



Jeremiah W. (Jay) Nixon, Governor • Mark N. Templeton, Director

## DEPARTMENT OF NATURAL RESOURCES

[www.dnr.mo.gov](http://www.dnr.mo.gov)

MAR - 8 2010

Mr. Allan Busch  
Product Manager  
Service Station Hardware & Transport Systems  
Franklin Fueling Systems  
3760 Marsh Rd  
Madison, WI 53718

APPROVAL LETTER 2010-1

Dear Mr. Busch:

This letter is to inform you and Franklin Fueling Systems, of the Missouri Department of Natural Resources approval of a modification that reduces the diameter of the retaining ring (to both the brass and stainless steel vapor swivel adaptors) as well as approval of stainless steel fill and vapor swivel adaptors, for use in Missouri Stage II vapor recovery required gasoline dispensing facilities.

Franklin Fueling Systems requested MOPETP approval of their modified vapor swivel adaptors involving reduction of the diameter of the retainer ring surface to allow the retainer that holds the Spider (vapor adaptor poppet) in place to rest properly on the retainer surface. Franklin Fueling also requested MOPETP approval of fill and vapor swivel adaptors constructed of stainless steel in addition to the brass construction material used for the Phil-Tite SWV-101-B and SWF-100-B brass vapor and fill adaptors previously MOPETP approved (Approval Letter 2008-3).

The product concerns raised during the engineering evaluation included: (1) adaptor removal concerns for adaptors exhibiting issues with seizing or rust, (2) stainless steel material compatibility concerns involving various blends of gasoline and ethanol, as well as with the galvanized steel material construction of most pipe risers in spill buckets, and (3) availability of local training sessions to ensure proper installation, operation and maintenance of stainless steel components. The Technical Review Committee recognized the need for installation, operation and maintenance training session(s). Franklin Fueling agreed to work with Missouri to make such training available in the St. Louis area. The Technical Review Committee voted unanimously for engineering approval of reducing the diameter of the retaining ring surface (modification approved for both brass and stainless steel vapor swivel adaptors) and for engineering approval of the stainless steel fill and vapor swivel adaptors, as listed in Table 1:

Mr. Allan Busch  
Page Two

Table 1. List of MOPETP approved Franklin Fueling System Products.

Manufacturer	CARB Identification and product marking	Description
Phil-Tite/Franklin Fueling	SWF-100-SS	4" Stainless Steel fill swivel adaptor
Phil-Tite/Franklin Fueling	SWV-101-SS	4" Stainless Steel vapor swivel adaptor with modified Spider retainer surface diameter
Phil-Tite/Franklin Fueling	SWV-101-B	4" Brass vapor swivel adaptor with modified Spider retainer surface diameter

**Approval Conditions:**

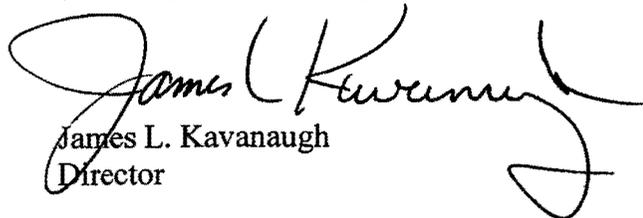
The approvals of the Franklin Fueling fill and vapor swivel adaptors are conditional upon the following requirements:

1. See Table 1 for the list of approved Franklin Fueling products for all balance Vapor Recovery systems.
2. All installation and maintenance requirements provided in the CARB certifications (CARB Executive Order VR-101-L or newer) must be followed including annual inspections as listed in CARB EO VR-101-L, Exhibit 2, Table 2-2 and text for acceptable torque and leak rates.
3. The installation and replacement of approved adaptors must follow all instructions in the Installation, Operation and Maintenance Manual including, but not limited to, the use of proper lubricants, gaskets, and proper torque levels.
4. All requirements and conditions of the CARB 08-04 are adopted by reference.

Thank you for your cooperation in the MOPETP process. If you should have any questions about this approval, please contact Mr. Bob Randolph at the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, by email at bob.randolph@dnr.mo.gov or by telephone at (573) 751-4817.

Sincerely

AIR POLLUTION CONTROL PROGRAM



James L. Kavanaugh  
Director

JLK:brt

c: Vapor Recovery