

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

B2RM
Revision 1
AEROSTAR
(RAVEN)
MG-1000
February 1, 1986

TYPE CERTIFICATE DATA SHEET NO. B2RM

This data sheet, which is part of Type Certificate No. B2RM, prescribes conditions and limitations under which the product for which type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder:	Aerostar International Inc. 1813 "E" Avenue, P. O. Box 5057 Sioux Falls, SD 57117-5057
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**I. - Model MG-1000, Captive Gas, Manned Free Balloon, Approved September 30, 1981**

Description	(a) Diameter	44 ft.
	(b) Displacement	37,000 cu. ft. (1047 cu. meters)
	(c) Ballast provisions	sand bags
Envelope	Model MG-1000, Drawing D-51328 Weight 420 lbs. (nominal)	
Gondola	Drawing D-51316, 72" x 48" x 44" high, 166 lbs. (nominal)	
Maximum Weight	2438 pounds	
Lifting Gas	Helium	
Minimum Crew	One (1) pilot	
Minimum Ballast	15 percent of gross takeoff weight plus drag rope.	
Serial Nos. Eligible	S/N MG 1000-101 and up.	

**Data Pertinent to all Models**

Certification Basis	Part 31 of the FAR dated July 1, 1964, as amended by 31-1 through 31-4.  Application for type certificate dated June 24, 1980.  Type Certificate No. B2RM issued September 30, 1981.
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Production Basis	Production Certificate No. 3 GL
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## Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification, except for safety belts.

In addition to the above required equipment, the following equipment is also required:

1. FAA Approved Balloon Flight Manual dated September 30, 1981 or Later Approved Revision.
2. Knife with 2 1/2 in. blade minimum.
3. Protective headgear
4. For VFR Night operations, an approved position light position light system.

## Maintenance and Inspection

- a. The following maintenance must be performed at each annual or 300 hour inspection.
  1. Replace the filter at top of gas valve cylinder.
- b. Annual or 300 hour inspections must include inspection of fabric condition.
- c. The hook and pile fastener on the safety pull patch should be inspected as outlined in the FAA Approved MG-Series Gas Balloon Maintenance Manual, Instructions for Continued Airworthiness, Approved September 30, 1981, or later FAA Approved revisions.

- NOTE 1. Current weight and balance report, including list of equipment included in certificated empty weight and loading instructions, when necessary, must be provided for each balloon at the time of original certification.
- NOTE 2. Each balloon envelope must have an individual registration number. An individual envelope is eligible for a Standard Airworthiness Certificate when mated with any approved gondola for that model balloon. Change to an eligible combination must be documented by making a logbook entry endorsed by Pilot-In-Command or certified mechanic.
- NOTE 3. For the purpose of maintenance and inspection, operation records (logbooks) must be maintained with each balloon envelope.

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