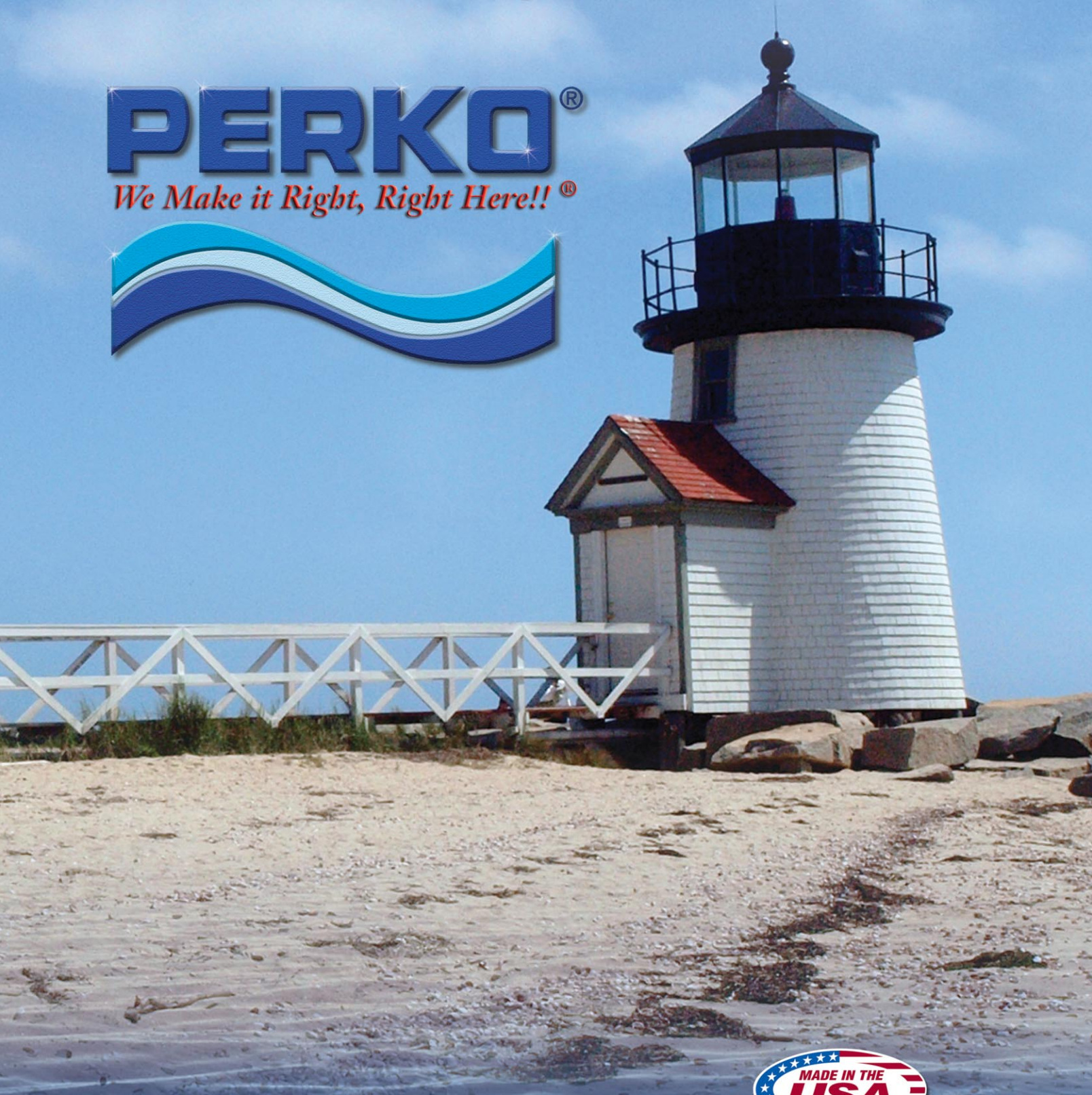


Emissions Related Products and Deck Fills

Manufacturer of Marine Lights, Hardware and Accessories

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Catalog 315-E



Catalog No. 315-E

For Emissions Related Products and Deck Fills

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1

Overview

With over 40 years of experience manufacturing carbon canisters in production volumes for the world's largest automotive manufacturers, Delphi developed the first carbon canister for marine use. Based on application information provided by the EPA, the NMMA and the ABYC, Delphi designed, manufactured and supplied all of the canisters used to evaluate product feasibility on boats in the summer of 2005. These canisters were used by 4 boat manufacturers to build 14 test boats and are the basis for marine industry specifications for carbon particles, vibration, strength, installation, fire resistance and sizing.

Since then, Delphi has coupled their years of automotive production experience with the knowledge gleaned through their involvement in the marine development and test program to perfect a production marine canister. Specifically designed for use on boats, Delphi marine canisters have a unique "floating" mount system which isolates them from any torque developing across mounting points by a flexing boat hull. This system permits builders to mount the canister in any position and, coupled with a special internal carbon particle support mechanism, allows Delphi canisters to easily meet all vibration requirements. Manufactured from high strength polymers and corrosion resistant materials, Delphi canisters are designed, manufactured and tested to withstand the rigors of marine applications. Delphi canisters are made and tested to automotive quality standards while being certified to meet every requirement imposed on canisters by the U.S.C.G., the EPA, CARB and the ABYC.

Canister Function and Sizing

- Polymer body with marine grade activated carbon.
- Hydrocarbon molecules are attracted to and stored on the surfaces of carbon pores by a physical phenomenon known as adsorption.
- Canister filling or adsorption occurs during two major events – thermal tank content expansion and refueling.
- Canister purging for marine industry will occur passively – based on vacuum created during cooling of gas and gas tank. Tank vacuum will pull ambient air through the canister resulting in desorption or purging of hydrocarbons from the canister.
- Purging is a function of the amount of vapor in the canister, purge air volume, and temperature.
- Optional mounting bracket allowed to rotate on end cap allows movement of mounting bracket without stressing canister body.
- For an interactive canister sizing guide please go to: www.perkofuelsystems.com/componentparts/canisters/sizing

Canister Mounting Options and Considerations

Engine Compartment Mounting

- If the canister is mounted in the engine compartment, then a heat shield is required for the canister (to pass the Coast Guard fire test). The shield comes permanently mounted to the canister.

Other Mounting Locations

- For non-engine compartment locations a heat shield is not required.

Mechanical

- Choose a canister location that protects the canister from external impacts.
- Do not mount in a location where the canister will be stepped on.
- The mounting location should be stiff, to minimize twisting/bending of the canister body.

Temperature

- The canister can withstand temperatures of 115°C continuously with 15 minute excursions to 125°C.
- A permanently mounted heat shield is available on the canister. It is for applications where the canister is mounted in the engine compartment and thus the canister must pass the Coast Guard fire test. The heat shield will also help if there is a short term temperature excursion, but is NOT effective for reducing a high continuous temperature.

Liquids

- The canister is a hydrocarbon VAPOR control device. Allowing liquid (water or gasoline) to enter into the canister will cover the carbon and prevent it from capturing the gasoline vapors. While a one time event of getting liquid into the canister will not harm the carbon, a poorly designed system will repeatedly allow liquid into the canister and prevent the canister from functioning properly. The EPA regulations require that systems be designed to prevent liquid from entering the canister.

Canister Sizing Special Applications

- To size the canister on fuel tanks with multiple vents, divide the required canister size by the number of vents.
- Example: 27 foot boat, 300 gallon fuel tank capacity, 2 vent lines on one tank. The required canister size is 4.8L if there is only one vent line. In this case, each vent line must have at least 2.4 liters of carbon. The closest size available is 3.0L.
- With large fuel tanks, canisters can be placed in series to get the appropriate carbon volume.
- Example: 27 foot boat, 300 gallon fuel tank capacity, 1 vent line. The required canister size is 4.8L. A 3.0L and a 2.0L canister can be connected in series to give the required carbon volume.



5/16" Nipple

5/8" Nipple



Location

The canister can be mounted in any location that the current vent line is located. The canister is installed between the fuel tank vent fitting and the fresh air vent fitting. The canister must be mounted above the highest point of the fuel tank. Thought must be given to the following when choosing a location:

- The hose connections to the canister must be accessible for inspection and service.
- The canister should not be mounted in a location where it will be stepped on or otherwise have a force exerted upon it.
- The canister is designed to withstand a temperature of 115°C continuously. Short term excursions (15 minutes) to 125°C is acceptable.
- The canister can be mounted in any orientation.
- If mounted in the engine compartment, the canister must have a heat shield (this is an optional component that will be integral to the canister).

System Requirements

The fuel tank vent system must be designed in such a way that liquid fuel is not passed through the vent line and into the canister. The vent system must also prevent the intake of water into the vent system and into the canister. These are requirements of the EPA regulation. When designing your fuel system, you must also consider fuel expansion and situations such as storage of the vessel with a full tank on an incline.

Mounting of the Canister

The canister (with the bracket) is designed to be mounted with four #10 screws or 3/16" bolts. This is the setup that has been validated to ABYC standards. If the end user chooses to mount the canister in some other fashion, they are responsible for the validation of the mounting. Please note that the canister has an internal plate and spring that must be able to move inside the body of the canister. For this reason, any mounting mechanism must not constrain the body for 25 mm from either end of the canister body.

Connection of the Vent Line to the Canister

The vent hose must be anchored to the boat structure within 6 inches of the canister fittings. The vent hose must be routed to prevent a load from being exerted onto the canister fittings.

The hose clamp must be a minimum of 3/8" wide. The clamp must not distort the fitting on the canister when tightened.

Canister Sizing vs Fuel Tank Size

Use the table below to determine canister size based upon length of boat and fuel tank volume.

| Trailerable Under 26 Feet | |
|---------------------------|---------------------|
| Canister (Liters) | Tank Size (Gallons) |
| .50 | 0-62 |
| .75 | 63-93 |
| 1.0 | 94-124 |
| 1.5 | 125-186 |
| 2.0 | 187-248 |
| 3.0 | 249-372 |
| 4.0 | 373-496 |

| Non-Trailerable Over 26 Feet | |
|------------------------------|---------------------|
| Canister (Liters) | Tank Size (Gallons) |
| .50 | 0-124 |
| .75 | 125-186 |
| 1.0 | 187-248 |
| 1.5 | 249-372 |
| 2.0 | 373-496 |
| 3.0 | 497-744 |
| 4.0 | 745-992 |

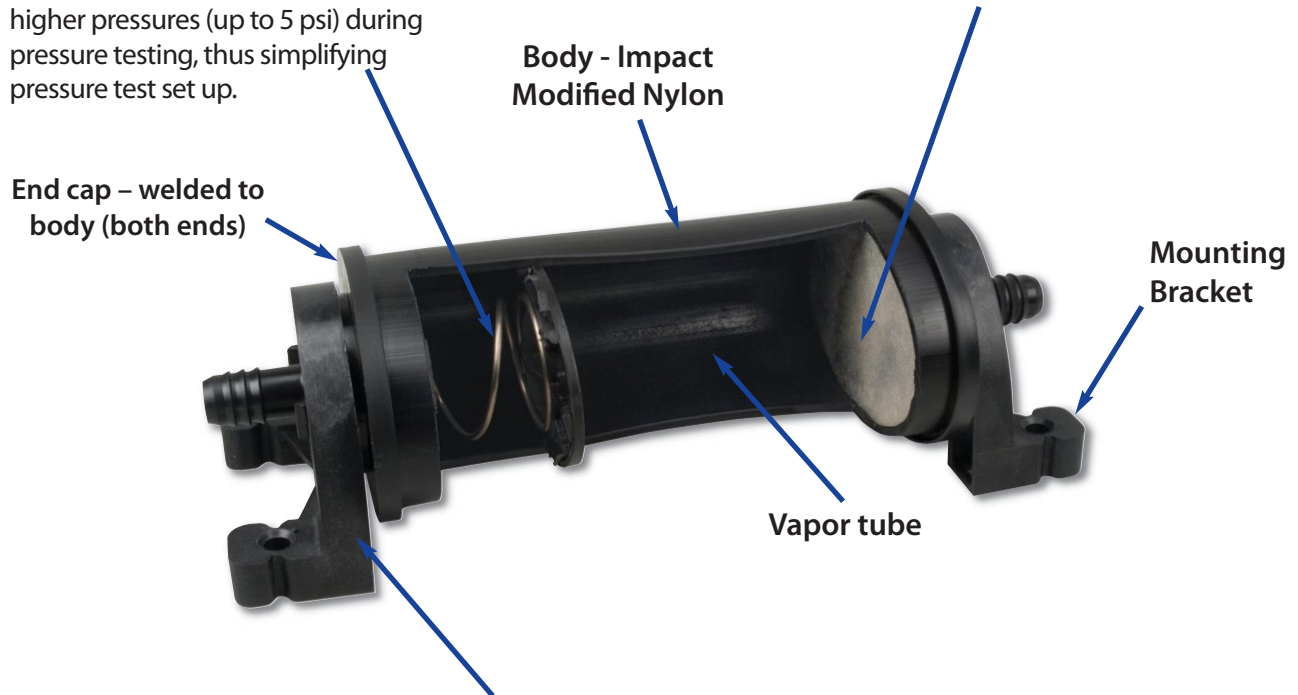


Delphi Carbon Canisters

Features & Benefits

Spring loaded volume compensator compresses carbon to reduce internal abrasion caused by vibrations. The heavy wall, elliptically shaped body and location of the volume compensator near the end of the canister permit higher pressures (up to 5 psi) during pressure testing, thus simplifying pressure test set up.

Large surface area filters located at each end of the canister keep carbon in place and allow for the lowest airflow restrictions available.



Patented "floating bracket" allows for easy installation while reducing the transmission of torque to the canister body, end caps and spuds.

The "floating bracket" also protects end caps from heat so that the factory installed heat shield is all that is needed to meet engine compartment requirements for fire protection. Builders simply install as usual with no additional effort or insulation requirements.



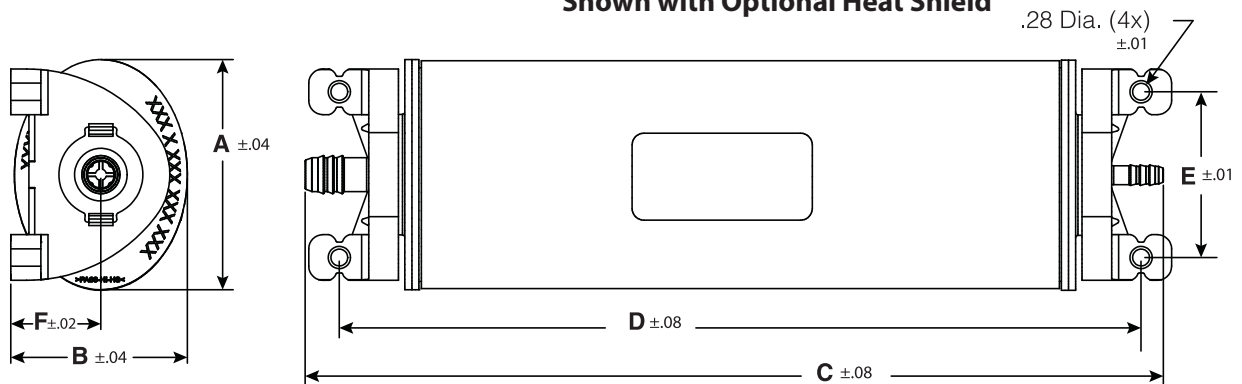
Activated Carbon
Volume varies depending on application



Delphi marine canisters are available in sizes ranging from 0.5L to 4.0L. Each size offers hose nipple connection options of 5/16" in and 5/8" out or 5/8" in and 5/8" out. The same configurations are also available with a heat shield if required.



Shown with Optional Heat Shield



Canister Ordering & Tech Information

| Catalog No. | Vent Size | Canister Size | Heat Shield | Dimensions Inches | | | | | | Std. Pkg. | OEM Bulk Pkg. | Ship Wt.(lbs.) Std. Pkg./ OEM Bulk |
|-------------|--------------|---------------|-------------|-------------------|------|-------|-------|------|------|-----------|---------------|------------------------------------|
| | | | | A | B | C | D | E | F | | | |
| 0485005035 | 5/16" x 5/8" | 0.5 Liter | No | 3.83 | 2.90 | 9.65 | 8.72 | 2.76 | 1.50 | 1 | 10 | 1.5/12.5 |
| 0485005055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 9.85 | 8.72 | 2.76 | 1.50 | | | |
| 0485007035 | 5/16" x 5/8" | 0.75 Liter | No | 3.83 | 2.90 | 11.92 | 11.03 | 2.76 | 1.50 | 1 | 10 | 1.8/15.5 |
| 0485007055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 12.12 | 11.03 | 2.76 | 1.50 | | | |
| 0485010035 | 5/16" x 5/8" | 1.0 Liter | No | 3.83 | 2.90 | 14.30 | 13.36 | 2.76 | 1.50 | 1 | 10 | 2.2/18.5 |
| 0485010055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 14.50 | 13.36 | 2.76 | 1.50 | | | |
| 0485015035 | 5/16" x 5/8" | 1.5 Liter | No | 3.83 | 2.90 | 19.00 | 18.06 | 2.76 | 1.50 | 1 | 10 | 3.0/22.0 |
| 0485015055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 19.25 | 18.06 | 2.76 | 1.50 | | | |
| 0485020035 | 5/16" x 5/8" | 2.0 Liter | No | 5.03 | 3.78 | 14.74 | 13.80 | 3.57 | 1.89 | 1 | 5 | 3.2/14.5 |
| 0485020055 | 5/8" x 5/8" | | | 5.03 | 3.78 | 14.94 | 13.80 | 3.57 | 1.89 | | | |
| 0485030035 | 5/16" x 5/8" | 3.0 Liter | No | 5.03 | 3.78 | 20.17 | 19.25 | 3.57 | 1.89 | 1 | 5 | 4.6/21.0 |
| 0485030055 | 5/8" x 5/8" | | | 5.03 | 3.78 | 20.37 | 19.25 | 3.57 | 1.89 | | | |
| 0485040035 | 5/16" x 5/8" | 4.0 Liter | No | 5.03 | 3.78 | 25.42 | 24.56 | 3.57 | 1.89 | 1 | 5 | 5.5/26.0 |
| 0485040055 | 5/8" x 5/8" | | | 5.03 | 3.78 | 25.62 | 24.56 | 3.57 | 1.89 | | | |
| 0485H05035 | 5/16" x 5/8" | 0.5 Liter | Yes | 3.83 | 2.90 | 9.65 | 8.72 | 2.76 | 1.50 | 1 | 10 | 1.6/14.0 |
| 0485H05055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 9.85 | 8.72 | 2.76 | 1.50 | | | |
| 0485H07035 | 5/16" x 5/8" | 0.75 Liter | Yes | 3.83 | 2.90 | 11.92 | 11.03 | 2.76 | 1.50 | 1 | 10 | 1.9/17.0 |
| 0485H07055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 12.12 | 11.03 | 2.76 | 1.50 | | | |
| 0485H10035 | 5/16" x 5/8" | 1.0 Liter | Yes | 3.83 | 2.90 | 14.30 | 13.36 | 2.76 | 1.50 | 1 | 10 | 2.3/21.0 |
| 0485H10055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 14.50 | 13.36 | 2.76 | 1.50 | | | |
| 0485H15035 | 5/16" x 5/8" | 1.5 Liter | Yes | 3.83 | 2.90 | 19.00 | 18.06 | 2.76 | 1.50 | 1 | 10 | 3.3/26.0 |
| 0485H15055 | 5/8" x 5/8" | | | 3.83 | 2.90 | 19.25 | 18.06 | 2.76 | 1.50 | | | |
| 0485H20035 | 5/16" x 5/8" | 2.0 Liter | Yes | 5.03 | 3.78 | 14.74 | 13.80 | 3.57 | 1.89 | 1 | 5 | 3.6/17.0 |
| 0485H20055 | 5/8" x 5/8" | | | 5.03 | 3.78 | 14.94 | 13.80 | 3.57 | 1.89 | | | |
| 0485H30035 | 5/16" x 5/8" | 3.0 Liter | Yes | 5.03 | 3.78 | 20.17 | 19.25 | 3.57 | 1.89 | 1 | 5 | 5.2/23.0 |
| 0485H30055 | 5/8" x 5/8" | | | 5.03 | 3.78 | 20.37 | 19.25 | 3.57 | 1.89 | | | |
| 0485H40035 | 5/16" x 5/8" | 4.0 Liter | Yes | 5.03 | 3.78 | 25.42 | 24.56 | 3.57 | 1.89 | 1 | 5 | 6.5/30.0 |
| 0485H40055 | 5/8" x 5/8" | | | 5.03 | 3.78 | 25.62 | 24.56 | 3.57 | 1.89 | | | |



NEW PRODUCT

Fig. 0635 Special Application Flapper Valve Fill Pipe Insert Inlet Check Valves (ICV) Patent Pending

CONSTRUCTION:

- White polymer valve with black polymer flapper
- Valves designed for use with plastic or metal tanks
- Perko's new patent pending "In-Pipe ICV" fits inside the fuel pipe itself
- In-pipe ICVs mount inside standard 1½" fill pipes near the connection to the fuel tank
- Eliminates the need to retool existing doghouse on plastic tanks
- Replaces in-line ICVs, eliminating 4 hose clamps & 2 leak points
- Allows for full 18 gpm flow rates

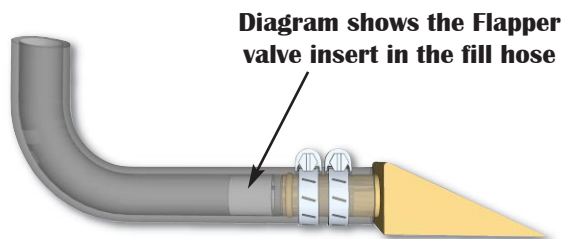


Fig. 0635

Ordering & Technical Information

| Catalog No. | Hose Connection | Length Inches | Width Inches | Fire Test Capable | Dealer Pkg. | OEM Bulk Pkg. | Shipping Weight Lbs. |
|-----------------------|-----------------|---------------|--------------|-------------------|-------------|---------------|----------------------|
| 0635DP0 | 1-1/2 | 1-1/4 | 1-9/16 Dia. | Yes | 5 | --- | 0.6 |
| 0635000 | 1-1/2 | 1-1/4 | 1-9/16 Dia. | Yes | --- | 25 | 2.0 |
| 0635002 (For Diesel)* | 2 | 1-1/4 | 1-15/16 Dia. | Yes | --- | 25 | 2.5 |

* New Item



Inlet Check Valves (ICV)

- ICVs are used to help prevent wellback (the reverse flow of fuel out of the fill after refueling is completed) & spitback. These normally closed valves are opened by the presence of fuel running down the fill pipe during refueling.
- All Perko inlet check valves are designed to handle incoming fuel flows in excess of 18 gallons per minute.
- Inlet check valves can be tank mounted or inserted into the fill pipe.
- Mounting options for tank mounted ICVs include flanged (for plastic tanks), threaded or welded (for metal tanks) and swivel (for both plastic and metal tanks)
- Custom ICVs are also available for specialized applications.

Technical Information

- For use in polymer or aluminum tanks
- Hose Connection: 1-1/2"
- Maximum fuel leakage is 0.5cc/m at 12.5 & 149kPa.



Special Application Inlet Check Valves (ICV)

CONSTRUCTION:

- Machined Aluminum
- White Polymer Valve
- Valves designed for mounting on aluminum tanks
- Mounting options – Welded or 1½" NPTF Threaded
- Aluminum tank ICVs can be factory cut to 22½° or 45° angles so that tank builder can form & weld 45° and 90° elbows.



Fig. 0584W00



Fig. 0584TS9

Ordering & Technical Information

| Catalog No. | Style | Hose Connection | Length Inches | Width Inches | Fire Test Capable | OEM Bulk Pkg. | Shipping Weight Lbs. |
|-------------|------------------|-----------------|---------------|--------------|-------------------|---------------|----------------------|
| 0584W00 | 0° Inline Valve | 1-1/2 | 6-3/4 | 1-5/8" Dia. | Yes | 25 | 12.0 |
| 0584TS9 | 45° Inline Valve | 1-1/2 | 3-3/4 | 4-3/8" | Yes | 50 | 21.5 |



Fig. 0584F00
0° Flanged



Fig. 0584F90
90°



Fig. 0584S4500A
45°



Fig. 0584S0000A
0°



Fig. 0584T00
0°



Fig. 0584T 1-1/2" NPTF Threaded Inlet Check Valve (ICV)

Fig. 0584S0A Swivel Inlet Check Valve (ICV)

- For mounting on metal tanks

Fig. 0584F Flanged Inlet Check Valve (ICV)

- For mounting on plastic tank
- Gasket not included

CONSTRUCTION:

- Machined or Cast Aluminum
- White Polymer Valve
- Available with 0°, 45° or 90° hose barb connection
- Swivel Valves Include valve, valve housing, o-ring, snap ring and tank insert.

Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Hose Connection Inches | Bolt Circle Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|------------------------|--------------------|--------------------|
| 0584T90 | 4 | 2-3/4 | 2-1/16 | 1-1/2 | N/A | 1-1/2 NPTF |
| 0584T45 | 4 | 2-1/2 | 2-1/16 | 1-1/2 | N/A | 1-1/2 NPTF |
| 0584T00 | 3-3/4 | 1-29/32 | 2 | 1-1/2 | N/A | 1-1/2 NPTF |
| 0584F90 | 3-27/32 | 4-3/8 | 2 | 1-1/2 | 3-3/4 | 3 |
| 0584F45 | 4-31/32 | 4-3/8 | 3-1/8 | 1-1/2 | 3-3/4 | 3 |
| 0584F00 | 4-27/32 | 4-3/8 | 2-3/8 | 1-1/2 | 3-3/4 | 3 |
| 0584S9000A | 4-7/8 | 2-3/4 | 2-5/16 | 1-1/2 | N/A | 2-1/4 |
| 0584S4500A | 6 | 2-3/4 | 3-7/16 | 1-1/2 | N/A | 2-1/4 |
| 0584S0000A | 5-1/4 | 2-3/4 | 2-11/16 | 1-1/2 | N/A | 2-1/4 |

Ordering Information - OEM Bulk Pkg. 10 Pcs.

| Catalog No. | Style | Collar | For Use on Tank Type | Hose Connection Inches | Angle/Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|----------------|--------|----------------------|------------------------|------------|-------------------|----------------------|
| 0584T90 | NPTF, Threaded | No | Aluminum | 1-1/2 | 90° | Yes | 13.6 |
| 0584T45 | NPTF, Threaded | No | Aluminum | 1-1/2 | 45° | Yes | 11.2 |
| 0584T00 | NPTF, Threaded | No | Aluminum | 1-1/2 | 0° | Yes | 4.8 |
| 0584F90 | Flanged | No | Plastic or Alum | 1-1/2 | 90° | Yes | 11.0 |
| 0584F45 | Flanged | No | Plastic or Alum | 1-1/2 | 45° | Yes | 10.0 |
| 0584F00 | Flanged | No | Plastic or Alum | 1-1/2 | 0° | Yes | 9.2 |
| 0584S9000A | Swivel | Yes | Aluminum | 1-1/2 | 90° | Yes | 9.6 |
| 0584S4500A | Swivel | Yes | Aluminum | 1-1/2 | 45° | Yes | 8.2 |
| 0584S0000A | Swivel | Yes | Aluminum | 1-1/2 | 0° | Yes | 7.6 |



NEW
PRODUCT

2

Fig. 0553 In-line Vent Hose Surge Protector
 Patent Pending

CONSTRUCTION:

- Black Polymer Valve
- Aluminum Surge Float

Features:

- Prevents fuel surges and back splash during re-fueling
- Fits in 5/8" Fuel hose vent line

Perko's patent pending in-line surge protector functions both as a fill limit valve assisting in pump auto shut-off and a check valve to prevent wellback in the vent line. Consult Perko for details on how to install the surge protector as a replacement for a fill limit valve.

Note: Must be installed within 45° of vertical if vented.



Float in
 Static Rest
 Position



Float Rises
 with fuel
 surge



Float seals
 vent line
 preventing
 wellback

Diagram illustrates placement of surge protector in the vent line.



Ordering & Technical Information

| Hose Connection | Length Inches | Dealer Pkg. 5Pcs. 1 Per Card | OEM Bulk Pkg. 25 Pcs. | Carton Ship Wt. Lbs. DP/OEM Bulk |
|-----------------|---------------|------------------------------|-----------------------|----------------------------------|
| 5/8 | 1-9/16 | 0553DP0 | 0553000 | 0.8/2.0 |



Fill Limit Valves (FLV)

- FLVs are used to establish ullage (airspace) in the tank and help prevent overfilling.
- Perko FLVs connect to 5/8" hose. They are designed to vent to vented fuel fills and not directly to canisters.
- Mounting options for tank mounted FLV's include flanged (for plastic tanks), threaded, welded and swivel (for metal tanks).
- Swivel valves include valve, valve housing, o-ring, snap ring and tank insert.
- Distant sensing (DFLV) versions are available for both plastic and metal tanks on a custom basis.
- Custom ullage set points are available. Contact the factory for details.

Technical Information

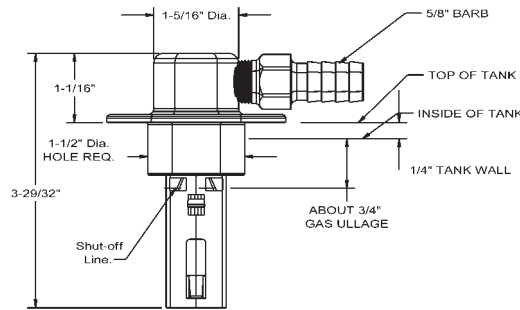
- For use on plastic or aluminum tanks
- Hose Connection - 5/8"
- Flow > 70 l/min @ 0.25 kPa.
- Flow without corking > 130 l/min.
- Minimum reopening pressure: 0.5 kPa



Fig. 0586F00 Flanged Fill Limit eEnt Valve (FLV)

CONSTRUCTION:

- Machined Aluminum
- Blue Polymer Valve
- Standard ullage depths range from 3/8" to 1-1/2"
- Matches the SAE 5-bolt level sender flange.
- Gasket is not included.
- For mounting on Aluminum or plastic tanks



NEW PRODUCT

Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Ullage Depth Inches | Hose Connection | Bolt Circle Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|---------------------|-----------------|--------------------|--------------------|
| 0586F00038 | 3-17/32 | 2-3/4 | 1-1/16 | 3/8 | 5/8 | 2-1/8 | 1-1/2 |
| 0586F00012 | 3-21/32 | 2-3/4 | 1-1/16 | 1/2 | 5/8 | 2-1/8 | 1-1/2 |
| 0586F00034 | 3-29/32 | 2-3/4 | 1-1/16 | 3/4 | 5/8 | 2-1/8 | 1-1/2 |
| 0586F00118 | 4-9/32 | 2-3/4 | 1-1/16 | 1-1/8 | 5/8 | 2-1/8 | 1-1/2 |
| 0586F00112 | 4-21/32 | 2-3/4 | 1-1/16 | 1-1/2 | 5/8 | 2-1/8 | 1-1/2 |

Ordering Information - OEM Bulk Pkg. 10 Pcs.

| Catalog No. | Style | Ullage Depth Inches | Collar | For Use on Tank Type | Angle Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|---------|---------------------|--------|----------------------|------------|-------------------|----------------------|
| 0586F00038 | Flanged | 3/8 | No | Plastic or Alum | 90° | Yes | 3.5 |
| 0586F00012 | Flanged | 1/2 | No | Plastic or Alum | 90° | Yes | 3.5 |
| 0586F00034 | Flanged | 3/4 | No | Plastic or Alum | 90° | Yes | 3.8 |
| 0586F00118 | Flanged | 1-1/8 | No | Plastic or Alum | 90° | Yes | 4.4 |
| 0588F00112 | Flanged | 1-1/2 | No | Plastic or Alum | 90° | Yes | 4.8 |

Note: Longer shut-off heights in 1/2" increments are generally available up to 5-1/2". For custom heights, contact the factory.



**NEW
PRODUCT**

Fig. 0586T00 NPTF Threaded Fill Limit Valve (FLV)

CONSTRUCTION:

- Machined Aluminum
- Blue Polymer Valve
- Standard ullage depths range from 3/8" to 1-1/2"
- For mounting on metal tanks



Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Ullage Depth Inches | Hose Connection Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|---------------------|------------------------|--------------------|
| 0586T00038 | 3-31/32 | 1-5/16 | 1-1/4 | 3/8 | 5/8 | 1" NPTF |
| 0586T00034 | 4-11/32 | 1-5/16 | 1-1/4 | 3/4 | 5/8 | 1" NPTF |
| 0586T00118 | 4-23/32 | 1-5/16 | 1-1/4 | 1-1/8 | 5/8 | 1" NPTF |
| 0586T00112 | 5-3/32 | 1-5/16 | 1-1/4 | 1-1/2 | 5/8 | 1" NPTF |

Ordering Information - OEM Bulk Pkg. 10 Pcs.

| Catalog No. | Style | Ullage Depth Inches | Collar | For Use on Tank Type | Angle Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|----------------|---------------------|--------|----------------------|------------|-------------------|----------------------|
| 0586T00038 | NPTF, Threaded | 3/8 | No | Aluminum | 90° | Yes | 2.6 |
| 0586T00034 | NPTF, Threaded | 3/4 | No | Aluminum | 90° | Yes | 2.9 |
| 0586T00118 | NPTF, Threaded | 1-1/8 | No | Aluminum | 90° | Yes | 3.4 |
| 0586T00112 | NPTF, Threaded | 1-1/2 | No | Aluminum | 90° | Yes | 4.1 |

Note: Longer shut-off heights in 1/2" increments are generally available up to 5-1/2". For custom heights, contact the factory.



NEW PRODUCT

3

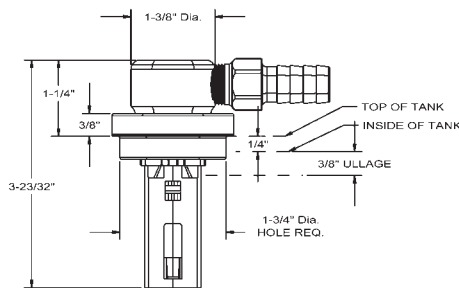


Fig. 0586S0A

Fig. 0586S0A Swivel Fill Limit Valve (FLV)

CONSTRUCTION:

- Machined Aluminum
- Blue Polymer Valve
- Standard ullage depths range from 3/8" to 1-1/2"
- For mounting on aluminum tanks



1-1/2"

1-1/8"

3/4"

1/2"

3/8"



Fig. 0586S0A112

Fig. 0586S0A118

Fig. 0586S0A034

Fig. 0586S0A012

Fig. 0586S0A038

Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Ullage Depth Inches | Hose Connection Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|---------------------|------------------------|--------------------|
| 0586S0A038 | 3-23/32 | 2 | 1-1/4 | 3/8 | 5/8 | 1-3/4 |
| 0586S0A012 | 3-27/32 | 2 | 1-1/4 | 1/2 | 5/8 | 1-3/4 |
| 0586S0A034 | 4-3/32 | 2 | 1-1/4 | 3/4 | 5/8 | 1-3/4 |
| 0586S0A118 | 4-15/32 | 2 | 1-1/4 | 1-1/8 | 5/8 | 1-3/4 |
| 0586S0A112 | 4-27/32 | 2 | 1-1/4 | 1-1/2 | 5/8 | 1-3/4 |

Ordering Information - OEM Bulk Pkg. 10 Pcs.

| Catalog No. | Style | Ullage Depth Inches | Collar | For Use on Tank Type | Angle Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|--------|---------------------|--------|----------------------|------------|-------------------|----------------------|
| 0586S0A038 | Swivel | 3/8 | Yes | Aluminum | 90° | Yes | 4.0 |
| 0586S0A012 | Swivel | 1/2 | Yes | Aluminum | 90° | Yes | 4.0 |
| 0586S0A034 | Swivel | 3/4 | Yes | Aluminum | 90° | Yes | 4.2 |
| 0586S0A118 | Swivel | 1-1/8 | Yes | Aluminum | 90° | Yes | 4.8 |
| 0588S0A112 | Swivel | 1-1/2 | Yes | Aluminum | 90° | Yes | 5.5 |

Note: Longer shut-off heights in 1/2" increments are generally available up to 5-1/2". For custom heights, contact the factory.



Custom Emissions System Fill Limit Valves
Contact the factory for specific ordering information

NEW
PRODUCT

3

Fig. 0586XL Group

Fig 0586S0A400



Fig 0586S0A300

Fill Limit Valves with longer shut-off heights up to 5-1/2"

Mounting Flange for Aluminum Tanks



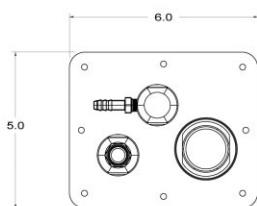
Fig. 0586T00118 with Flange

Distant Sensing FLV

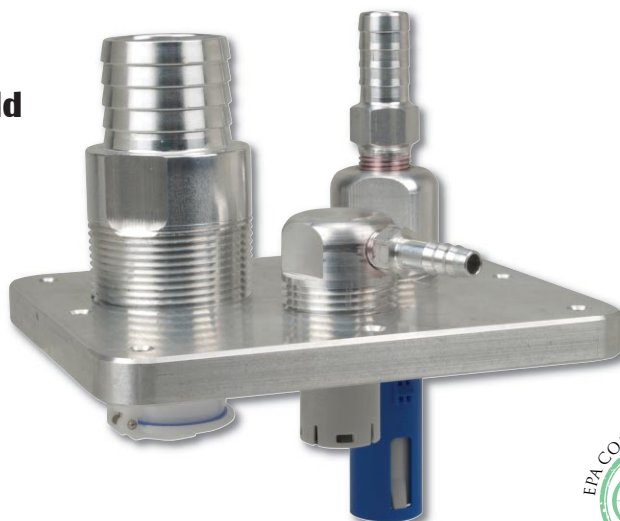
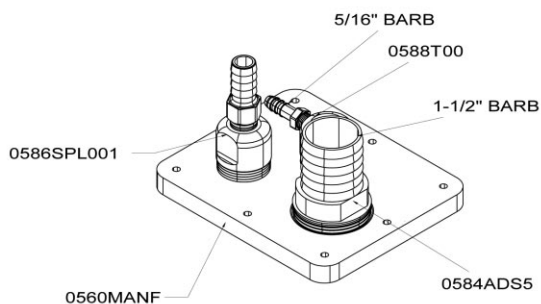
For Polymer Tanks



For Aluminum Tanks



Special Manifold



Tank Vent Valves (TVV) (ROV+OPR)

- Tank vent valves are designed to direct vapors generated during the diurnal cycle. Vent lines from TVV's generally run to carbon canisters. Properly installed, TVV's help protect canisters from liquid fuel.
- Perko TVV's are sometimes referred to as rollover valves (since they offer rollover protection) and as grade vent valves. They also include an overpressure relief feature.
- Mounting options for tank mounted TVV's include flanged (for plastic tanks), threaded (for metal tanks) and swivel (for both plastic and metal tanks).
- Internally mounted versions are available for both plastic and metal tanks on a custom basis.

4

Technical Information (ROV+OPR)

- For use in Plastic or aluminum tanks
- Hose Connection: 5/16"
- Vent orifice: 0.091 inch (~2.32mm)
- Air Flow Rate Positive Pressure @ 0°: 3.5 kPa ≥ 10 l/min & 10 kPa ≥ 18.2 l/min
- Air Flow Rate Positive Pressure @ 180°: 7 kPa ≤ 0.2 l/min, 13 kPa > 1 l/min
- Reopening Pressure > Min 7 kPa
- Maximum fuel leakage is less than 1.5 cc/min 6 kPa

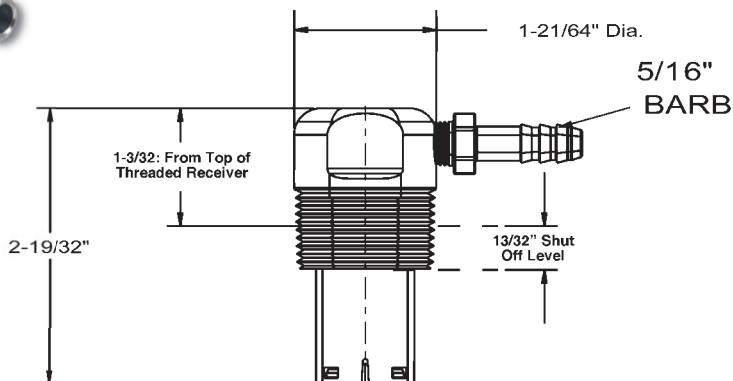


Fig. 0588T00

Fig. 0588T00 NPTF Threaded Tank Vent Valve (TVV)

CONSTRUCTION:

- Machined Aluminum
- Grey Polymer Valve
- Mount with a 1" NPTF thread
- For mounting on metal tanks



Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Shut Off Height Inches | Hose Connection Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|------------------------|------------------------|--------------------|
| 0588T00 | 2-19/32 | 1-21/64 | 1-3/32 | 13/32 | 5/16" | 1" NPTF |

Ordering Information - OEM Bulk Pkg. 20 Pcs.

| Catalog No. | Style | Collar | For Use on Tank Type | Angle/Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|----------------|--------|----------------------|------------|-------------------|----------------------|
| 0588T00 | NPTF, Threaded | No | Aluminum | 90° | Yes | 4.1 |



NEW PRODUCT

Fig. 0588F00 Flanged Tank Vent Valve (TVV)

CONSTRUCTION:

- Machined Aluminum
- Grey Polymer Valve
- Matches the SAE 5-bolt level sender flange
- Gasket is not included
- For mounting on plastic tanks

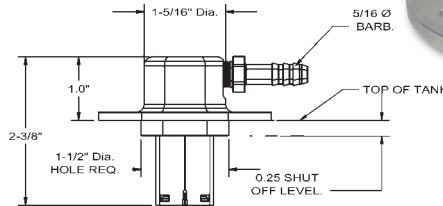


Fig. 0588F00

4

Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Shut Off Height Inches | Hose Connection Inches | Bolt Circle Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|------------------------|------------------------|--------------------|--------------------|
| 0588F00 | 2-3/8 | 2-3/4 | 1 | 1/4 | 5/16" | 2-1/8 | 1-1/2 |

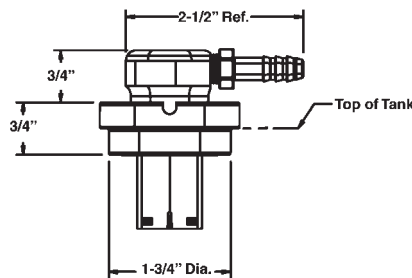
Ordering Information - OEM Bulk Pkg. 20 Pcs.

| Catalog No. | Style | Collar | For Use on Tank Type | Angle/Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|---------|--------|----------------------|------------|-------------------|----------------------|
| 0588F00 | Flanged | No | Plastic | 90° | Yes | 5.1 |

Fig. 0588S0A Swivel Tank Vent Valve for Aluminum Tanks (TVV)

CONSTRUCTION:

- Machined Aluminum
- Grey Polymer Valve
- For mounting on metal tanks
- Includes valve, valve housing, o-rings, snap ring and tank insert



NEW PRODUCT



Fig. 0588S0A

Technical Information

| Catalog No. | Length Inches | Width Inches | Projection Inches | Shut Off Height Inches | Hose Connection Inches | Mounting Hole Dia. |
|-------------|---------------|--------------|-------------------|------------------------|------------------------|--------------------|
| 0588S0A | 2-9/16 | 2 | 1-1/8 | 3/8 | 5/16" | 1-3/4" |

Ordering Information - OEM Bulk Pkg. 20 Pcs.

| Catalog No. | Style | Collar | For Use on Tank Type | Angle/Port | Fire Test Capable | Shipping Weight Lbs. |
|-------------|--------|--------|----------------------|------------|-------------------|----------------------|
| 0588S0A | Swivel | Yes | Aluminum | 90° | Yes | 5.8 |

Fig 0488 - Air-Fuel Separator

CONSTRUCTION:

- Black Polymer

5

- Air Fuel (A/F) separators are designed to protect canisters from liquid fuel. Vapors pass through the device to the canister while liquids are returned to the fuel tank.
- Perko A/F separators mount using the same “floating bracket” system used on Perko/Delphi carbon canisters.
- A 0588 series TVV is mounted inside each Perko A/F separator giving it rollover protection, overpressure relief and the restriction needed to aid in automatic pump shutoff.
- Heat shields are available for use in engine compartment installations.
- Properly installed, A/F separators can replace tank vent valves, eliminating the need to provide access to distant parts of the fuel tank.



A/F Separator
Cutaway View



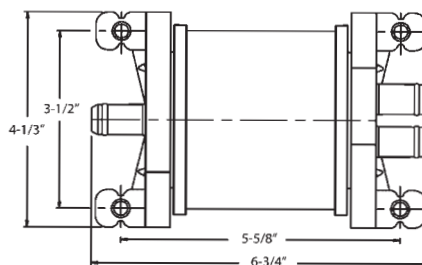
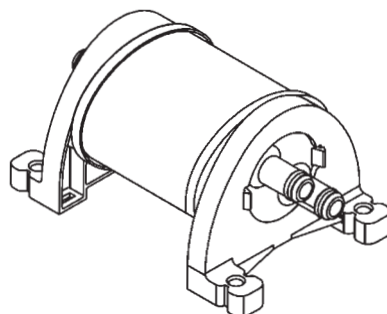
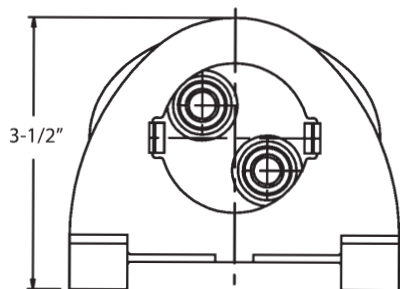
Fig. 0488001



Vent Valve



Fig. 0488H01
with Heat Shield



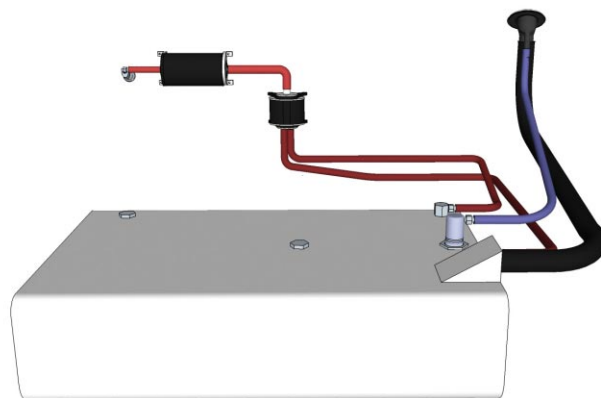
Ordering Information

| Catalog No. | Heat Shield | Length Inches | Width Inches | Projection Inches | Hose Connection Inches | OEM Bulk Pkg. | Shipping Weight Lbs. |
|-------------|-------------|---------------|--------------|-------------------|------------------------|---------------|----------------------|
| 0488001 | No | 6-3/4 | 4-1/3 | 3-1/2 | 5/8 | 5 | 3.7 |
| 0488H01 | Yes | 6-3/4 | 4-1/3 | 3-1/2 | 5/8 | 5 | 3.7 |

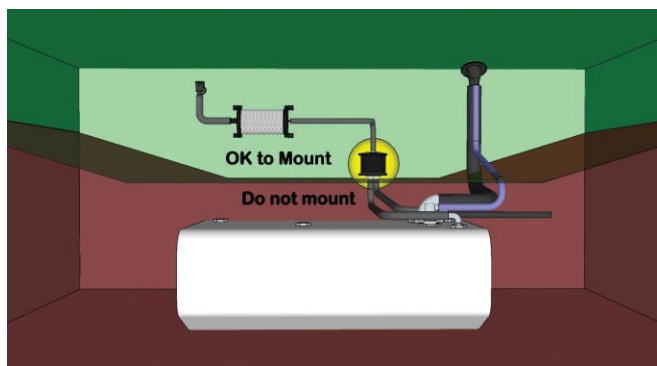


Air-Fuel Separator Access Issues

Perko's Air Fuel Separator helps solve difficult access problems. Running internal vent lines (in either plastic or aluminum tanks) and replacing the tank vent valves with an Air fuel separator eliminates the need to provide access to distant corners of the tank.



5



Air-Fuel Separator Positioning

Perko's Air Fuel separator must be positioned horizontally above the highest level that fuel in the tank can reach during full tilt or storage. The further away from the port/starboard centerline of the tank that the Air fuel separator is located, the higher it must be positioned above the tank

Fig. 0630 P-Trap Vent Valve (PTW)

CONSTRUCTION:

- Stainless steel escutcheons, aluminum shaft & polymer body and splash guard
- Allows vapor to vent from tank during thermal expansion of fuel and while refueling
- Allows fresh airflow into the tank during thermal contraction of fuel and when engine is running
- Protects canisters and fuel systems from water
- Deflector style vent opening reduces water volume entering assembly
- Internal P-Trap and check valve prevents water from passing through assembly into fuel system
- Straight hose connection
- Black or white polymer splash guard



Fig. 0630

Ordering Information

| Catalog Number | Hose Connection | Splash Guard Color | Hose Size | Max. Hull Thickness | OEM Bulk Pkg. Qty. | Shipping Weight Lbs. |
|----------------|-----------------|--------------------|-----------|---------------------|--------------------|----------------------|
| 0630004BLK | Straight | Black | 5/8" | 0" to 1" | 25 | 10.1 |
| 0630004WHT | Straight | White | 5/8" | 0" to 1" | 10 | 5.4 |

Test Plug Fig. 0630TSTPLG



Fig. 0598

Fig. 0598 - 90° Angled Tank Vent with Swivel Elbow

CONSTRUCTION:

- Stainless Steel Escutcheons with Black or White Polymer Splash Guard
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)

Design Allows Elbow to be Rotated to any Position

| Ordering & Tech Information | | | | | |
|-----------------------------|------------------|----------------------------|------------------------------------|-----------------------|----------------------------------|
| Color | Hose Size Inches | Max. Hull Thickness Inches | Dealer Pkg. 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
| Black | 5/8 | 5/8 | 0598DP4BLK | 0598004BLK | 1.7/14.7 |
| White | 5/8 | 5/8 | 0598DP4WHT | 0598004WHT | 1.7/14.7 |

Fig. 0571 - 90° Angled Tank Vent with Swivel Elbow

CONSTRUCTION:

- Zinc Alloy Elbow
- Black or White Polymer Cap
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)

Design Allows Elbow to be Rotated to any Position



Fig. 0571

| Ordering Info | | | Tech Info |
|---------------|-------------------------------------|-----------------------|----------------------------------|
| Color | Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
| Black | 0571DP4BLK | 0571004BLK | 2.4/9.3 |
| White | 0571DP4WHT | 0571004WHT | 2.4/9.3 |

Hose Size: 5/8"
Max. Hull Thickness: 3/4"

Fig. 0561 - 90° Angled Tank Vent with Swivel Elbow

CONSTRUCTION:

- Chrome Plated Zinc Alloy Cap with Zinc Alloy Elbow
- Black or White Polymer Splash Guard
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)

Design Allows Elbow to be Rotated to any Position



Fig. 0561

| Ordering Info | | | Tech Info |
|---------------|-------------------------|-------------------|----------------------------------|
| Color | 10 Cards 1 Pc. per Card | Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
| Black | 0561DP4CHR | 0561004CHR | 2.8/11.5 |
| White | 0561DP4WHT | 0561004WHT | 2.8/11.5 |

Hose Size: 5/8"
Max. Hull Thickness: 1"

Splash Guard Black: Cat. No. 0518000BLK
Splash Guard White: Cat. No. 0518000WHT

Note: All of the Above Vents are Designed to Meet the Requirements of U.S.C.G. Safety Standards January 31, 1977, for Gasoline Fuel Systems 33 CFR 183.



Fig. 0597 - Straight Tank Vent

CONSTRUCTION:

- Stainless Steel Escutcheons with Black or White Polymer Splash Guard
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)



Fig. 0597

6

Ordering & Tech Information

| | Hose Size | Max. Hull Thickness | Dealer Pkg. 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|-------|-----------|---------------------|------------------------------------|-----------------------|----------------------------------|
| Color | Inches | Inches | | | |
| Black | 5/8 | 5/8 | 0597DP4BLK | 0597004BLK | 1.8/14.0 |
| White | 5/8 | 5/8 | 0597DP4WHT | 0597004WHT | 1.8/14.0 |

Fig. 0570 - Straight Tank Vent

CONSTRUCTION:

- Chrome Plated Zinc Alloy Cowl
- Black or White Polymer Cap
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)



Fig. 0570



Ordering Info

| | Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|-------|-------------------------------------|-----------------------|----------------------------------|
| Color | | | |
| Black | 0570DP4BLK | 0570004BLK | 2.4/9.5 |
| White | 0570DP4WHT | 0570004WHT | 2.4/9.5 |

Tech Info

Hose Size: 5/8"
 Max. Hull Thickness: 3/4"

Fig. 0506 - Straight Tank Vent

CONSTRUCTION:

- Chrome Plated Zinc Alloy with Black or White Polymer Splash Guard
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)



Fig. 0506



Ordering Info

| | Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|-------|-------------------------------------|-----------------------|----------------------------------|
| Color | | | |
| Black | 0506DP4CHR | 0506004CHR | 2.1/8.1 |
| White | 0506DP4WHT | 0506004WHT | 2.1/8.1 |

Tech Info

Hose Size: 5/8"
 Max. Hull Thickness: 3/4"

Splash Guard Black: Cat. No. 0518000BLK
 Splash Guard White: Cat. No. 0518000WHT

Note: All of the Above Vents are Designed to Meet the Requirements of U.S.C.G. Safety Standards January 31, 1977, for Gasoline Fuel Systems 33 CFR 183.

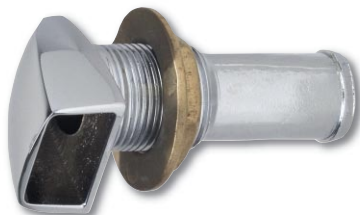


Fig. 0509

Fig. 0509 - Tank Vent

CONSTRUCTION:

- Chrome Plated Bronze
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)

Ordering & Tech Information

| Hose Size Inches | Max. Hull Thickness Inches | Dealer Pkg. 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|------------------|----------------------------|------------------------------------|-----------------------|----------------------------------|
| 5/8 | 3/4 | 0509DP4CHR | 0509004CHR | 1.3/10.4 |
| 3/4 | 5/8 | 0509DP5CHR | 0509005CHR | 1.6/13.4 |

Fig. 0503 - Tank Vent

CONSTRUCTION:

- Chrome Plated Bronze
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)



Fig. 0503

Ordering & Tech Information

| Thread Size Inches | Max. Hull Thickness Inches | Dealer Pkg. 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|--------------------|----------------------------|------------------------------------|-----------------------|----------------------------------|
| 3/8 | 7/8 | 0503DP3CHR | 0503003CHR | 2.1/16.0 |
| 1/2 | 7/8 | 0503DP4CHR | 0503004CHR | 1.9/15.5 |

Fig. 0515 - Tank Vent

CONSTRUCTION:

- Chrome Plated Bronze
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)



Fig. 0515

Ordering & Tech Information

| Thread Size Inches | Max. Hull Thickness Inches | Dealer Pkg. 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|--------------------|----------------------------|------------------------------------|-----------------------|----------------------------------|
| 3/8 | 5/8 | 0515DP3CHR | 0515003CHR | 1.1/8.9 |
| 1/2 | 5/8 | 0515DP4CHR | 0515004CHR | 1.3/10.5 |

Fig. 0505 - Tank Vent

CONSTRUCTION:

- Chrome Plated Cast Bronze
- Removable 30 Mesh Stainless Steel Wire Screen Flame Arrestor (for use with gasoline applications)

Designed to meet the requirements of the National Fire Protection Association Booklet No. 302, Section No. 323 on vent pipe outlets. The 1/2 inch N.P.T. is off center to create a water baffle.



Fig. 0505

Ordering Info

| Color | Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|-------|-------------------------------------|-----------------------|----------------------------------|
| Black | 0570DP4BLK | 0570004BLK | 2.4/9.5 |
| White | 0570DP4WHT | 0570004WHT | 2.4/9.5 |

Tech Info

| |
|---------------------------|
| Hose Size: 5/8" |
| Max. Hull Thickness: 3/4" |

Note: All of the Above Vents are Designed to Meet the Requirements of U.S.C.G. Safety Standards January 31, 1977, for Gasoline Fuel Systems 33 CFR 183.



EPA GAS DECK FILLS AND MATCHING DIESEL, WATER, WASTE FILLS FOR 1-1/2" HOSE

Figs. 0640 & 0641 Sealed Ratcheting Cap Gas Fills
Figs. 0660 & 0661 Sealed Ratcheting Cap Gas Fills with Vacuum/Over Pressure Relief (VOPR)

CONSTRUCTION:

- Chrome Plated Bronze Cap
- Black Polymer Body
- **Figs. 0640 & 0641**
- EPA Compliant Sealed Cap
- **Figs. 0660 & 0661**
- EPA Compliant Sealed Cap with Vacuum /Over Pressure Relief Valve



Figs. 0641 & 0661



Figs. 0640 & 0660



EPA Compliant Sealed Fuel Fill Ordering Information

| Marked For | Sealed Cap Type | Neck | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Lbs. DP/OEM Bulk |
|------------|------------------|----------|---|--------------------------|------------------------------|
| Gas | Chrome No VOPR | Angled | ----- | 0640G00CHR | --/16.8 |
| Gas | Chrome No VOPR | Straight | ----- | 0641G00CHR | --/16.1 |
| Gas | Chrome With VOPR | Angled | 0660DPGCHR | 0660G00CHR | 4.5/16.8 |
| Gas | Chrome With VOPR | Straight | 0661DPGCHR | 0661G00CHR | 4.5/16.1 |

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 O.D. Flange: 3-3/8"
 Neck Length: 2-7/16"
 Mounting Hole Dia.: 2-1/8"
 Screw Size: #8

For Spare Cap Ordering Information See Page E-39

These fills meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.



Figs. 0540 & 0541 - Diesel & Water Vented Fills
 Patent Nos. 5,275,213 & 5,327,946

Fig. 0557 - Non-Vented Fuel & Water Fills
Fig. 0556 - Waste Deck Plate

CONSTRUCTION:

- Chrome Plated Bronze Cap and Black Polymer Body
- Stainless Steel Bead Chain (except for Waste)
- Integral Tank Vent with Flame Arrestor and Anti Surge Valve (on vented styles only)
- Deck Plate Key and O-Ring Included



Fig. 0540 Water

Figs. 0557

Fig. 0556 Waste Fuel & Water Fills

Fig. 0540 Diesel

Ordering Info

| Marked For | Cap Type | Neck | Dealer Pkg. 5 Cards 1 Pc. per Card Vented | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|-------------------|----------|----------|--|-----------------------|----------------------------------|
| Diesel | Chrome | Angled | 0540DPDCHR* | 0540D00CHR* | 4.2/15.1 |
| Water | Chrome | Angled | 0540DPWCHR | 0540W00CHR | 4.2/15.1 |
| Diesel | Chrome | Straight | 0541DPDCHR* | 0541D00CHR* | 4.1/15.0 |
| Water | Chrome | Straight | 0541DPWCHR | 0541W00CHR | 4.1/14.9 |
| Non-Vented | | | | | |
| Diesel | Chrome | Straight | 0557DPDCHR | 0557D00CHR | 4.0/18.0 |
| Water | Chrome | Straight | 0557DPWCHR | 0557W00CHR | 4.0/18.0 |
| Waste | Chrome | Straight | 0556DP0CHR | 0556000CHR | 3.8/17.5 |

Tech Info

For Hose Size: 1-1/2"
 Screw Size: #8
 Mounting Hole Dia.: 2-1/8"
 O.D. Flange: 3-3/8"
Vented
 For Vent Hose: 5/8"
 Neck Length: 2-7/16"
Non-Vented
 Neck Length: 3-1/8"



Fig. 1247



SPARE PARTS ORDERING INFORMATION

Diesel Cap, O-Ring & Retainer: 0540DPD99A
 Water Cap, O-Ring & Retainer: 0540DPW99A
 Waste Cap with O-Ring: 0556DP099A
 Deck Plate Key: 1247DP0BLK
 O-Ring Only: 054000099B

NOTE: Fig. 0556 Complies with Adopted Standards on "Fittings" A.B.Y.C. Recommended Practices Standards Covering Sewage Holding and/or Treatment Devices for Marine Waste Systems.



*Note: Consider using the Mounting Ring (Fig. 0540DPBBLK) for all installations. DP package includes mounting ring. See Page E-36





EPA GAS DECK FILLS AND MATCHING DIESEL AND WATER FILLS FOR 1-1/2" HOSE

NEW PRODUCT

Figs. 0680 & 0681 Sealed Ratcheting Cap Gas Fills with Color Coded Metallic Insert

Figs. 0780 & 0781 Sealed Ratcheting Cap Gas Fills with Vacuum/Over Pressure Relief (VOPR) and Color Coded Metallic Insert

Figs. 0680 & 0780



Figs. 0681 & 0781



- Chrome Plated Bronze or Stainless Steel Scalloped Cap with Color Coded Metallic Insert
- Black Polymer Body
- Figs. 0680 & 0681**
- EPA Compliant Sealed Cap
- Figs. 0780 & 0781**
- EPA Compliant Sealed Cap with Vacuum /Over Pressure Relief Valve

CONSTRUCTION:

7

EPA Compliant Sealed Fuel Fill Ordering Information

| Marked For | | Type | Neck | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Lbs. DP/OEM Bulk |
|------------|-----------|-----------|----------|---|--------------------------|------------------------------|
| Gas | Chrome | No VOPR | Angled | ----- | 0680G00CHR | --/16.9 |
| Gas | Stainless | No VOPR | Angled | ----- | 0680G00STS | --/16.2 |
| Gas | Chrome | No VOPR | Straight | ----- | 0681G00CHR | --/17.4 |
| Gas | Stainless | No VOPR | Straight | ----- | 0681G00STS | --/16.6 |
| Gas | Chrome | With VOPR | Angled | 0780DPGCHR | 0780G00CHR | 4.5/16.9 |
| Gas | Stainless | With VOPR | Angled | 0780DPGSTS | 0780G00STS | 4.3/16.2 |
| Gas | Chrome | With VOPR | Straight | 0781DPGCHR | 0781G00CHR | 4.5/17.4 |
| Gas | Stainless | With VOPR | Straight | 0781DPGSTS | 0781G00STS | 4.3/16.6 |

Tech Info

For Hose Size: 1-1/2"
For Vent Hose: 5/8"
O.D. Flange: 3-3/8"
Neck Length: 2-7/16"
Mounting Hole Dia.: 2-1/8"
Screw Size: #8



For Spare Cap Ordering Information See Page E-39

These fills meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.

Figs. 0580 & 0581 - Vented Fills for Diesel or Water with Color Coded Metallic Insert

Patent Nos. 5,275,213 & 5,327,946

Fig. 0580 Water



Fig. 0581 Diesel



- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Integral Tank Vent with Flame Arrestor and Anti Surge Valve
- Color Coded Metallic Inserts
- Black Polymer Body
- Polymer Tether
- Deck Plate Key Included

CONSTRUCTION:

Ordering Info

| Marked For | Cap Type | Neck | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. OEM Bulk |
|------------|-----------|----------|--------------------------|----------------------------------|
| Diesel | Chrome | Angled | 0580D00CHR* | 17.2 |
| Water | Chrome | Angled | 0580W00CHR | 17.2 |
| Diesel | Stainless | Angled | 0580D00STS* | 15.8 |
| Water | Stainless | Angled | 0580W00STS | 15.8 |
| Diesel | Chrome | Straight | 0581D00CHR* | 17.2 |
| Water | Chrome | Straight | 0581W00CHR | 17.2 |
| Diesel | Stainless | Straight | 0581D00STS* | 15.8 |
| Water | Stainless | Straight | 0581W00STS | 15.8 |

Tech Info

For Hose Size: 1-1/2"
Screw Size: #8
Mounting Hole Dia.: 2-1/8"
O.D. Flange: 3-3/8"
For Vent Hose: 5/8"
Neck Length: 2-7/16"

*Note: Consider using the Mounting Ring (Fig. 0540DPRBLK) for all installations. DP package includes mounting ring. See Page E-36



SPARE PARTS ORDERING INFORMATION

Metallic Insert Kit 0030DP0005 (Includes 4 inserts Gas, Diesel, Water & Waste)
Deck Plate Key 1241DP0BLK

COLOR CODED METALLIC INSERTS





Fig. 0551 - Non-Vented Diesel & Water Fills with Color Coded Metallic Inserts

CONSTRUCTION:

- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Color Coded Metallic Insert for Diesel or Water
- Black Polymer Body
- Deck Plate Key Included



Fig. 0551



Fig. 1241

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| Ordering Info | | | |
|---------------|-----------|-----------------------|-------------------------------|
| Marked For | Cap Type | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. OEM Bulk |
| Diesel | Chrome | 0551D00CHR | 20.5 |
| Water | Chrome | 0551W00CHR | 20.5 |
| Diesel | Stainless | 0551D00STS | 18.0 |
| Water | Stainless | 0551W00STS | 18.0 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| Neck Length: 3-1/8" |
| O.D. Flange: 3-3/8" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |

SPARE PARTS ORDERING INFORMATION
 Metallic Insert Kit 0030DP0005
 (Includes 4 inserts Gas, Diesel, Water & Waste)
 Deck Plate Key 1241DP0BLK

COLOR CODED METALLIC INSERTS



Fig. 0568 - Waste Deck Plate with Color Coded Metallic Insert

CONSTRUCTION:

- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Color Coded Metallic Insert
- Black Polymer Base
- Deck Plate Key Included



Fig. 0568



Fig. 1241

| Ordering Info | | | |
|---------------|-----------|-----------------------|-------------------------------|
| Marked For | Cap Type | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. OEM Bulk |
| Waste | Chrome | 0568000CHR | 19.5 |
| Waste | Stainless | 0568000STS | 18.1 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-3/8" |
| Neck Length: 3-1/8" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |

NOTE: This Item Complies with Adopted Standards on "Fittings" A.B.Y.C. Recommended Practices Standards Covering Sewage Holding and/or Treatment Devices for Marine Waste Systems.



EPA GAS DECK FILLS AND MATCHING DIESEL AND WATER FILLS FOR 1-1/2" HOSE

NEW PRODUCT

Figs. 0682 & 0683 Sealed Ratcheting Cap Gas Fills with Resin Insert
Figs. 0782 & 0783 Sealed Ratcheting Cap Gas Fills with Vacuum/Over Pressure Relief (VOPR) and Resin Insert

CONSTRUCTION:

Figs. 0682 & 0782



Figs. 0683 & 0783



- Chrome Plated Bronze or Stainless Steel Scalloped Cap with Color Coded Resin Insert
- Black Polymer Body
- Figs. 0682 & 0683**
- EPA Compliant Sealed Cap
- Figs. 0782 & 0783**
- EPA Compliant Sealed Cap with Vacuum /Over Pressure Relief Valve

EPA Compliant Sealed Fuel Fill Ordering Information

| Marked For | Sealed Cap | Type | Neck | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Lbs. DP/OEM Bulk |
|------------|------------|-----------|----------|---|--------------------------|------------------------------|
| Gas | Chrome | No VOPR | Angled | ----- | 0682G00CHR | --/18.0 |
| Gas | Stainless | No VOPR | Angled | ----- | 0682G00STS | --/17.0 |
| Gas | Chrome | No VOPR | Straight | ----- | 0683G00CHR | --/18.0 |
| Gas | Stainless | No VOPR | Straight | ----- | 0683G00STS | --/17.0 |
| Gas | Chrome | With VOPR | Angled | 0782DPGCHR | 0782G00CHR | 4.5/18.0 |
| Gas | Stainless | With VOPR | Angled | 0782DPGSTS | 0782G00STS | 4.3/17.0 |
| Gas | Chrome | With VOPR | Straight | 0783DPGCHR | 0783G00CHR | 4.5/18.0 |
| Gas | Stainless | With VOPR | Straight | 0783DPGSTS | 0783G00STS | 4.3/17.0 |

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 O.D. Flange: 3-3/8"
 Neck Length: 2-7/16"
 Mounting Hole Dia.: 2-1/8"
 Screw Size: #8

For Spare Cap Ordering Information See Page E-39

These fills meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.



Figs. 0582 & 0583 - Vented Fills for Diesel or Water with Color Coded Resin Insert

Patent Nos. 5,275,213 & 5,327,946

CONSTRUCTION:

Fig. 0582 Diesel



Fig. 0583 Water



- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Integral Tank Vent with Flame Arrestor and Anti Surge Valve
- Color Coded Resin Insert
- Black Polymer Body
- Polymer Tether
- Deck Plate Key Included

Ordering Info

| Marked For | Cap Type | Neck | Dealer Pkg.** 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|------------|-----------|----------|--|--------------------------|--|
| Diesel | Chrome | Angled | 0582DP0CHR | 0582D00CHR* | 4.5/17.2 |
| Water | Chrome | Angled | 0582DP0CHR | 0582W00CHR | 4.5/17.2 |
| Diesel | Stainless | Angled | ----- | 0582D00STS* | --/15.8 |
| Water | Stainless | Angled | ----- | 0582W00STS | --/15.8 |
| Diesel | Chrome | Straight | 0583DP0CHR | 0583D00CHR* | 4.5/17.2 |
| Water | Chrome | Straight | 0583DP0CHR | 0583W00CHR | 4.5/17.2 |
| Diesel | Stainless | Straight | ----- | 0583D00STS* | --/15.8 |
| Water | Stainless | Straight | ----- | 0583W00STS | --/15.8 |

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 O.D. Flange: 3-3/8"
 Neck Length: 2-7/16"
 Mounting Hole Dia.: 2-1/8"
 Screw Size: #8

**Note: DP Pkg. includes fill, cap and 3 inserts (Gas, Diesel & Water). Use Gas insert on fill only with Non-EPA Compliant fuel systems.

SPARE PARTS ORDERING INFORMATION

Cap, O-Ring & Retainer: 0582DPC99A (Includes 3 Resin inserts; Gas, Diesel & Water)
 Resin Insert Kit: 0030DP0004 (includes 4 inserts Gas, Diesel, Water & Waste)
 Deck Plate Key: 1241DP0BLK.

COLOR CODED RESIN INSERTS



*Note: Consider using the Mounting Ring (Fig. 0540DPRBLK) for all installations. DP package includes mounting ring. See Page E-36





Fig. 0552 - Non-Vented Diesel & Water Fills with Color Coded Resin Insert

CONSTRUCTION:

- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Color Coded Resin Insert
- Black Polymer Body
- Deck Plate Key Included



Fig. 0552

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COLOR CODED RESIN INSERTS



| Ordering Info | | | | |
|---------------|-----------|---|--------------------------|-------------------------------------|
| Marked For | Cap Type | Dealer Pkg.** 5 Cards 1 Pc per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. OEM Bulk |
| Diesel | Chrome | 0552DP0CHR | 0552D00CHR | 19.8 |
| Water | Chrome | 0552DP0CHR | 0552W00CHR | 19.8 |
| Diesel | Stainless | ----- | 0552D00STS | 18.5 |
| Water | Stainless | ----- | 0552W00STS | 18.5 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-3/8" |
| Neck Length: 3-1/8" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |



Fig. 1241

**Note: DP Pkg. includes fill, cap and 4 inserts (Gas, Diesel, Water & Waste).

SPARE PARTS ORDERING INFORMATION

Spare Cap (Non-Vented) 0552DPC99A (includes 4 inserts)
 Resin Insert Kit 0030DP0004 (includes 4 inserts)
 Deck Plate Key 1241DP0BLK



Fig. 0569 - Waste Deck Plate with Color Coded Resin Insert

CONSTRUCTION:

- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Color Coded Resin Insert
- Black Polymer Base
- Deck Plate Key Included



Fig. 0569

| Ordering Info | | | |
|---------------|-----------|--------------------------|-------------------------------------|
| Marked For | Cap Type | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. OEM Bulk |
| Waste | Chrome | 0569000CHR | 19.6 |
| Waste | Stainless | 0569000STS | 18.2 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-3/8" |
| Neck Length: 3-1/8" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |



Fig. 1241

SPARE PARTS ORDERING INFORMATION

Spare Cap (Non-Vented) 0552DPC99A (includes 4 inserts)
 Resin Insert Kit 0030DP0004 (includes 4 inserts)
 Deck Plate Key 1241DP0BLK

NOTE: This Item Complies with Adopted Standards on "Fittings" A.B.Y.C. Recommended Practices Standards Covering Sewage Holding and/or Treatment Devices for Marine Waste Systems.

EPA GAS DECK FILLS AND MATCHING DIESEL, WATER AND WASTE FILLS FOR 1-1/2" HOSE

NEW PRODUCT

No Deck Plate Key Required

Figs. 0690 & 0790



Figs. 0691 & 0791

Figs. 0690 & 0691 Sealed Ratcheting Cap Gas Fills
Figs. 0790 & 0791 Sealed Ratcheting Cap Gas Fills with Vacuum/Over Pressure Relief (VOPR)



Sealed Cap with VOPR Valve Sealed Cap without VOPR Valve

CONSTRUCTION:

- Chrome Plated Bronze Cap
- Black Polymer Body
- **Figs. 0690 & 0691**
- EPA Compliant Sealed Cap
- **Figs. 0790 & 0791**
- EPA Compliant Sealed Cap with Vacuum /Over Pressure Relief Valve

EPA Compliant Sealed Fuel Fill Ordering Information

| Marked For | Sealed Cap Type | Neck | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Lbs. DP/OEM Bulk |
|------------|------------------|----------|---|--------------------------|------------------------------|
| Gas | Chrome No VOPR | Angled | ----- | 0690G00CHR | --/18.5 |
| Gas | Chrome No VOPR | Straight | ----- | 0691G00CHR | --/18.9 |
| Gas | Chrome With VOPR | Angled | 0790DPGCHR | 0790G00CHR | 4.5/18.5 |
| Gas | Chrome With VOPR | Straight | 0791DPGCHR | 0791G00CHR | 4.5/18.9 |

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 O.D. Flange: 3-3/8"
 Neck Length: 2-7/16"
 Mounting Hole Dia.: 2-1/8"
 Screw Size: #8

For Spare Cap Ordering Information See Page E-39

These fills meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.



Fig. 0590 Gas

Fig. 0591 Diesel

Fig. 0564 Diesel & Water

Fig. 0563 Waste

Figs. 0590 & 0591 - Diesel & Water Vented Fills

Patent Nos. 5,275,213 & 5,327,946

Fig. 0564 - Non-Vented Diesel & Water Fills

Fig. 0563 - Waste Deck Plate

No Deck Plate Key Required

CONSTRUCTION:

- Chrome Plated Bronze Cap
- Black Polymer Body
- Stainless Steel Bead Chain (except for Waste)
- Integral Tank Vent with Flame Arrestor and Anti Surge Valve (on vented styles only)
- Deck Plate Key Not Required

Ordering Info

| Marked For | Cap Type | Neck | Dealer Pkg.** 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|------------|-------------------------|------|--|--------------------------|-------------------------------------|
| Diesel | Chrome Angled-Vented | | 0590DPDCHR* | 0590D00CHR* | 5.0/18.9 |
| Water | Chrome Angled-Vented | | 0590DPWCHR | 0590W00CHR | 5.0/18.7 |
| Diesel | Chrome Straight-Vented | | 0591DPDCHR* | 0591D00CHR* | 5.0/18.1 |
| Water | Chrome Straight-Vented | | 0591DPWCHR | 0591W00CHR | 5.0/17.5 |
| Diesel | Chrome Strght-NonVented | | 0564DPDCHR* | 0564D00CHR* | 5.0/21.0 |
| Water | Chrome Strght-NonVented | | 0564DPWCHR | 0564W00CHR | 5.0/21.0 |
| Waste | Chrome Strght-NonVented | | 0563DP0CHR | 0563000CHR | 5.0/17.5 |

Tech Info

For Hose Size: 1-1/2"
 Screw Size: #8
 Mounting Hole Dia.: 2-1/8"
 O.D. Flange: 3-3/8"
Vented
 For Vent Hose: 5/8"
 Neck Length: 2-7/16"
Non-Vented
 Neck Length: 3-1/8"



*Note: Consider using the Mounting Ring (Fig. 0540DPRBLK) for all installations. DP package includes mounting ring. See Page E-36

SPARE PARTS ORDERING INFORMATION

Figs. 0564/0590/0591 Gas Cap, O-Ring & Retainer: 0590DPG99A Figs. 0564/0590/0591 Diesel Cap, O-Ring & Retainer: 0590DPD99A
 Figs. 0564/0590/0591 Water Cap, O-Ring & Retainer: 0590DPW99A Fig. 0563 Waste Cap with O-Ring: 0563DP099A
 O-Ring Only: 054000099B

NOTE: Fig. 0563 Complies with Adopted Standards on "Fittings" A.B.Y.C. Recommended Practices Standards Covering Sewage Holding and/or Treatment Devices for Marine Waste Systems.





PERKO®

EPA GAS DECK FILLS AND MATCHING WATER FILLS FOR 1-1/2" HOSE

Figs. 0642 & 0643 Sealed Ratcheting Cap Gas Fills
Figs. 0662 & 0663 Sealed Ratcheting Cap Gas Fills with Vacuum/Over Pressure Relief (VOPR)



CONSTRUCTION:

- Black or White Polymer Cap
- Black Polymer Body
- **Figs. 0642 & 0643**
- EPA Compliant Sealed Cap
- **Figs. 0662 & 0663**
- EPA Compliant Sealed Cap with Vacuum /Over Pressure Relief Valve



Figs. 0642 & 0663

Figs. 0642 & 0662

EPA Compliant Sealed Fuel Fill Ordering Information

| Marked For | Sealed Cap | Type | Neck | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Lbs. DP/OEM Bulk |
|------------|-------------|-----------|----------|---|--------------------------|------------------------------|
| Gas | Blk Polymer | No VOPR | Angled | ----- | 0642G00BLK | --/10.3 |
| Gas | Wht Polymer | No VOPR | Angled | ----- | 0642G00WHT | --/10.3 |
| Gas | Blk Polymer | No VOPR | Straight | ----- | 0643G00BLK | --/11.2 |
| Gas | Wht Polymer | No VOPR | Straight | ----- | 0643G00WHT | --/11.2 |
| Gas | Blk Polymer | With VOPR | Angled | 0662DPGBLK | 0662G00BLK | 3.0/10.3 |
| Gas | Wht Polymer | With VOPR | Angled | 0662DPGWHT | 0662G00WHT | 3.0/10.3 |
| Gas | Blk Polymer | With VOPR | Straight | 0663DPGBLK | 0663G00BLK | 3.0/11.2 |
| Gas | Wht Polymer | With VOPR | Straight | 0663DPGWHT | 0663G00WHT | 3.0/11.2 |

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 O.D. Flange: 3-3/8"
 Neck Length: 2-7/16"
 Mounting Hole Dia.: 2-1/8"
 Screw Size: #8

For Spare Cap Ordering Information See Page E-39

These fills meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.



Figs. 0542 & 0543 - Vented Water Fills - Patent Nos. 5,275,213 & 5,327,946

CONSTRUCTION:

- Black or White Polymer Cap with Black Polymer Body & Strap
- Integral Tank Vent with Flame Arrestor and Anti Surge Valve
- FIG. 1247 Deck Plate Key Included



Fig. 1247



Fig. 0543 Water

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 O.D. Flange: 3-3/8"
 Neck Length: 2-7/16"
 Mounting Hole Dia.: 2-1/8"
 Screw Size: #8

Fig. 0542 Water

Ordering Info

| Marked For | Cap Type | Neck | Dealer Pkg. 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|------------|------------|----------|---------------------------------------|-----------------------|----------------------------------|
| Water | Black Poly | Angled | 0543DPWBLK | 0543W00BLK | 3.0/9.2 |
| Water | Black Poly | Straight | 0542DPWBLK | 0542W00BLK | 3.0/9.2 |

SPARE PARTS ORDERING INFORMATION

Black Water Cap, O-Ring & Retainer: 0542DPW99B
 White Water Cap, O-Ring & Retainer: 0542DPW99W O-Ring Only: 054000099B

Figs. 1418 & 1419 - Sealed Flip Top Cap Gas Fills

CONSTRUCTION:

- Black or White Polymer
- Integral Tank Vent with Flame Arrestor
- No Deck Plate Key or Ground Wire Required
- Flip Top Cap



Fig. 1418

Fig. 1419

EPA Compliant Sealed Fuel Fill Order Info

| Cap | Neck | OEM Bulk Pkg. 25 Pcs. | Shipping Weight Lbs. |
|-------------|------------|-----------------------|----------------------|
| Blk Polymer | 35° Angled | 1418G00BLK | 9.9 |
| Blk Polymer | Straight | 1419G00BLK | 7.6 |
| Wht Polymer | Straight | 1419G00WHT | 7.6 |

Tech Info

For Hose Size: 1-1/2"
 For Vent Hose: 5/8"
 Neck Length: 2-7/16"
 Screw Size: #10



These fills meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.



Fig. 0577



Alternative Style Cap Available. Contact Factory.



Fig. 1247

Fig. 0577 - Vented Fuel Fill for 2 Inch Hose

Patent No. 5,275,213

CONSTRUCTION:

- Chrome Plated Bronze
- Integral Tank Vent with Flame Arrestor
- Deck Plate Key, O-Ring and Integral Retainer on Cap Included
- Ground Wire Required

AVAILABLE IN
MARINIUM
Aluminum-Alloy
For Complete
Ordering Info:
See Pgs R-183-184

| Ordering Info | | |
|------------------------------|-------------------|------------------------------|
| Marked For: Gas Diesel | Std. Pkg. - 1 Pc. | Ship Wt. Carton Lbs. Std Pkg |
| | 0577G00CHR* | 2.0 |
| | 0577D00CHR | 2.0 |

| Tech Info |
|---------------------|
| For Fuel Hose: 2" |
| For Vent Hose: 5/8" |
| Neck Length: 3-5/8" |
| Screw Size: #8 |



Fig. 0579



Alternative Style Cap Available. Contact Factory.



Fig. 1247

Fig. 0579 - Angled Vented Fuel Fill for 2 Inch Hose

Patent No. 5,275,213

CONSTRUCTION:

- Chrome Plated Bronze
- Integral Tank Vent with Flame Arrestor
- Angled Neck
- Deck Plate Key, O-Ring and Integral Retainer on Cap Included
- Ground Wire Required

AVAILABLE IN
MARINIUM
Aluminum-Alloy
For Complete
Ordering Info:
See Pgs R-183-184

| Ordering Info | | |
|------------------------------|-------------------|--------------------------------|
| Marked For: Gas Diesel | Std. Pkg. - 1 Pc. | Ship Wt. Carton Lbs. Std. Pkg. |
| | 0579G00CHR* | 2.5 |
| | 0579D00CHR | 2.4 |

| Tech Info |
|---------------------|
| For Fuel Hose: 2" |
| For Vent Hose: 5/8" |
| Neck Length: 4-3/4" |
| Screw Size: #8 |



Fig. 0576



Fig. 1247

Fig. 0576 - Non Vented Fuel Fill for 2" Hose

CONSTRUCTION:

- Chrome Plated Bronze
- Deck Plate Key, O-Ring and Retainer on Cap Included
- Ground Wire Required

| Ordering Info | | |
|------------------------------|-----------------|--------------------------------|
| Marked For: Gas Diesel | Std. Pkg. 1 Pc. | Ship Wt. Carton Lbs. Std. Pkg. |
| | 0576G00CHR* | 1.2 |
| | 0576D00CHR | 1.2 |

| Tech Info |
|----------------------------|
| For Hose Size: 2" |
| O.D. Flange: 3-3/8" |
| Neck Length: 3-5/8" |
| Mounting Hole Dia.: 2-1/4" |
| Screw Size: #8 |

SPARE PARTS ORDERING INFORMATION

Gas Cap & O-Ring: 0576DPG99A Diesel Cap & O-Ring: 0576DPD99A
Retaining Ring: 0537DP2 Deck Plate Key: 1247DP0BLK

*NOTE: These Items Meet the Requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems, 33 CFR 183. Fills shown on this page **DO NOT** meet the requirements for 40 CFR 1060 sub part B Emissions Standards and Related Requirements.



PERKO® NON-EPA STYLE GAS FILLS FOR 1-1/2" HOSE

Figs. 0540, 0541, 0542, 0543, 0580, 0581, 0582, 0583, 0590 & 0591 - Vented Gas Fills

Patent Nos. 5,275,213 & 5,327,946

CONSTRUCTION:

- Black Polymer Body with Stainless Steel Bead Chain (except Figs 0542 & 0543)
- Integral Tank Vent with Flame Arrestor and Anti Surge Valve
- Deck Plate Key Included

Figs. 0580, 0581, 0582 & 0583

- Chrome Plated Bronze or Stainless Steel Scalloped Cap
- Fig 0580 & 0581 Color Coded Metallic Insert
- Fig 0582 & 0583 Color Coded Resin Insert



Fig. 0580 Fig. 0581 Fig. 0582 Fig. 0583



Fig. 1241

Figs. 0540, 0541, 0590 & 0591
Chrome Plated Bronze Cap



Fig. 0540
Shown with
Marinium Cap

Fig. 0541

Fig. 0590

Fig. 0591

Figs. 0542 & 0543
Black or White Polymer
Top with Polymer Tether



Fig. 1247

Fig. 0542 Fig. 0543

Ordering Info - Non-EPA Vented Gas Fills

| Marked For | Cap Type | Neck | Dealer Pkg - 5 Cds | | Ship Wt. Carton Lbs. |
|------------|------------|----------|--------------------|-----------------------|----------------------|
| | | | 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | |
| Gas | Chrome | Angled | 0540DPGCHR* | 0540G00CHR* | 4.2/15.7 |
| Gas | Chrome | Straight | 0541DPGCHR* | 0541G00CHR* | 4.1/15.2 |
| Gas | Black Poly | Angled | 0542DPGBLK* | 0542G00BLK* | 3.0/9.2 |
| Gas | White Poly | Angled | 0542DPGWHT* | 0542G00WHT* | 3.0/9.2 |
| Gas | Black Poly | Straight | 0543DPGBLK* | 0543G00BLK* | 3.0/9.2 |
| Gas | White Poly | Straight | 0543DPGWHT* | 0543G00WHT* | 3.0/9.2 |
| Gas | Chrome | Angled | ----- | 0580G00CHR* | ---/17.2 |
| Gas | Stainless | Angled | ----- | 0580G00STS* | ---/15.8 |
| Gas | Chrome | Straight | ----- | 0581G00CHR* | ---/17.2 |
| Gas | Stainless | Straight | ----- | 0581G00STS* | ---/15.8 |
| Gas | Chrome | Angled | 0582DP0CHR* | 0582G00CHR* | 4.5/17.2 |
| Gas | Stainless | Angled | ----- | 0582G00STS* | ---/15.8 |
| Gas | Chrome | Straight | 0583DP0CHR* | 0583G00CHR* | 4.5/17.2 |
| Gas | Stainless | Straight | ----- | 0583G00STS* | ---/15.8 |
| Gas | Chrome | Angled | 0590DPGCHR* | 0590G00CHR* | 5.0/18.9 |
| Gas | Chrome | Straight | 0591DPGCHR* | 0591G00CHR* | 5.0/18.6 |

Tech Info

For Hose Size: 1-1/2"
For Vent Hose: 5/8"
O.D. Flange: 3-3/8"
Neck Length: 2-7/16"
Mounting Hole Dia.: 2-1/8"
Screw Size: #8

AVAILABLE IN
MARINIUM
Aluminum-Alloy
For Complete
Ordering Info:
See Pgs R-183-184



Fig. 0551

Fig. 0552

Figs. 0551, 0552, 0557 & 0564 - Non-Vented Gas Fills

CONSTRUCTION:

- Black Polymer Body with Stainless Steel Bead Chain
- Deck Plate Key Included

Figs. 0557 & 0564 Chrome Plated Bronze Cap

Figs 0551 & 0552 Chrome Plated Bronze or Stainless Steel Scalloped Cap

- Fig 0551 Color Coded Metallic Insert
- Fig 0552 Color Coded Resin Insert



Fig. 0557

Fig. 0564



Ordering Info - Non-Vented Gas Fills

| Marked For | Cap Type | Neck | Dealer Pkg-5 Cds | | Ship Wt. Carton Lbs. |
|------------|-----------|----------|------------------|-----------------------|----------------------|
| | | | 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | |
| Gas | Chrome | Straight | ----- | 0551G00CHR* | ---/20.5 |
| Gas | Stainless | Straight | ----- | 0551G00STS* | ---/18.0 |
| Gas | Chrome | Straight | 0552DP0CHR* | 0552G00CHR* | 4.9/19.8 |
| Gas | Stainless | Straight | ----- | 0552G00STS* | ---/18.5 |
| Gas | Chrome | Straight | 0557DPGCHR* | 0557G00CHR* | 4.0/18.0 |
| Gas | Chrome | Straight | 0564DPGCHR* | 0564G00CHR* | 5.0/21.0 |

Tech Info

For Hose Size: 1-1/2"
O.D. Flange: 3-3/8"
Neck Length: 3-1/8"
Mounting Hole Dia.: 2-1/8"
Screw Size: #8

*Note: Consider using the Mounting Ring (Fig. 0540DPBRLK) for all installations. DP package includes mounting ring. See Page E-36

For Spare Cap Ordering Information See Page E-38

NOTE: These Fills Meet the Requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems, 33 CFR 183. Fills shown on this page DO NOT meet the requirements for 40 CFR 1060 sub part B Emissions Standards and Related Requirements.



Figs. 1318 & 1319 - Vented Flip Top Cap Fills For 1-1/2" Hose

Patent No. 5,275,213

CONSTRUCTION:

- Black or White Polymer
- Integral Tank Vent with Flame Arrestor
- No Deck Plate Key or Ground Wire Required
- Flip Top Cap



Fig. 1318



Fig. 1319

Fig. 1318 - 35° Angled Neck
Fig. 1319 - Straight Neck



8

Ordering Info

| Marked For | Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|------------|---|--------------------------|--|
| Gas | 1318DPGBLK* | 1318G00BLK* | 5.5/17.8 |
| Gas | 1319DPGBLK* | 1319G00BLK* | 4.7/13.5 |
| Gas | 1319DPGWHT* | 1319G00WHT* | 4.7/14.1 |
| Water | 1319DPWBLK | 1319W00BLK | 4.7/14.0 |
| Water | 1319DPWWHT | 1319W00WHT | 4.7/13.9 |

Tech Info

For Hose Size: 1-1/2"
For Vent Hose: 5/8"
Neck Length: 2-7/16"
Screw Size: #10

Fig. 1613 - Non-Vented Polymer Gas Fill for 1-1/2" Hose

CONSTRUCTION:

- Fiber Reinforced, U.V. Stabilized Black Polymer
- No Deck Plate Key or Ground Wire Required
- Easy-Grip Cap
- O-Ring and Cap Retainer Included



Fig. 1613

Ordering Info

| Marked For | Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|------------|---|--------------------------|--|
| Gas | 1613DP0BLK* | 1613000BLK* | 2.0/13.9 |

Tech Info

For Hose Size: 1-1/2"
O.D. Flange: 3-1/16"
Neck Length: 2-7/16"
Mounting Hole Dia.: 1-3/4"
Screw Size: #8

SPARE PARTS ORDERING INFORMATION

Cap with O-Ring and Retainer: 161300099A O-Rings (2 per bag): 1313DP099A

*NOTE: These Items Meet the Requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems, 33 CFR 183. Fills shown on this page DO NOT meet the requirements for 40 CFR 1060 sub part B Emissions Standards and Related Requirements.



NON-EPA STYLE GAS FILLS AND MATCHING DIESEL, WATER AND WASTE FILLS FOR 1-1/2" HOSE

Fig. 0520 - Non-Vented Fuel & Water Fills for 1-1/2" Hose
Fig. 0507 - Waste Deck Plate for Hose

CONSTRUCTION:

- Chrome Plated Bronze
- Deck Plate Key and O-Ring Included
- Retainer on Cap (Fig. 0520 only)
- Cap Has a Slot Between the Holes
- Ground Wire Required on Fig. 0520 Gas Fills.

Fig. 0520
Gas, Diesel & Water



Fig. 0507
Waste

| Ordering Info | | | |
|---------------|---|--------------------------|-------------------------------------|
| Marked For | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
| Gas | 0520DPGCHR* | 0520G00CHR* | 4.2/19.9 |
| Diesel | 0520DPDCHR | 0520D00CHR | 4.2/19.9 |
| Water | 0520DPWCHR | 0520W00CHR | 4.2/19.9 |
| Waste | 0507DP0CHR | 0507000CHR | 4.0/20.0 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-1/8" |
| Neck Length: 3-1/2" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |



Fig. 1248

SPARE PARTS ORDERING INFORMATION

Fig. 0520 Cap with O-Ring and Retainer: 0520DP099A.
 Fig. 0507 Waste Cap with O-Ring: 0507DP099A.
 O-Rings Only (2 per bag): 0520DP099B Deck Plate Key: 12487-8DP.

Fig. 1270 - Non-Vented Fuel & Water Fills for 1-1/2" Hose
Fig. 1269 - Waste Deck Plate for Hose

CONSTRUCTION:

- Chrome Plated Zinc Alloy
- Black Polymer Cap
- Deck Plate Key and O-Ring Included
- Integral Retainer on Cap (Fig. 1270 only)
- Cap Has a Slot Between the Holes
- Ground Wire Required on Gas Fills

Fig. 1270
Gas, Diesel & Water



Fig. 1269
Waste

| Ordering Info | | | |
|---------------|---|--------------------------|-------------------------------------|
| Marked For | Dealer Pkg. - 5 Cards 1 Pc. per Card | OEM Bulk Pkg. 25 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
| Gas | 1270DPGCHR* | 1270G00CHR* | 4.0/18.5 |
| Diesel | 1270DPDCHR | 1270D00CHR | 4.0/18.5 |
| Water | 1270DPWCHR | 1270W00CHR | 4.0/18.5 |
| Waste | 1269DP0CHR | 1269000CHR | 3.9/18.0 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-1/8" |
| Neck Length: 3-1/2" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |



Fig. 1248

SPARE PARTS ORDERING INFORMATION

Fig. 1270 Gas Cap with O-Ring and Retainer: 1270DPG99A
 Fig. 1270 Diesel Cap with O-Ring and Retainer: 1270DPD99A
 Fig. 1270 Water Cap with O-Ring and Retainer: 1270DPW99A
 Fig. 1269 Waste Cap with O-Ring: 1269DP099A
 O-Rings Only (2 per bag): 0513DP8 Deck Plate Key: 12487-8DP

NOTE: Figs. 0507 & 1269 Comply with Adopted Standards on "Fittings" A.B.Y.C. Recommended Practices Standards Covering Sewage Holding and/or Treatment Devices for Marine Waste Systems.

*NOTE: These Items Meet the Requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems, 33 CFR 183. Fills shown on this page DO NOT meet the requirements for 40 CFR 1060 sub part B Emissions Standards and Related Requirements.



NON-EPA STYLE GAS FILLS AND DIESEL FILLS FOR 1-1/2" HOSE

Fig. 0599 - Non-Vented Gas Fill with Locking Cap for 1-1/2" Hose - Patent No. 3,828,714



Fig. 0599

CONSTRUCTION:

- Chrome Plated Bronze Flange and Black Polymer Body
- Black Polymer Cap with Strap
- Grounding Screw Included
- Cap Retainer and Gasket
- Locking Cap Has a Cover for the Key Hole

| Ordering Info | | | |
|---------------|----------------|---------------|-------------|
| Marked For | Dealer Pkg. | OEM Bulk Pkg. | Ship Wt. |
| | 5 Cards | 25 Pcs. | Carton Lbs. |
| Gas | 1 Pc. per Card | 0599G00CHR* | DP/OEM Bulk |
| Diesel | 0599DPGCHR* | 0599D00CHR | 3.1/13.5 |
| | 0599DPDCHR | | 3.1/13.5 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-3/8" |
| Neck Length: 3-1/8" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #8 |

SPARE PARTS ORDERING INFORMATION
Cap with O-Ring and 2 Keys: 1324DP1BLK.

Figs. 1313 & 1399 - Gas Fills for 1-1/2" Hose - Patent No. 3,828,714

CONSTRUCTION:

- Chrome Plated Zinc Alloy with Black Polymer Flange
- Black Polymer Cap with Strap
- Grounding Screw Included
- Cap Retainer and Gasket
- Fig. 1399 Locking Cap Has a Cover for the Key Hole



Fig. 1313

| Ordering Info | | | |
|---------------|----------------|---------------|-------------|
| Marked For | Dealer Pkg. | OEM Bulk Pkg. | Ship Wt. |
| | 5 Cards | 50 Pcs. | Carton Lbs. |
| Gas* | 1 Pc. per Card | 1313000CHR | DP/OEM Bulk |
| Gas w/Lock* | 1313DP0CHR | 1399000CHR | 3.1/24.7 |
| | 1399DP0CHR | | 3.6/25.6 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-1/8" |
| Neck Length: 1-7/8" |
| Mounting Hole Dia.: 2-1/8" |
| Screw Size: #6 |

SPARE PARTS ORDERING INFORMATION

Non-Locking Cap: 0126DP0BLK Locking Cap with 2 Keys: 1324DP0BLK

Fig. 1399

Fig. 0527 - Gas Fill for 1-1/2" Hose

CONSTRUCTION:

- Chrome Plated Bronze
- 35° Angled Hose Bib
- Deck Plate Key, O-Ring and Retaining Cable on Cap Included
- Cap Has A Slot Between the Holes
- Ground Wire Required



Fig. 0527



Fig. 1247

| Ordering Info | | |
|---------------|-----------------------|-------------|
| Marked For | Standard Pkg. - 1 Pc. | Ship Wt. |
| | Gas | 0527G08CHR* |
| | | Carton Lbs. |
| | | Std. Pkg. |
| | | 2.7 |

| Tech Info |
|----------------------------|
| For Hose Size: 1-1/2" |
| O.D. Flange: 3-1/2" |
| Neck Length: 4-7/8" |
| Mounting Hole Dia.: 2-1/4" |
| Screw Size: #10 |

SPARE PARTS ORDERING INFORMATION

Cap with O-Ring and Retainer: 0528DP899A O-Rings Only (2 per bag): 0513DP8
Deck Plate Key: 1247DP0BLK

*NOTE: These Items Meet the Requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems, 33 CFR 183. Fills shown on this page DO NOT meet the requirements for 40 CFR 1060 sub part B Emissions Standards and Related Requirements.



NON-EPA STYLE GAS, DIESEL, WATER, WASTE AND UNMARKED FILLS FOR PIPE

Fig. 0528 - Fuel, Water & Unmarked Fills for Pipe

Fig. 0524 - Waste Deck Plate for Pipe

CONSTRUCTION:

- Cast Bronze, Plain or Chrome Plated
- 1-1/4 and 1-1/2 Inch Caps Have a Slot Between the Holes
- Deck Plate Key and O-Ring Included
- Sizes 9, 10 & 11 Have 4 Mounting Holes



Fig. 1248



Fig. 0528 Unmarked Shown in Marinium



Fig. 0528 Gas



Fig. 0528 Diesel



Fig. 0528 Water



Fig. 0524 Waste

AVAILABLE IN

Marinium®
Aluminum-Alloy

For Complete
Ordering Info:
See Pgs R-185-186

Ordering & Tech Information

For Unmarked Fills

| Pipe Size Inches | O.D. Flange Inches | Plain Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze Std. Pkg. - 1 Pc. | Chr. Pltd Bronze OEM Bulk Pkg. 10 Pcs. | Ship Wt. Carton Lbs. PLB/CHR/OEM Bulk |
|------------------|--------------------|--------------------------------|--------------------------------------|--|---------------------------------------|
| 1 | 2-7/8 | 0528006PLB | 0528006CHR | ----- | 0.8/0.8/-- |
| 1-1/4 | 3-5/16 | 0528007PLB | 0528007CHR | ----- | 0.8/0.8/-- |
| 1-1/2 | 3-5/8 | 0528008PLB | 0528DP8CHR* | 0528008CHR | 1.0/4.7/9.4 |
| 2 | 4-1/4 | 0528009PLB | 0528009CHR | ----- | 2.0/2.1/-- |
| 2-1/2 | 4-5/8 | 0528010PLB | 0528010CHR | ----- | 2.0/2.1/-- |
| 3 | 5-3/8 | 0528011PLB | 0528011CHR | ----- | 3.0/3.1/-- |

For Gas Fills**

| Pipe Size Inches | O.D. Flange Inches | Plain Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze OEM Bulk Pkg. 10 Pcs. | Ship Wt. Carton Lbs. PLB/CHR/OEM Bulk |
|------------------|--------------------|--------------------------------|--------------------------------------|--|---------------------------------------|
| 1-1/2 | 3-5/8 | 0528G08PLB | 0528DPGCHR* | 0528G08CHR | 1.0/5.0/9.5 |
| 2 | 4-1/4 | ----- | 0528G09CHR | 0528G09CHR | --/2.1/18.0 |

For Diesel Fills

| Pipe Size Inches | O.D. Flange Inches | Plain Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze OEM Bulk Pkg. 10 Pcs. | Ship Wt. Carton Lbs. PLB/CHR/OEM Bulk |
|------------------|--------------------|--------------------------------|--------------------------------------|--|---------------------------------------|
| 1-1/2 | 3-5/8 | 0528D08PLB | 0528DPDCHR* | 0528D08CHR | 1.0/5.1/9.5 |
| 2 | 4-1/4 | 0528D09PLB | 0528D09CHR | ----- | 2.0/2.0/-- |

For Water Fills

| Pipe Size Inches | O.D. Flange Inches | Plain Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze Dealer Pkg. 5 Pcs. | Chr. Plated Bronze OEM Bulk Pkg. 10 Pcs. | Ship Wt. Carton Lbs. PLB/CHR/OEM Bulk |
|------------------|--------------------|--------------------------------|---------------------------------------|--|---------------------------------------|
| 1-1/2 | 3-5/8 | 0528W08PLB | 0528DPWCHR | 0528W08CHR | 1.0/5.0/9.0 |

For Waste Fills

| Pipe Size Inches | O.D. Flange Inches | Plain Bronze Std. Pkg. - 1 Pc. | Chr. Plated Bronze Dealer Pkg. 5 Pcs. | Chr. Plated Bronze OEM Bulk Pkg. 10 Pcs. | Ship Wt. Carton Lbs. PLB/CHR/OEM Bulk |
|------------------|--------------------|--------------------------------|---------------------------------------|--|---------------------------------------|
| 1-1/2 | 3-5/8 | ----- | 0524DP0CHR | 0524000CHR | 4.8/9.4 |

Screw Sizes: 2-1/2 and 3 Inch Deck Plates #10, All Others #8.

* Dealer Package 5 Pcs., 1 Pc. per Card

SPARE PARTS ORDERING INFORMATION

| Pipe Size Inches | Plain Bronze Cap with O-Ring | Chr. Plated Bronze Cap with O-Ring | Chr. Plated Bronze Waste Cap w/O-Ring | O-Rings Only (2/bag, 5 bags/Pkg) | Spare Key |
|------------------|------------------------------|------------------------------------|---------------------------------------|----------------------------------|--------------|
| 1 | 0528P0699A | 0528C0699A | ----- | 0513006 | 1248006DP*** |
| 1-1/4 | 0528P0799A | 0528C0799A | ----- | 0513007 | 12487-8DP*** |
| 1-1/2 | 0528P0899A | 0528DP899A* | 0524DP099A | 0513DP8 | 12487-8DP*** |
| 2 | 0528P0999A | 0528C0999A | ----- | 0513009 | 1248009DP*** |
| 2-1/2 | 0528P1099A | 0528C1099A | ----- | 0513010 | 1248010ZNC |
| 3 | 0528P1199A | 0528C1199A | ----- | 0513011 | 052801199C |

* Dealer Pkg. - 5 pcs. (1 pc. per card) *** Dealer Pkg. - 10 pcs. (1 pc. per card)

NOTE: Fig. 0524 Complies with Adopted Standards on "Fittings" A.B.Y.C. Recommended Practices Standards Covering Sewage Holding and/or Treatment Devices for Marine Waste Systems.

*NOTE: These Items Meet the Requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems, 33 CFR 183. Fills shown on this page DO NOT meet the requirements for 40 CFR 1060 sub part B Emissions Standards and Related Requirements.



Counter Display



Fig. 0525

Fig. 0525 - Fuel System Locking Insert for 1-1/2" Vented Fills

CONSTRUCTION:

- Black Polymer with Zinc Alloy Lock Cylinder
- Dual Purpose Key Opens Fill Cap & Locking Insert
- Fits Most PERKO® Vented Fills
- Available in Dealer Package or 12 Piece Countertop Display

Note: Not for use with with EPA Compliant gas fills with Vacuum Over Pressure Relief valves (VOPR) Perko Fig No's 0660, 0662, 0780, 0782 & 0790

Ordering Info & Tech Info

| | | |
|---|---|--|
| Dealer Pkg. - 5 Cards 1 Pc. Per Card 0525DP0BLK | P.O.P. Display 12 Pcs. 0525DP0DIS | Ship Wt. Carton Lbs. DP/P.O.P. Display 1.2/3.3 |
|---|---|--|

9



Fig. 1324



Fig. 0520 Fill
Shown with
Locking Cap

Fig. 1324 - Fuel System Locking Cap For 1-1/2" Non-Vented Fills

CONSTRUCTION:

- Black Polymer with Gasket
- Built in Lock Cylinder
- Size #0 Fits PERKO Fills 1313 & 1399
- Size #1 Fits PERKO Fills 0520, 0527, 0528, 0557, 0599 and 1270

Ordering Info & Tech Info

| | | |
|---|---|---|
| Dealer Pkg. 5 Cards 1 Pc. Per Card 1324DP0BLK 1324DP1BLK | Cap Outside Thread Diameter Inches 1-15/32 1-7/8 | Ship Wt. Carton Lbs. Dealer Lbs. 1.0 1.1 |
|---|---|---|



Fig. 0540DPR

Fig. 0540 Ring - Spare Mounting Ring

CONSTRUCTION:

- Black Polymer

Installation Note: on the use of Vented Fuel Fills PERKO® Fig. Nos. 0540, 0541, 0542, 0543, 0580, 0581, 0582, 0583, 0590, 0591, 0640, 0641, 0642, 0643, 0680, 0681, 0682, 0683, 0690 & 0691

The use of these heightening rings is required in any application where water might be splashed around a vented fill. The ring raises the opening between the fuel cap and fill an additional 3/8" above the deck surface, thereby reducing the likelihood that splashed water will enter the fuel system through the breathing vent. The split version of the ring is designed for aftermarket use on existing installations. In most cases, it allows the ring to be added without disconnecting fuel and vent hoses from the fill. For new OEM installations, rings are supplied without the split since they can be installed before hoses are connected to the fill.

NOTE: The ring will not prevent water from entering the system if the cap becomes submerged or substantially flooded. If this situation exists, the fill/vent must be moved to a dry location or replaced with a sealed cap and a separate vent located elsewhere.

Ordering Information

| | |
|---|--|
| Dealer Pkg. - 5 Cards 1 Pc. Per Card 0540DPRBLK | OEM Bulk Pkg. 50 Pcs. 0540RNGBLK |
|---|--|



Fig. 0537

Fig. 0537 - Retaining Cable for Deck Plates

CONSTRUCTION:

- Stainless Steel Cable and Fittings
- Stainless Steel Ring and Self Tapping Screw

Ordering Info & Tech Info

| | | | | |
|--|---|--|--|---|
| Fill Hose Size Inches 1-1/2 2 | Ring Dia. Inches 1-3/8 2 | Length Cable Inches 7 7 | Dealer Pkg. - 5 Cards 1 Pc. per Card 0537DP 0537DP2 | Ship Wt. Carton Lbs. Dealer Pkg. 0.4 0.4 |
|--|---|--|--|---|



Fig. 1241 - Deck Plate Key

CONSTRUCTION:

- Black Polymer
- 2 Holes for Key Chain

Fits PERKO 0552, 0568, 0569, 0580, 0581, 0582 and 0583 Deck Plates
 Also fits PERKO 1-1/4" and 1-1/2" Deck Plates
 and Many Other "Slot" Type Opening Deck Plates



Fig. 1241

Ordering Info

| Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|---|--------------------------|--|
| 1241DP0BLK | 1241000BLK | 1.0/2.0 |

Tech Info

Center to Center of Lugs:
1-1/8"
 Length Spade: 1"
 Length Overall: 4"

Fig. 1247 - Deck Plate Key

CONSTRUCTION:

- Black Polymer

Compact Size with Hole for Key Chain. Fits PERKO 1-1/4" and 1-1/2" Deck Plates
 and Many Other "Slot" Type Opening Deck Plates



Fig. 1247

Ordering Info

| Dealer Pkg. 10 Cards 1 Pc. per Card | OEM Bulk Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/OEM Bulk |
|---|--------------------------|--|
| 1247DP0BLK | 1247000BLK | 0.7/0.7 |

Tech Info

Center to Center of Lugs:
1-1/8"
 Length Spade: 1"
 Length Overall: 1-3/4"

Fig. 1248 - Deck Plate Key

CONSTRUCTION:

- Black Polymer or Zinc Alloy

The Keys For 1" Thru 1-1/2" Deck Plates Have a 1 Inch Spade on Handle
 That Fit Many Other "Slot" Type Opening Deck Plates



Fig. 1248

Ordering Info

| For Deck Plate Size Inches | C. to C. of Lugs | Length Overall Inches | Material | Dealer Pkg. 10 Cards 1 Pc. per Card | Std. Pkg. 50 Pcs. | Ship Wt. Carton Lbs. DP/Std. Pkg. |
|----------------------------|------------------|-----------------------|----------|-------------------------------------|-------------------|-----------------------------------|
| 1 | 5/8 | 3-3/8 | Polymer | 1248006DP | ----- | 1.0/--- |
| 1-1/4 & 1-1/2 | 1-1/8 | 3-3/8 | Polymer | 12487-8DP | 12487-8BLK | 1.0/1.4 |
| 2 | 1-11/16 | 4-3/8 | Zinc | 1248009DP | ----- | 2.0/--- |
| 2-1/2 | 2 | 4-3/8 | Zinc | ----- | 1248010ZNC* | ---/0.2 |

*Standard Pkg. - 1 Pc.

Fig. 0826 - Adjustable Deck Plate Key

CONSTRUCTION:

- Chrome Plated Zinc Alloy
- Hardened Steel Pin
- Will Fit Sizes up to 8 Inch Diameter



Fig. 0826






Ordering Info & Tech Info

| Length Overall Inches | Dealer Pkg. - 5 Cards 1 Pc. per Card | Ship Wt. Carton Lbs. Dealer Pkg. |
|-----------------------|--------------------------------------|----------------------------------|
| 8-1/2 | 0826DP0CHR | 3.4 |



REPLACEMENT CAPS FOR DIESEL, WATER, WASTE AND NON-EPA GAS FILLS

***Warning: These caps are not for use with EPA Compliant sealed fuel systems.**

| Style | Description | Used on | Catalog Number |
|---|--|---|---|
|  | Fig 0540 Style Chrome Plated Bronze Vented Cap complete with O-Ring | Figs. 0540, 0541, 0556 & 0557 | Gas: 0540DPG99A* Diesel: 0540DPD99A Water: 0540DPW99A Waste: 0556DPG99A |
|  | Fig 0542 Style Black or White Polymer Vented Cap complete with O-Ring & Retainer | Figs. 0542, 0543, | Gas: Blk: 0542DPG99B* Wht: 0542DPG99W* Water: Blk: 0542DPW99B Wht: 0542DPW99W |
|  | Fig 0582 Style Scalloped Chrome Plated Bronze Vented Cap complete with O-Ring | Figs. 0582 & 0583 | 0582DPC99A* (Includes 3 inserts Gas*, Diesel & Water)  |
|  | Fig 0552 Style Scalloped Chrome Plated Bronze Non-Vented Cap complete with O-Ring | Figs. 0552 & 0569 | 0552DPC99A* (Includes 4 inserts Gas*, Diesel, Water & Waste)  |
|  | Fig 0590 Style Chrome Plated Bronze Vented Cap complete with O-Ring & Retainer. **Note: Fig 0563 Cap is Non-Vented. | Figs. 0563, 0564, 0590 & 0591 | Gas: 0590DPG99A* Diesel: 0590DPD99A Water: 0590DPW99A Waste: 0563DP099A** |
|  | Fig 0520, 0524 & 0507 Style Chrome Plated Bronze Non-Vented Cap complete with O-Ring & Retainer. | Figs. 0507 Waste, 0520 Gas, Diesel, Water 0524 Waste 0528 Various | Fig. 0507: 0507DP099A Fig. 0520: 0520DP099A Fig. 0524: 0524DP099A Fig. 0528: See Page E-35 |
|  | Fig 1270 Style Chrome Plated Zinc Alloy Non-Vented Cap complete with O-Ring & Retainer. | Fig. 1270 | Gas: 1270DPG99A Diesel: 1270DPD99A Water: 1270DPW99A |
|  | Fig 0576 Style Chrome Plated Bronze Vented Cap for 2" Fills complete with O-Ring | Figs. 0576, 0577 & 0579 | Gas: 0576DPG99A* Diesel: 0576DPD99A |
|  | Metallic Insert Kit Replacement decal kit. Contains one each Gas, Diesel, Water & Waste Metallic Decals | Figs. 0580, 0581, 0551 & 0568 | 0030DP0005 |
|  | Resin Insert Kit Replacement decal kit. Contains one each Gas, Diesel, Water & Waste Resin decals | Figs. 0552, 0569, 0582 & 0583 | 0030DP0004 |



REPLACEMENT CAPS FOR EPA COMPLIANT SEALED GAS FILLS

These caps meet the new CARB and EPA requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment.

EPA Compliant Sealed Fuel Fill Caps with Vacuum Over Pressure Relief

| | |
|--|--|
| <p>A</p>  <p>0640/0660 Style For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Chrome Plated Bronze Sealed Gas Cap with O-Ring and Retainer. | <p>E</p>  <p>0680/0780 Style with Metallic Insert Set For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Stainless Steel Scalped Sealed Cap with Color Coded Metallic Decals for Gas, Diesel, Water & Waste with O-Ring and Retainer. |
| <p>B</p>  <p>0642/0662 Style Black For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Black Polymer Sealed Gas Cap with O-Ring and Retainer. | <p>F</p>  <p>0680/0780 Style with No E-15 Insert For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Stainless Steel Scalped Sealed Cap with Red Metallic Decal with O-Ring and Retainer. |
| <p>C</p>  <p>0642/0662 Style White For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • White Polymer Sealed Gas Cap with O-Ring and Retainer. | <p>G</p>  <p>0680/0780 Style with Gray Gas Insert For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Stainless Steel Scalped Sealed Cap with Gray Metallic Decal, O-Ring and Retainer. |
| <p>D</p>  <p>0690/0790 Style For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Chrome Plated Bronze Sealed Gas Cap with O-Ring and Retainer. | <p>H</p>  <p>0682/0782 Style with Resin Insert Set For 1-1/2" Fills for Hose</p> <ul style="list-style-type: none"> • Stainless Steel Scalped Sealed Cap with Red Resin Decals for Gas, Diesel, Water & Waste with O-Ring and Retainer. |



NEW PRODUCT

Dealer Packaged EPA Compliant Sealed Caps **with** Vacuum Over Pressure Relief valve (VOPR)

For use with PERKO® EPA Compliant Fills:

Figs. 0640, 0641, 0642, 0643, 0660, 0661, 0662, 0663, 0680, 0681, 0682, 0683, 0690, 0691, 0780, 0781, 0782, 0783, 0790 & 0791

EPA Compliant Sealed Fuel Fill Cap Ordering Information

| Cap Style | Cap Type | Insert Type | For use with PERKO® EPA Compliant Fills | Dealer Pkg. 5 Pcs. 1 Pc. per Card | Carton Ship Wt. Lbs. Dealer Pkg. |
|-----------|---------------|------------------|---|-----------------------------------|----------------------------------|
| A | Chrome | None | 0640/0641/0660/0661 | 0660DPG99A | 2.6 |
| B | Black Polymer | None | 0642/0643/0662/0663 | 0662DPG99B | 1.3 |
| C | White Polymer | None | 0642/0643/0662/0663 | 0662DPG99W | 1.3 |
| D | Stainless | Metallic | 0680/0681/0780/0781 | 0780DPG98S | 2.2 |
| E | Stainless | Gray Metallic | 0680/0681/0780/0781 | 0780DPG98G | 2.2 |
| F | Stainless | Metallic no E-15 | 0680/0681/0780/0781 | 0780DPG98N | 2.2 |
| G | Stainless | Resin | 0682/0683/0782/0783 | 0782DPG98S | 2.2 |
| H | Chrome | None | 0690/0691/0790/0791 | 0790DPG99A | 2.6 |



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White All-Round Lights



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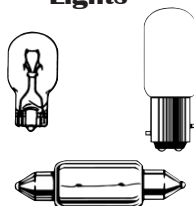
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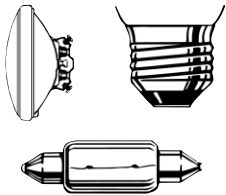
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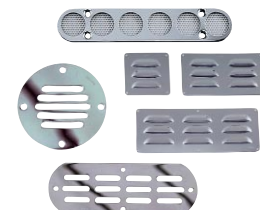
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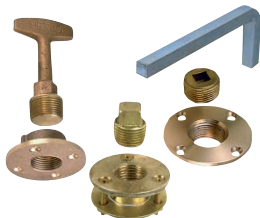
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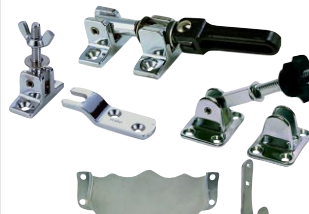
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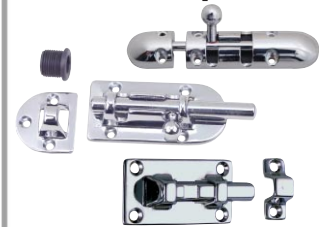
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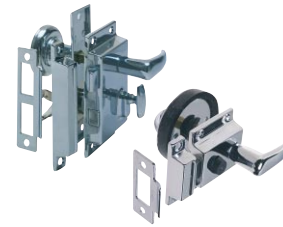
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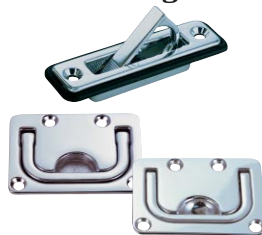
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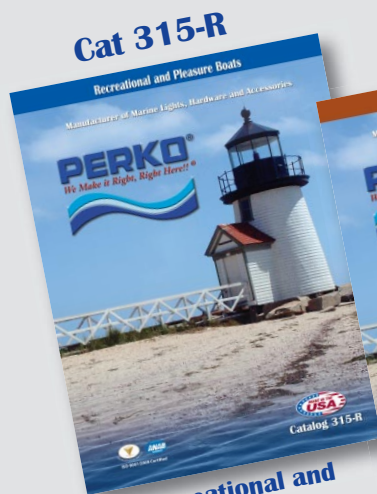
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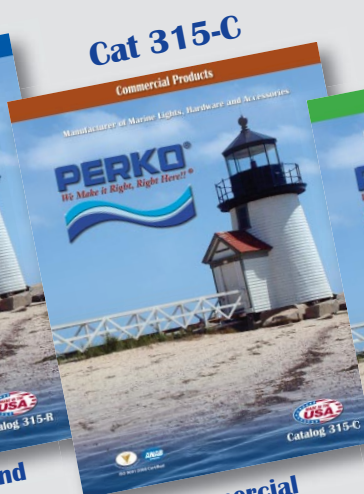


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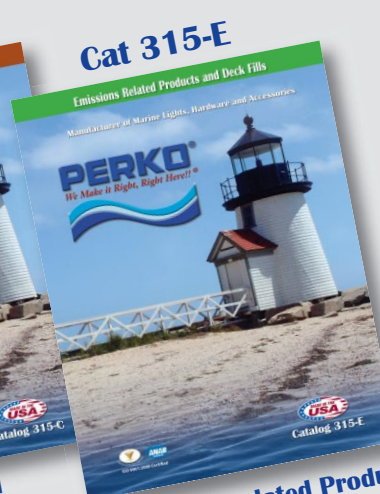
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Recreational and Pleasure Boats



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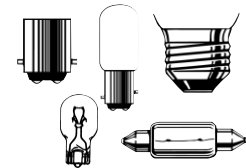
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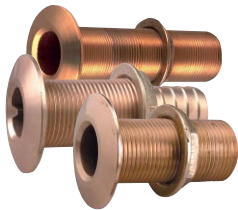
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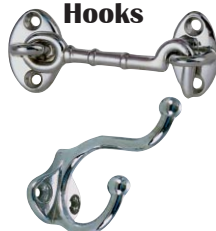
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| 1031 | R | 155 | 1106 | R | 177 | 1172 | C | 20 | 1243 | R | 135 |
| 1032 | R | 155 | 1108 | R | 140 | 1173 | C | 20 | 1244 | R | 148 |
| 1033 | R | 72 | 1109 | C | 38 | 1174 | C | 20 | 1246 | R | 134 |
| 1040 | R | 78 | 1109 | C | 38 | 1177 | R | 150 | 1247 | E | 37 |
| 1043 | R | 127 | 1110 | R | 175 | 1178 | R | 39 | 1248 | C | 94 |
| 1044 | R | 72 | 1111 | C | 28 | 1179 | R | 139 | 1248 | E | 37 |
| 1045 | R | 62 | 1112 | C | 96 | 1180 | R | 139 | 1249 | R | 178 |
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| 1047 | R | 62 | 1113 | C | 21,96 | 1183 | R | 39 | 1253 | C | 38 |
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| 1060 | R | 62 | 1127 | R | 25 | 1198 | R | 141 | 1267 | R | 130 |
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| 1072 | R | 156 | 1130 | C | 26 | 1210 | R | 119 | 1274 | R | 57 |
| 1074 | R | 72 | 1130 | R | 25 | 12111 | R | 31 | 1277 | R | 132 |
| 1075 | C | 91 | 1131 | R | 58 | 1212 | R | 31 | 1278 | R | 132 |
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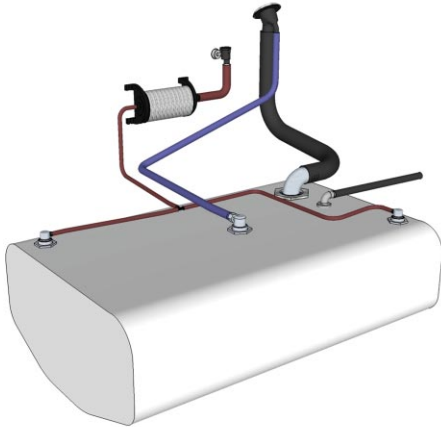
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| 1284 | R | 37 | 1364 | C | 19 | 1461 | R | 53 | 8511 | C | 67 |
| 1287 | R | 149 | 1365 | C | 19 | 1465 | R | 53 | 8511 | R | 89 |
| 1289 | R | 134 | 1366 | C | 19 | 1470 | R | 52 | 8512 | C | 67 |
| 1291 | R | 139 | 1367 | C | 19 | 1601 | R | 28 | 8512 | R | 89 |
| 1293 | R | 144 | 1368 | C | 19 | 1602 | R | 28 | 8603 | C | 70 |
| 1299 | R | 134 | 1369 | C | 18 | 1604 | R | 35 | 8603 | R | 92 |
| 1301 | R | 36 | 1370 | C | 18 | 1607 | R | 35 | 9304 | C | 42 |
| 1302 | R | 133 | 1372 | C | 18 | 1608 | R | 34 | 9501 | C | 44 |
| 1303 | R | 76 | 1373 | C | 18 | 1609 | R | 34 | 9504 | C | 44 |
| 1304 | R | 132 | 1374 | C | 18 | 1611 | R | 55 | 9506 | C | 44 |
| 1305 | R | 122 | 1377 | C | 12 | 1612 | R | 30 | 9508 | C | 44 |
| 1306 | R | 122 | 1377 | R | 24 | 1613 | E | 32 | 9510 | C | 45 |
| 1309 | R | 134 | 1378 | C | 12 | 1614 | R | 30 | 9511 | C | 44 |
| 1310 | R | 28 | 1378 | R | 24 | 1617 | R | 30 | 9512 | C | 44 |
| 1311 | R | 58 | 1379 | C | 12 | 1619 | R | 30 | 9514 | C | 44 |
| 1312 | R | 100 | 1379 | R | 24 | 1622 | R | 56 | 9521 | C | 44,45 |
| 1313 | E | 32,34 | 1380 | C | 12 | 1622L | R | 51 | 9530 | C | 44 |
| 1316 | R | 122 | 1380 | R | 24 | 1624 | R | 49 | 9551 | C | 44 |
| 1318 | E | 32 | 1381 | C | 12 | 1625 | R | 58 | 9560 | C | 46 |
| 1319 | E | 32 | 1381 | R | 24 | 1627 | R | 65 | 9563 | C | 46 |
| 1322 | R | 133 | 1384 | C | 14 | 1628 | R | 65 | 9565 | C | 46 |
| 1323 | C | 36 | 1385 | C | 14 | 1634 | R | 35 | 9566 | C | 46 |
| 1323 | R | 75 | 1386 | C | 14 | 1636 | R | 34 | 9581 | C | 45 |
| 1324 | E | 34,36 | 1387 | C | 14 | 1637 | R | 35 | 9582 | C | 45 |
| 1325 | R | 127 | 1388 | C | 14 | 1638 | R | 35 | 9601 | C | 69 |
| 1326 | R | 122 | 1399 | E | 34 | 1639 | R | 34 | 9601 | R | 91 |
| 1327 | R | 132 | 1400 | R | 54 | 1642 | R | 34 | 9602 | C | 69 |
| 1330 | R | 58 | 1401 | R | 55 | 1656 | R | 53 | 9602 | R | 91 |
| 1331 | R | 44 | 1403 | R | 55 | 1673 | R | 57 | 9603 | C | 69 |
| 1332 | R | 44 | 1404 | R | 55 | 1674 | R | 57 | 9603 | R | 91 |
| 1336 | R | 128 | 1418 | E | 29 | 1678 | R | 39 | 9604 | C | 69 |
| 1342 | C | 17 | 1419 | E | 29 | 1681 | R | 39 | 9604 | R | 91 |
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| 1344 | R | 43 | 1422 | R | 31 | 1684 | R | 39 | 9611 | R | 89 |
| 1345 | C | 17 | 1440 | R | 56 | 1696 | R | 39 | 9612 | C | 67 |
| 1345 | R | 43 | 1440L | R | 51 | 1697 | R | 39 | 9612 | R | 89 |
| 1346 | R | 128 | 1441 | R | 56 | 1901 | C | 48 | 9703 | C | 70 |
| 1347 | R | 48 | 1441L | R | 51 | 1902 | C | 48 | 9703 | R | 92 |
| 1348 | R | 50 | 1442 | R | 49 | 1921 | C | 48 | 9854 | C | 43 |
| 1349 | R | 48 | 1443 | R | 49 | 1922 | C | 48 | | | |
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| 1353 | R | 148 | 1445L | R | 51 | 1930 | C | 49 | | | |
| 1354 | C | 96 | 1447 | R | 49 | 1931 | C | 49 | | | |
| 1354 | R | 148 | 1450 | R | 56 | 1932 | C | 50 | | | |
| 1355 | C | 37 | 1450L | R | 51 | 1936 | C | 50 | | | |
| 1355 | R | 74 | 1451 | R | 52 | 8501 | C | 68 | | | |
| 1356 | C | 37 | 1452 | R | 53 | 8501 | R | 90 | | | |
| 1356 | R | 74 | 1454 | R | 49 | 8502 | C | 68 | | | |
| 1357 | C | 37 | 1455 | R | 56 | 8502 | R | 90 | | | |
| 1357 | R | 74 | 1455L | R | 51 | 8503 | C | 68 | | | |
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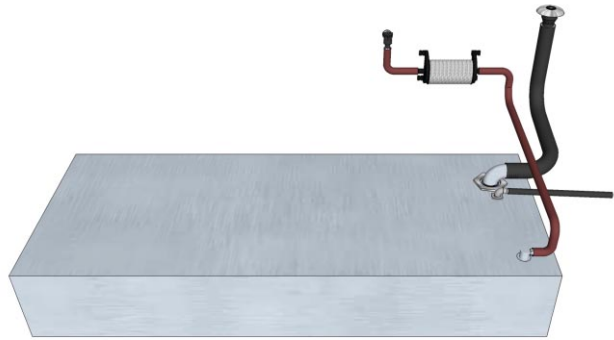
Fuel System Design

Perko can assist with Fuel system design and certification of systems using plastic or aluminum tanks. Consult factory for details.

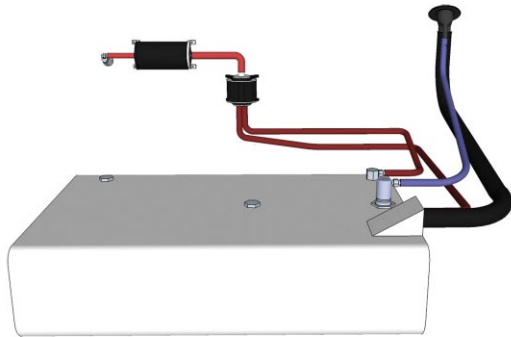
External Venting



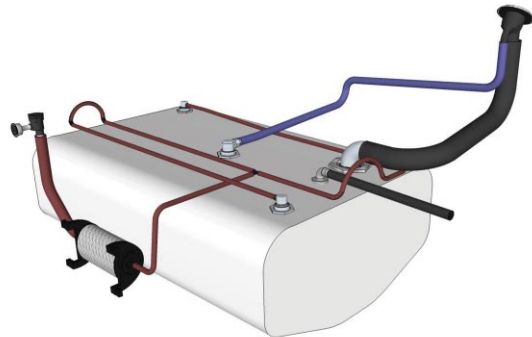
Internal Venting



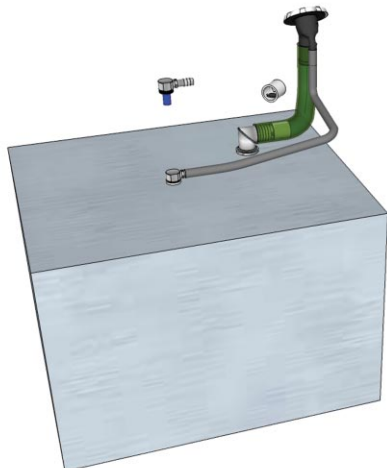
Air/Fuel Separators



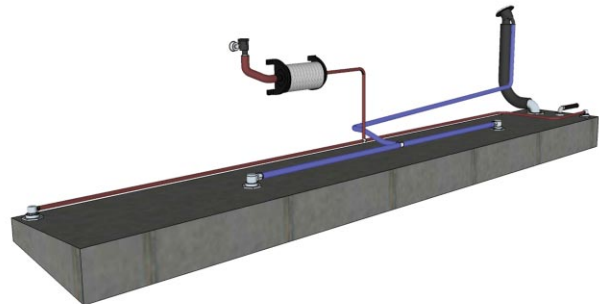
Hard to Place Canisters



Diesel Systems to Prevent Spills



Odd Shaped Tanks



Manufacturer of Marine Lights, Hardware and Accessories

