



# FUEL 129-135

Table of Contents	PAGE
Fuel Caps	129
Anti-Siphon Tubes	132
Fuel Tank Valves	133
Electrical Fuel Tank Selector Valves	135

**VELVAC Original** Indicates an original Velvac product.

**NEW** Indicates a new product added to catalog.

**Revised Part No.** Indicates a revised part number defining “-xx” package quantity.  
Refer to price list for price per package.

**For quantity and packaging information, refer to our price list.**

**Customer Service: 800.783.8871**  
**Fax: 262.786.4101**  
**Email: sales@velvac.com**



NOTE: The information and photographs in this catalog are believed to be accurate and factual as of the print date. Velvac assumes no responsibility for information that may be incorrect or has changed since press time. Product specifications and offerings subject to change without notice.

Velvac is a registered trademark of Velvac, Inc.



**Gas / Diesel Fuel Caps**

Vented aluminum caps meet 49 CFR 393.67 requirements for vehicles built after October 1985.

Vented brass caps are designed for use only on vehicles with non-vented fuel systems built prior to October 1985.

Non-vented brass caps are designed for use only on vehicles equipped with properly vented fuel systems. For complete information on current fuel tank system requirements, see Code of Federal Regulations 49 CFR 393.67



- Available in vented or non-vented feature.
- Fusible meltouts on brass fuel caps for thermal relief.
- Safety chains and crossbars are standard on all caps except Part No. 600009 which features a 14" exterior cable with an attached 3/16" I.D. ring
- Patented Loc-Gard on locking cap protects against moisture and contaminants (US Patent No. 4,706,841).
- All locking fuel caps are supplied with 2 keys.

Aluminum fuel caps are designed only for Diesel applications, whereas, Brass fuel caps are designed for gasoline, diesel and oil applications.

**BRASS FUEL CAPS - Designed for Gasoline or Diesel applications**
**Brass Locking Fuel Caps**

Part No.	Photo	Description	Nominal Size	Threads Per Inch	Across Threads	
					Cap	Filler Neck
600196-6	A	Female, Non-Vented	2	11-1/2	2-1/4"	2-5/16"

**Brass Non-Locking Fuel Caps**

Part No.	Photo	Description	Nominal Size	Threads Per Inch	Across Threads	
					Cap	Filler Neck
600009	B	Female, Non-Vented	2	11-1/2	2-1/4"	2-5/16"
600133	C	Female, Non-Vented	2	11-1/2	2-1/4"	2-5/16"
600007	C	Female, Vented	2	11-1/2	2-1/4"	2-5/16"
600017	D	Male, Vented	2-1/8"	12	2-1/8"	2-1/16"

**REPLACEMENT PARTS FOR BRASS CAPS**

Part No.	Description
600011	Replacement Gasket for Female Brass Caps
600021	Replacement Gasket for Male Brass Caps
600040	Replacement Chain and Crossbar for Brass Caps
600041	Replacement Lock Cam for Female Locking Brass Caps
601050	Replacement Loc-Gard Protection Cap for Female Locking Brass Caps
600176	Replacement Loc-Gard Cap for Female, Non-Vented Locking Brass Caps
600219	Replacement Key No. 19 for Female Locking Brass Fuel Cap
600220	Replacement Key No. 20 for Female Locking Brass Fuel Cap
600221	Replacement Key No. 21 for Female Locking Brass Fuel Cap

**Aluminum Fuel Caps - Designed for Diesel Fuel Applications**

**Aluminum Non-Locking Fuel Caps**

Part No.	Photo	Description	Nominal Size	Threads Per Inch	Across Threads Cap	Across Threads Filler Neck
600135	A	Female, Vented	2"	11-1/2	2-1/4"	2-5/16"
600198	B	Female, Non-Vented	2"	11-1/2	2-1/4"	2-5/16"
600136	C	Female, Vented	2-1/2"	8	2-1/2"	2-9/16"
600186	D	Female, Vented	2"	11-1/2	2-1/4"	2-5/16"
600184	E	Female, Vented Replaces Freightliner A03-12927-4 and Kenworth K071-398**	3"	8	3-3/8"	3-7/16"
600148	F	Female, 1/4 Turn Replaces Freightliner 03-37017-000	3"	N/A	3-1/2"	3-7/16"
600168	G	Female, Non-Vented	4"	8		
600180	H	Female, Vented	4"	8	4-1/2"	4"
600172	I	Male, Non-Vented	4-1/4"	8	4-1/4"	4-1/8"
601065	J	Bayonet Style	4"	N/A	3-7/8"	

**REPLACEMENT PARTS FOR ALUMINUM CAPS**

Part No.	Description
600081	Replacement Gasket for Female 3" Aluminum Fuel Cap
600041	Replacement Lock Cam for Female, Non-Vented, locking Cap
600053	Replacement Lock Cam for Male Locking Cap
600175	Replacement Loc-Gard Protection Cap for Male Locking Cap
600176	Replacement Loc-Gard Protection Cap for Female, Non-Vented, Locking Cap
601063	Replacement Chain and Crossbar for Non-Vented Cap
601069	Replacement Gasket for Non-Vented Cap
600219	Replacement Key No. 19 for Non-Vented, Locking Cap
600220	Replacement Key No. 20 for Non-Vented, Locking Cap
600221	Replacement Key No. 21 for Non-Vented, Locking Cap
601058	Replacement Lock Cam for Bayonet Fuel Cap
601063	Replacement Chain and Crossbar for Bayonet Fuel Cap

Non-Vented caps are designed for use only on vehicles with properly vented fuel systems. For Complete information on current fuel tank system requirements, see Code of Federal Regulations 49 CFR 393.67

\* Freightliners after 1983 and Western Star after 1982 both with diesel fuel tanks with 3" male pipe filler necks.

\*\* Freightliners prior to 1984 and Kenworth after 1984, Peterbilt prior to 1980 and Western Stars prior to 1983 all with diesel fuel tanks with 3" male pipe filler necks.

**Aluminum Locking Fuel Caps**
**NEW**


Part No.	Photo	Description	Nominal Size	Threads Per Inch	Across Threads Cap	Across Threads Filler Neck
600150	K	Female, Non-Vented Application: Freightliner M2	2.5"	8	4-3/8"	4-7/16"
600185-6***	L	Female, Vented Replaces Freightliner A03-12927-6 and Kenworth K071-385-1234**	3"	5-1/2	3-7/16"	3-1/2"
600183-6***	M	Female, Vented Replaces Freightliner A03-15682-6 and Western Star 43301-3403*	3"	8	3-3/8"	3-7/16"
600149	N	Female, 1/4 Turn Replaces Freightliner 03-37017-002	3"	N/A	3-1/2"	3-7/16"
600169-6	O	Female, Non-Vented	4"	8	4-3/8"	4-7/16"
600181-6	P	Female, Vented	4"	8	4-1/2"	4"
600173-6	Q	Male, Non-Vented	4-1/4"	8	4-1/4"	4-1/8"

\*\*\*Keys not available separately

**Filler Neck Adapter Kit**


- Part No. 600191 allows 2" female fuel caps to be installed on filler necks with small inside diameters
- Part No. 600191 allows 2" female fuel caps to be installed on 2-1/2" male filler neck with 8 threads per inch.
- Kits include aluminum adapter, installation instructions and adhesive.

Part No.	Description
600112	Filler Neck Adapter Kit
600191	Filler Neck Adapter Kit

**Saddle Tank Mounting Kit**


- Complete kit for mounting one saddle tank.

Part No.	Description	
602002	Saddle Tank Mt. Kit	
<b>Kit Contents:</b>		
Part No.	Description	Qty
060033	Rubber Pad	4
060034	Spring	4
405049	Lock Nut	4
408060	Hex Bolt	4

**Anti-Siphon Tubes**

**NEW**



Protect your fuel with Velvac's **Anti-Siphon Tube**

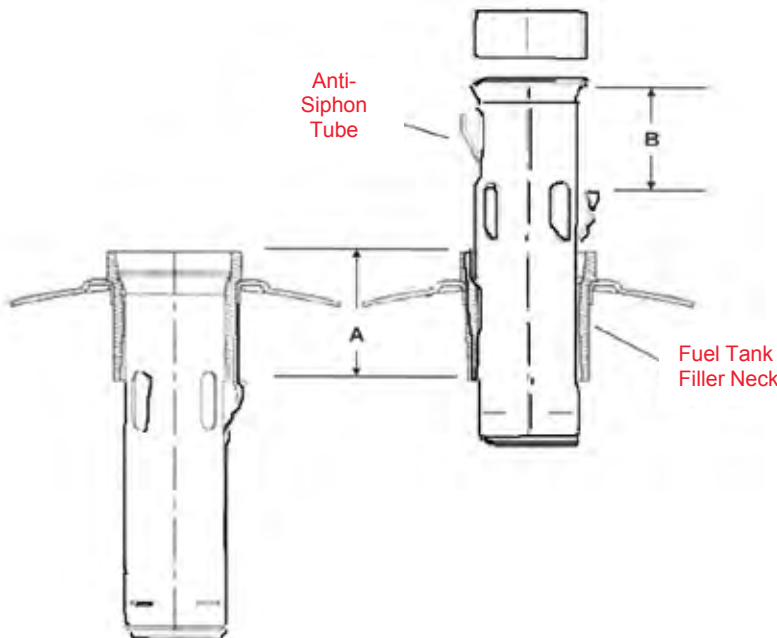
- Makes siphoning fuel impossible- patented aluminum extrusion in the tube
- Durable design- made from 6061 aircraft aluminum tubing with a 0.065" wall thickness
- Vented for fueling- fuel 20+ gallons per minute
- OEM approved design- fits almost every filler neck



Part No.	Dimension "B"	Diameter Filler Neck	Fits Application
600241	3-3/4 inches	3 inches	Fits Heavy Duty Volvo, International and Mack Trucks
600242	3-3/4 inches	2-1/2 inches	Fits Heavy Duty Volvo, International and Mack Trucks
600243	2-3/4 inches	2-1/2 inches	Fits Heavy Duty Kenworth
600244	2-3/4 inches	2-1/4 inches	Fits Heavy Duty Freightliner
600245	2-1/4 inches	2 inches	Fits Medium-Duty Trucks
600246	3-3/4 inches	1.87 inches	Fits Medium-Duty and Reefer trucks

**EASY TO INSTALL**

- 1 Measure the inside diameter of fuel tank filler neck.
- 2 Measure the length (**Dimension "A"**) of the fuel tank filler neck using a tape measure inside the neck.
- 3 Review the available anti-siphon tubes and their dimensions. (**Dimension "B"**) from the underside of the top lip to the tip of the last barb.
- 4 Select an anti-siphon tube with **Dimension B** greater than **Dimension A** to insure that when installed the barbs will catch on the bottom of the filler neck and prevent removal of the anti-siphon tube.
- 5 Insert properly sized anti-siphon tube into filler neck and press into place. If you pull back on the anti-siphon tube after installed and it can be easily removed, it is not sized properly. It is recommended that you re-check the above noted dimensions.



**NOTE: CAN NOT BE REMOVED ONCE INSTALLED**

**Crossover Fuel Line Safety Valve**



- Functions as a "fuse" in the fuel crossover line, automatically shutting off the flow of fuel if the line between a vehicle's main and auxiliary tanks is torn away or obstructed
- Separates before the crossover fuel line ruptures, preventing damage to fuel tank lines, fittings and valves

- Reduces the risk of fire and fuel slick by minimizing fuel loss if crossover fuel line is torn away
- Lightweight aluminum construction
- 3-1/8" length, 1-1/4" diameter

Part No.	Description
060056	Crossover Fuel Line Safety Valve

**Technical Information**

**Flow -**

4.0 gpm minimum at 1.0 psi differential pressure

**Leakage -**

Prior to actuation: zero leakage up to 5.0 psi

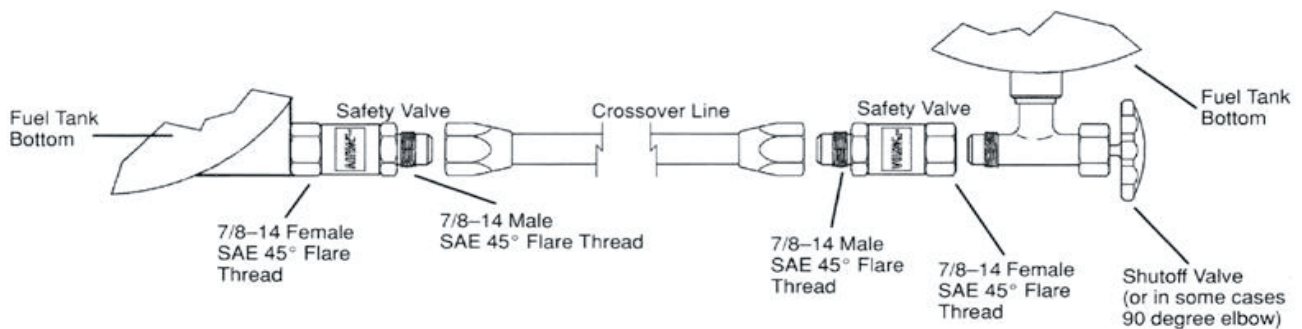
After actuation: maximum 1/2 oz. By weight up to 5.0 psi

**Actuation -**

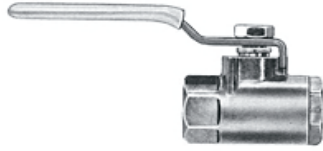
Tension: minimum 450 lbs; maximum 700 in. / lbs

**Environmental -**

Meets all performance requirements during and after exposure to salt spray, vibration, blended fuels and hot or cold temperature variations typical of tractor operating conditions



**Ball Valve**



- Designed for fuel line shutoff in gasoline and diesel vehicles. May also be used for water and air service lines
- Heavy-duty forged brass body provides extended service
- Teflon® seats and seals provide positive sealing with easy opening and closing
- 600 psi water, oil or fuel
- 150 psi on/off saturated steam service lines
- 29 in. Hg vacuum service

Part No.	Description
060050	Ball valve with 1/2" FPT both ends

**Tank Cocks**



Three-Way  
Part No. 060004



Three-Way  
Part No. 060012



Four-Way  
Part No 060001 or  
060007

- All brass bodies
- Mounting flanges with 1/4" bolt holes
- Standard 1-1/2" stems

Part No.	Description
060004	Three-Way Tank Cock with 3/8" FPT Side Ports
060012	Three-Way Tank Cock with 1/4" FPT Bottom and Side Ports
060001	Four-Way Tank Cock with 3/8" FPT Bottom and Side Ports
060007	Four-Way Tank Cock with 1/4" FPT Bottom and Side Ports

**Return Flow Splitters**

- Designed for dual draw/dual return diesel fuel system
- Distributes fuel equally to both left and right tanks eliminating the need for crossover lines
- Durable zinc die cast bodies
- Convenient tee configuration for easy plumbing to each tank
- Applicable for marine use
- (3) 1/2" FPT ports
- (2) 1/4" mounting holes



Part No.	Description	Vehicle Applications
060070	Standard Flow	Ford and Kenworth
060071	High Flow	Navistar, Volvo, Mack, Peterbilt and Western Star

**Diesel Fuel Valves**



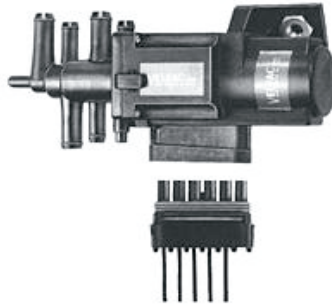
- All brass bodies provide added durability
- Neoprene seats make valves compatible with most liquids
- Both with 1/2" MPT bottom ports

Part No.	Description
060026	Leveling Valve with 1/2" FPT Side Port
060027	Leveling Valve with 5/8" SAE 45" Male Flare Side Port

### Six Port Motor-Driven Valve

(Not for marine use)

- Designed for systems with fuel or vapor return lines - not for use with fuel systems operating over 30 psi
- Reduces the possibility of fuel returning to incorrect tank as valve remains in actuated position after power is disconnected
- Permits high closing pressures
- Can be used for biodiesel, vegetable oil and olive oil
- 12 VDC
- Operating temperature range of -40° to 180° F
- 3/8" supply lines, 5/16" return lines
- Weatherproof electrical connector part No. 060046 is required for all new installations



Part No.	Description
060047	Six Port Motor-Driven Valve
060049	Electrical Connector

### Fuel Solenoid Shut Off Valve



- Direct replacement for Cummins 3035342, BM-69973
- 12 VDC
- Ports accept 1/4" tube
- 3" overall height
- Includes seal ring and port plug

Part No.	Description
034095	Fuel Solenoid Valve

## FUEL TANK SAFETY VENTS



A



B



C



D



E



F

- Feature patented anti-spill protection
- Vents meet all applicable DOT requirements

Part No.	Photo	Thread Size	Barb Size (I.D. Hose)	Fuel Application	Vehicle Application
060060	A	1-1/4" PTF SAE Short	1/4"	Diesel	Peterbilt
060061	B	1/2"-14 PTF SAE Short	5/16"	Gasoline	Various
060062	C	1/2"-14 PTF SAE Short	5/16"	Diesel	Various
060063	D	1/4"-18" PTF	1/4"	Diesel	Various
<b>Valves with Pressure and Thermal Relief Features</b>					
060040	E	1/4"-18 PTF	N/A	Diesel	Pre-1992 Kenworth
060064	F	1/2"-14 PTF SAE Short	5/16"	Diesel	Kenworth

PTF = Pipe Thread Fuel