

**TEST SPECIFICATION - AIR BOX LIMITS**  
 PRECISION AIRMOTIVE CORPORATION - MARYSVILLE, WASHINGTON

**11711-02**

*JH/F* 3/17/03

ENGINEERING SPECIFICATION: PES-4500

MODEL: RS-10B1

SERIAL NUMBER: 40240

OPERATOR: Nielson

DATE: 4-12-16

INSTALLATION PARTS LIST: 391787-4

BASIC PARTS LISTS: 2539494

INTERNAL CHANGE: 78

CUSTOMER: TEXTRON LYCOMING

CUSTOMER TEST SPEC: 12905-F

AIRFLOW: STANDARD (29.92"Hg @ 59°F)

FUEL: PES-2010 or PES-2150 @ 70-80°F

AIR BOX NUMBER: 4004

FUEL TEMP. \_\_\_\_\_ °F

BAROMETRIC PRESSURE \_\_\_\_\_

PSI @ \_\_\_\_\_ °F

TEST POINT NUMBER	1	2	3	4	5
AIRFLOW (LBS/HR)		32 100	800	1600	1600
CARB LOSS ("Hg)	W/O	15.7	10.2	W/O	W/O
FUEL INLET PRESS	26 ± 1	26 ± 1	26 ± 1	26 ± 1	45 ± 5
MIXTURE CONTROL	ICO	RICH	RICH	RICH	40° FROM RICH
AIRBOX PRESS ("Hg)					

**FLOWMETER LIMITS**

MINIMUM

OBSERVED (LBS/HR)

MAXIMUM

81.6	43.0	120.4	<del>120.4</del>	216.6
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5cc MAX

10.4

144

**METERING SUCTION**

AVERAGE VALUE

OBSERVED ("H<sub>2</sub>O)

2.9	<del>2.9</del>	11.9
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**METERING HEAD**

AVERAGE VALUE

OBSERVED ("STODDARD)

6.4	11.4	48.7
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EXTERNAL LEAKAGE -  
NONE PERMITTED

1. METERING HEAD AND METERING SUCTION ARE TO BE RECORDED AS REQUIRED FOR A GUIDE IN TROUBLESHOOTING.