



AVStar Fuel Systems, Inc.  
1365 Park Lane South  
Jupiter, FL 33458  
[www.avstardirect.com](http://www.avstardirect.com)

## SERVICE BULLETIN

DOCUMENT: AFS-SB12

REVISION: ORIGINAL

ISSUED: July 1, 2014

PAGE: 1 OF 3

### SERVICE LIMITS FOR AVSTAR FUEL SERVOS

*Service Bulletins are advisory documents. They are NOT issued or approved by the FAA. Information contained in a Service Bulletin may or may not be incorporated entirely at the product owner's discretion.*

#### 1. APPLICABILITY

This Service Bulletin applies to all RSA series servos (RSA-5AD1, RSA-10AD1 and RSA-10ED1) manufactured by AVStar Fuel Systems, Inc.

#### 2. REASON FOR PUBLICATION

AVStar has been requested to expand the flow calibration data provided in its Field Service Manuals to include "Service Limits". These additional flow specifications are provided to define the boundary of acceptable servo performance for each servo part number. Any servo that performs outside of these Service Limits must be overhauled by AVStar or an AVStar approved Service Center.

#### 3. TIME OF COMPLIANCE

Whenever the flow performance of the servo is being checked. In the event the servo is being overhauled, calibration values of flow performance must be used.

#### 4. INSTRUCTIONS FOR COMPLIANCE

4.1 Any AVStar servo that undergoes overhaul must be flow tested and adjusted to assure compliance with the calibration flow performance data contained in AVStar's Field Service Manual for the model servo in question.

4.2 In the event that an AVStar servo is being checked to determine if a systemic flow performance issue exists, the servo can be checked on a "Run-as-Received" basis against "Service Limits". If a servo falls within this broader but still acceptable tolerance



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of flow performance, further analysis of the servo may be avoided.

4.3 “Service Limits”, applicable to any servo, are derived from the Test Point Number data on the calibration sheet for that servo. At each calibration Test Point Number, the Service Limit is defined as follows –

**Minimum Flow Meter Limits** (at each Test Point Number)

Service Limit (lbs/hr) = Calibration Limit (lbs/hr) **MINUS** 2.5%

**Maximum Flow Meter Limits** (at each Test Point Number)

Service Limit (lbs/hr) = Calibration Limit (lbs/hr) **PLUS** 2.5%

FOR EXAMPLE:

**Minimum Flow Meter Limits (lbs/hr)**

Calibration Limits:	30	50	70	90	110
Service Limits:	29.25	48.75	68.25	87.95	107.25

**Maximum Flow Meter Limits (lbs/hr)**

Calibration Limits:	30	50	70	90	110
Service Limits:	30.75	51.25	71.75	92.25	112.75

4.4 For further clarity, please contact –

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PAGE: 3 OF 3

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