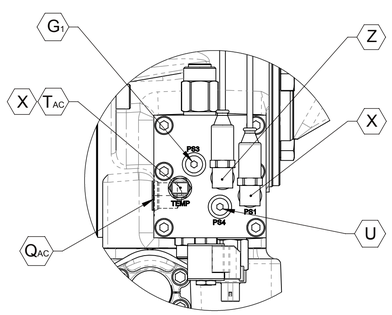
REMOTE MOUNTED
ELECTRONIC CONTROLLER &
BRACKET (SHIPPED LOOSE)
SEE INSTALLATION DRAWINGS:
CONTROLLER : PX1040894,
BRACKET : PX1037967



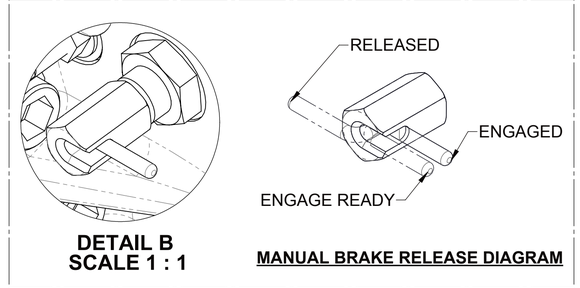
[1] INPUT MOUNTING FACE AND REFERENCE PLANE

[2] SUPPORT PLATE MOUNTING FACE

TEST PORTS					
SYMBOL	DESCRIPTION	PORT/ STANDARD	DESCRIPTION	CLEARANCE FOR REMOVAL (mm)	ELECTRICAL CONNECTION
G_1	LUBE	M12 X 1.5 / ISO 6149	O-RING PORT	11.5	-
G_2	LUBE	M14 X 1.5 / ISO 9974	FLAT FACE PORT	12	-
Q_{AC}	FLOW AFTER COOLER	M27 X 2.0 / ISO 6149	O-RING PORT	20	-
Q_{BC}	FLOW BEFORE COOLER	1-1/16" / UNF	O-RING PORT	-	-
S_I	INPUT SPEED SENSOR (77 PULSES PER REV.)	5/8"-18 / UNF	FLAT FACE PORT	-	DEUTCH DT04-3P
S_O	OUTPUT SPEED SENSOR (60 PULSES PER REV.)	5/8"-18 / UNF	FLAT FACE PORT	-	DEUTCH DT04-3P
T_{AC}	TEMPERATURE AFTER COOLER	M12 X 1.5 / ISO 6149	O-RING PORT	27	DEUTCH DT06-2S
U	BRAKE PRESSURE	M12 X 1.5 / ISO 6149	O-RING PORT	11.5	-
X	MAIN PRESSURE	M12 X 1.5 / ISO 6149	O-RING PORT	11.5	-
Z	CLUTCH PRESSURE	M12 X 1.5 / ISO 6149	O-RING PORT	11.5	-



DETAIL A
SCALE 1 : 3



DETAIL B
SCALE 1 : 1

MANUAL BRAKE RELEASE DIAGRAM

REV	CHANGE NO.	DATE
A	ECNWF-101805	06/17/2021

FIRST USE ASSEMBLY: S1041124
FIRST USE MODEL: HP1200I0
SIMILAR TO: 1027950Q
WEIGHT: 566 kg
WR²: kg-m²

METRIC

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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
MACHINED DIMENSIONS
X ±0.75
X.X ±0.25
X.XX ±0.13
ALL ANGULAR TOLERANCES ±1°
GEOMETRIC TOLERANCING
PER ASME Y14.5M 1994

MATERIAL:
HEAT TREAT:
DESCRIPTION: INSTALLATION HPTO, HP1200

DATE: 4/5/2018
SCALE: 1:5.5
DRAWN BY: ES
CHECKED BY: YU
APPROVED BY: DAJ

TWIN DISC
RACINE, WI 53403 - USA

1027950R

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

102542OW Rev. A

F E D C B A