



COMPONENT MAINTENANCE MANUAL
3291184

S/O 4870934

Table 103. Test Data Sheet

UNIT PART NUMBER <u>3291184-1</u> UNIT SERIAL NUMBER <u>GRTG-0070</u>		AMBIENT TEMPERATURE <u>77</u> °F (°C) BAROMETRIC PRESSURE <u>28.7</u> IN. (MM) HG A PERCENT HUMIDITY <u>22</u> %	
TEST	REQUIREMENT	ACTUAL VALUE	ACCEPT (A)
<u>INSULATION RESISTANCE</u> CONNECTOR 1 SHELL TO PINS 2 THROUGH 7	100 MΩ MIN.		✓
CONNECTOR 1 PINS 2 AND 3 TO PINS 4 THROUGH 7	100 MΩ MIN.		✓
CONNECTOR 2 SHELL TO PINS 2 THROUGH 7	100 MΩ MIN.		✓
CONNECTOR 2 PINS 2 AND 3 TO PINS 4 THROUGH 7	100 MΩ MIN.		✓
<u>CASE BONDING</u> CONNECTOR 1 SHELL TO ACTUATOR HOUSING	2.5 MILLIOHMS MAX. (2.5 MILLIVOLTS DROP MAX.)	0.52	
CONNECTOR 1 SHELL TO ENGINE MOUNT LUG	10 MILLIOHMS MAX. (10 MILLIVOLTS DROP MAX.)	0.52	
CONNECTOR 2 SHELL TO ACTUATOR HOUSING	2.5 MILLIOHMS MAX. (2.5 MILLIVOLTS DROP MAX.)	0.55	
CONNECTOR 1 SHELL TO ENGINE MOUNT LUG.	10 MILLIOHMS MAX. (10 MILLIVOLTS DROP MAX.)	0.55	
INTERNAL AIR LEAKAGE	2.40 LB (1.09 KG)/MIN MAX.	0.47	
EXTERNAL AIR LEAKAGE	0.30 LB (0.136 KG)/MIN MAX.	0.03	
<u>OUTPUT SIGNAL (LVDT GAIN)</u> <u>CONNECTOR 1 - CLOSED (NULL) POSITION</u>			
VA	1.7380 TO 2.7800 V.	1.8852	
VB	0.9960 TO 2.0380 V.	1.8461	
VA - VB	RECORD	A = 0.0391	
VA + VB	3.0 TO 4.5 V.	B = 3.7	
LVDT GAIN (A + B)	-0.016 TO 0.016 V./V.	0.010	

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COMPONENT MAINTENANCE MANUAL
3291184

Table 103. Test Data Sheet (Cont)

TEST	REQUIREMENT	ACTUAL VALUE	ACCEPT (A)
<u>CONNECTOR 1 - OPEN POSITION</u> VA	1.7380 TO 2.7800 V.	2.6363	
VB	0.9960 TO 2.0380 V.	1.0935	
VA - VB	RECORD	C = 1.5428	
VA + VB	3.0 TO 4.5 V.	D = 3.7	
LVDT GAIN (C - D)	0.384 TO 0.416 V/V.	0.413	
<u>CONNECTOR 2 - CLOSED (NULL) POSITION</u> VA	1.7380 TO 2.7800 V.	1.8818	
VB	0.9960 TO 2.0380 V.	1.8483	
VA - VB	RECORD	A = 0.0335	
VA + VB	3.0 TO 4.5 V.	B = 3.7	
LVDT GAIN (A - B)	-0.016 TO 0.016 V/V.	0.009	
<u>CONNECTOR 2 - OPEN POSITION</u> VA	1.7380 TO 2.7800 V.	2.6307	
VB	0.9960 TO 2.0380 V.	1.1063	
VA - VB	RECORD	C = 1.5244	
VA + VB	3.0 TO 4.5 V.	D = 3.7	
LVDT GAIN (C - D)	0.384 TO 0.416 V/V.	0.407	
FUEL (ACTUATOR) PRESSURE AND LEAKAGE ACTUATOR SEAL FUEL LEAKAGE	0.50 ML. MAX.	0.00	
VISUAL EXAMINATION OF EXTERNAL SURFACES	NO STRUCTURAL DEFORMATION OR FUEL LEAKAGE ON EXTERNAL SURFACES.		✓
ACTUATOR SHAFT SEAL AIR LEAKAGE SEE TR	0.009 LB (0.041 KG) / MIN MAX. (3330 SCCM MAX.)	N/A	
ACTUATOR COOLING FUEL FLOW	88.0 TO 120.0 LB (39.9 TO 54.4 KG) /HR.	94.4	

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75-21-24

Page 124

May 30/07

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COMPONENT MAINTENANCE MANUAL

3291184

TEMPORARY REVISION NO. 75-1

INSERT PAGE 9 OF 11 FACING PAGE 124.

Reason: To change the actuator shaft seal air leakage rate in Table 103.

Table 103 is changed as follows:

Table 103. Test Data Sheet (Cont)

TEST	REQUIREMENT	ACTUAL VALUE	ACCEPT (A)
ACTUATOR SHAFT SEAL AIR LEAKAGE	0.00027 LB (0.00012 KG)/ MIN MAX. (100 SCCM MAX.)	000	

75-21-24

Page 9 of 11
28 Aug 2013

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COMPONENT MAINTENANCE MANUAL
3291184

TEMPORARY REVISION NO. 75-1

INSERT PAGE 10 OF 11 FACING PAGE 125/126.

Reason: To add section on Table 103 to record valve airflow.

Table 103 is changed as follows:

Table 103. Test Data Sheet (Cont)

TEST	REQUIREMENT	ACTUAL VALUE	ACCEPT (A)
INLET VALVE AIRFLOW <i>94.0 LB/min Min</i>	<i>NH 11/29/13</i> 0 TO 150 LB (0 TO 68 KG) EACH MINUTE	<i>103.16</i>	
PERFORMANCE MINIMUM ACTUATION PRESSURE PTB(LO) = PCR + 20 + 0/-2 PSIG	BUTTERFLY CLOSED	<i>160</i>	
PCR = PTB(LO) + 20 + 0/-2 PSIG	BUTTERFLY OPEN	<i>155</i>	
RESPONSE TIME OPENING TIME	0.50 SEC MAX.	<i>0.25</i>	
CLOSING TIME	0.80 SEC MAX.	<i>0.36</i>	
UNIT ACCEPTED: (TEST TECHNICIAN)	DATE <i>NOV 29 2013</i> <i>Smith</i>	ACCEPT <i>(89 FT)</i>	

75-21-24

Page 10 of 11
28 Aug 2013