



Winston H. Hickox  
Agency Secretary

## Air Resources Board

Alan C. Lloyd, Ph.D.  
Chairman

2020 L Street • P.O. Box 2815 • Sacramento, California 95812 • www.arb.ca.gov



Gray Davis  
Governor

October 27, 1999

Sergio M. Bravo  
President, CEO  
S. Bravo Systems, Inc.  
6320 Caballero Boulevard  
Buena Park, CA 90620-1100

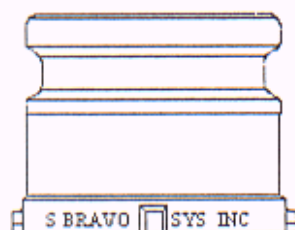
99-12

Dear Mr. Bravo:

### Approval of the Model B-70 B Swivel Fill Adapter

This is in response to your request for California Air Resources Board (CARB) approval of the Model B-70 B swivel fill adapter for use with two point Phase I vapor recovery systems at gasoline dispensing facilities. The swivel feature prevents loosening of the unit from, or overtightening onto, the liquid product riser pipe, which can occur during the connection/disconnection procedure of the fuel delivery lines.

The B-70 B brass swivel fill adapter assembly, illustrated below, consists of a base and an adapter. The base is tightened to the riser pipe, with a tool such as the Bravo BT-70 (depicted below), and secured with set screws. A gasket, which seats in the base, compresses to ensure that a tight seal is created with the lip of the drop tube. When torque is applied by movement of the drop hose and elbow, the adapter portion will rotate while the base remains in place.



Adapter  
(Swivel Portion)

Base

Bravo B-70 B Swivel Fill Adapter



Bravo BT-70 Tool

As required by the Certification Procedures for Gasoline Vapor Recovery Systems at Service Stations, the approvals of the three State agencies are a precondition to certification by the Air Resources Board. The appropriate letters of approval have been received and are listed as follows:

Department of Food and Agriculture,  
Division of Measurement Standards  
April 26, 1999

Department of Occupational Safety and Health  
April 9, 1999

Department of Forestry and Fire Protection  
Office of the State Fire Marshal  
March 31, 1999

I find that the use of the Bravo B-70 B swivel fill adapter, when installed in accordance with the manufacturer's instructions and the conditions listed above, will not adversely affect the performance of vapor recovery systems on which it is installed. Therefore, the Bravo B-70 B swivel fill adapter is certified for use with CARB certified two point Phase I vapor recovery configurations..

If you have any questions or wish to discuss this matter further, please call Ranjit Bhullar at (916) 323-7370 or Laura McKinney at (916) 327-1525.

Sincerely,

A handwritten signature in black ink, appearing to read 'James J. Morgester', with a long horizontal flourish extending to the right.

James J. Morgester, Chief  
Compliance Division

cc: Mr. Jim Johnston, Chairman,  
CAPCOA Vapor Recovery Committee  
Monterey Bay Unified APCD  
24580 Silver Cloud CT.  
Monterey, CA 93940-6536