

"Can I run a fuel tank in the back of the car if I have constant flow fuel injection"
The short answer is "Yes" and here is how....

Surge Tank Information

Constant Flow Fuel Injection does need a fuel tank up front near the fuel pump. Making a tank large enough for the application can be a challenge and often there is fuel tank in the rear of the car that cannot be used for constant flow fuel injection.

The answer is a surge tank in the front of the car near the fuel pump. This tank does not have to be all that large as often in most situations only 5-10 litres (1.5 to 2.5 gallon) is all that is necessary.



The original tank in the rear of the car and the electric fuel pump you already have back there can be put to good use just keeping the front mounted surge tank full or at least replenishing what the engine is consuming.

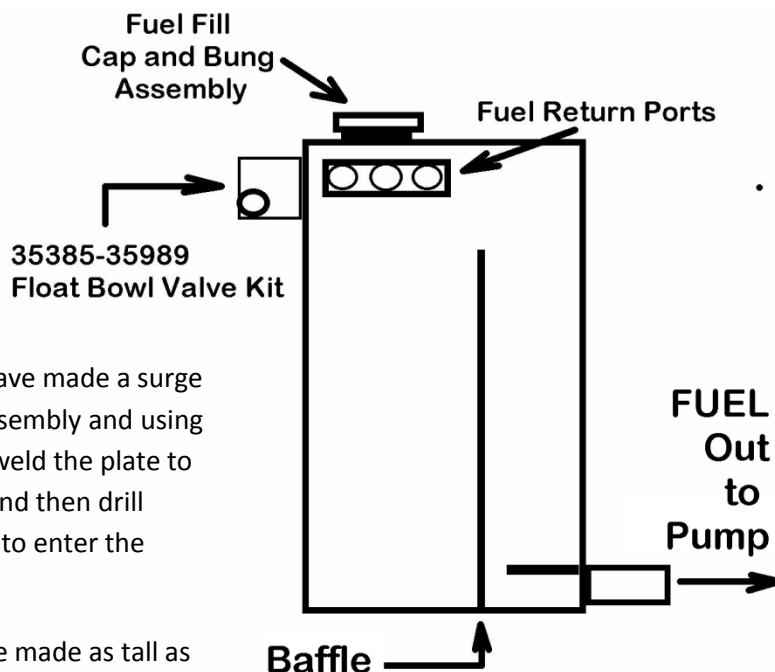
Let's do the math on consumption. Let's take worst case scenario like a Top Door car that is putting 14 GPM in the engine (that is 52 litres per minute). Now this car is wide open throttle for less than six seconds but let's round it off to six seconds. Divide 6 into 52 and that is only 8.6 litres of consumption per run while under power. If you had a 10 litre surge tank in the front it would feed even a Top Door car. There is every chance in the world that your car would use much less.

If you consider that the surge tank is being constantly refreshed with a supply from the rear tank and pump, you can see how the surge tank volume necessary, is not all that large.

Attached is a recommended sketch for your surge tank.

To shut the fuel supply from the rear tank off we have made a surge tank valve assembly by using a Holley float bowl assembly and using our weld-on mounting plate. To install you simply weld the plate to the side of the tank where you desire to mount it and then drill through the mounting plate holes to allow the fuel to enter the tank. It does not get easier than that.

We suggest your front mounted surge tank must be made as tall as possible, or at least as tall as practical.



Return the fuel from the constant flow fuel injection as far away and on the opposite side of the fuel fitting that feeds the fuel pump. We make a whole range of billet weld on port for this. I always recommend to put at least one more port in the tank than you think you need. Even if you plug it up and don't use it today there is every chance that you will use it in the future.

Be sure to vent this tank and install a separate filler cap and bung where possible.

Tank placement – often space is at a premium in the front of the car and placing the tank out of the way is a good idea should you need to service the engine. One neat place I have seen tanks mounted in inside the front fender behind the headlight with a filler neck going into the engine bay.

You may notice that in the tank sketch the fuel cap and bung assembly is located near the Float Bowl Valve Kit and the Fuel Return Ports so that the cap may be removed to observe the fuel flow as it enters the fuel tank.

You can use your own Holley float bowl and get just the weld on plate or get the complete kit.

Float Bowl Mount – weld on mount only PN 35385-35980 List \$ 110.00 RDD \$95.00 (you supply the float bowl)

Float Bowl Mount Kit Complete with weld on plate above PN 35385-35959 List \$ 295.00+ RDD \$ 265.50+

Below is some more fuel tank hardware we make to help you with your race car.

LOWE Industries

PO Box 180 Rosewood, Qld 4340 Australia

www.KenLowe.com.au

Phone 0411-699 535



Tank Hardware



Most fuel tanks for constant flow fuel injection need several ports to return the fuel back to the tank. There is usually a minimum of two ports required. As a racer you have several options. One you can weld on two separate bungs but for a tidy appearance you must be sure to keep them in line. Installing the minimum quantity will allow you to provide for your needs, today. Many times later there is a desire to add an extra port or two for more returns as your fuel system gets a little more complicated. If you install the minimum number required then you have no expansion room without removing the tank and adding more ports. If you add at least one more port than is necessary today and just plug it up until it is needed. We have made several different size billet weld bung blocks. We make both three and four hole and both dash 6 and dash 8 sizes plus blank threaded ones that allow you to drill and tap the sizes you want. For appearance sake we make both the profiled and the straight side billet weld bung blocks to suit any customers' needs.

Port holes are 1.25" on center.

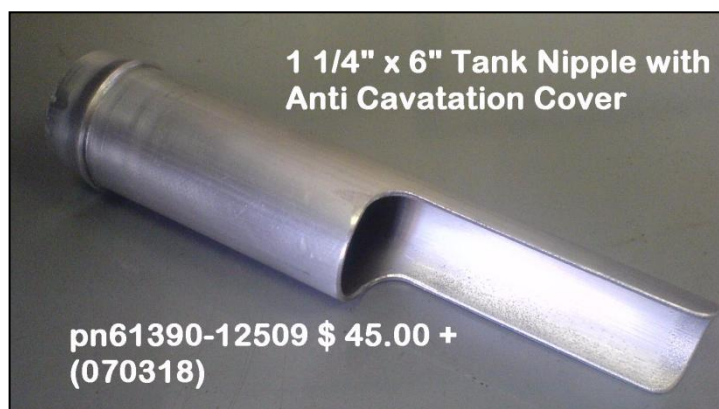
Prices shown are racer decal discount prices. Wholesale volume purchases get a 15% discount if you purchase any three of the billet weld bung blocks on one order.

Description	Part Number	List Price	RDD Price	
2 Hole Weld Bung ½" plain bore Square Shape	61246-85844	\$44.00	\$32.00	Photo not currently available
2 Hole Weld Bung Dash 6 SAE O-Ring Square Shape	61246-85846	\$49.00	\$37.00	Photo not currently available

2 Hole Weld Bung Dash 8 SAE O-Ring Square Shape	61246-85848	\$53.00	\$41.00	Photo not currently available
2 Hole Weld Bung ½" plain bore Profiled Shape	61246-85864	\$46.00	\$34.00	Photo not currently available
2 Hole Weld Bung Dash 6 SAE O-Ring Profiled Shape	61246-85866	\$51.00	\$39.00	Photo not currently available
2 Hole Weld Bung Dash 8 SAE O-Ring Profiled Shape	61246-85858	\$57.00	\$45.00	Photo not currently available
3 Hole Weld Bung ½" plain bore Square Shape	61246-85864	\$50.00	\$38.00	Photo not currently available
3 Hole Weld Bung Dash 6 SAE O-Ring Square Shape	61246-85866	\$55.00	\$43.00	
3 Hole Weld Bung Dash86 SAE O-Ring Square Shape	61246-85868	\$	\$48.00	
3 Hole Weld Bung ½" plain bore Profiled Shape	61246-85874	\$56.00	\$44.00	Photo not currently available
3 Hole Weld Bung Dash 6 SAE O-Ring Profiled Shape	61246-85876	\$61.00	\$49.00	
3 Hole Weld Bung Dash 8 SAE O-Ring Profiled Shape	61246-85878	\$67.00	\$55.00	
4 Hole Weld Bung ½" plain bore Square Shape	61246-85884	\$65.00	\$53.00	Photo not currently available

4 Hole Weld Bung Dash 6 SAE O-Ring Square Shape	61246-85886	\$70.00	\$58.00	
4 Hole Weld Bung Dash86 SAE O-Ring Square Shape	61246-85888	\$72.00	\$60.00	
4 Hole Weld Bung ½" plain bore Profiled Shape	61246-85886	\$72.00	\$60.00	
4 Hole Weld Bung Dash 6 SAE O-Ring Profiled Shape	61246-85886	\$78.00	\$66.00	
4 Hole Weld Bung Dash 8 SAE O-Ring Profiled Shape	61246-85888	\$86.00	\$74.00	

A lot of race car fuel tanks use the 1 ¼" supply hose. This size is used because it has flows that are adequate for everything up to Top Fuel and at 1 ¼" common radiator hose which is methanol compatible is inexpensive and readily available. Below is a weld nipple for your fuel tank that has an anti cavitation plate made into the top of the nipple. When this nipple is used in the tank it provides a certain amount of protection to prevent cavitation from when the pump draws the fuel from the tank it can also create a low pressure area in the fuel that can vortex into a path for the pump to draw air.





Big (2 1/2") Aluminum cap and aluminum bung assembly pn 61246-25011 \$ 99.00 +



"Econo" aluminum cap and aluminum weld bung assy (1 1/2") pn 61246-15001 \$ 63.00 +

"Econo" aluminum cap and aluminum weld bung assy (2") pn 61246-20001 \$ 73.00 +



Prices shown are racer decal discount prices.

Wholesale volume purchases get a 15% discount if your purchase, of these weld bungs is over \$200.00 on one order.

Weld Bung (female thread weld in tank fittings)

Dash 6 AN female weld bung	9/16" x 18 thread	pn 61125-60006	\$ 19.95
Dash 8 AN female weld bung	3/4" x 16 thread	pn 61125-60008	\$ 22.95
Dash 10 AN female weld bung	7/8" x 14 thread	pn 61125-60010	\$ 25.15
Dash 12 AN female weld bung	1 1/16" x 12 thread	pn 61125-60012	\$ 28.15
Dash 16 AN female weld bung	1 5/16" x 12 thread	pn 61125-60016	\$ 34.75
Dash 20 AN female weld bung	1 5/8" x 12 thread	pn 61125-60002	\$ 39.50



NPT weld bungs.

NPT weld bung - 1/8" NPT (female) aluminum weld bung pn 61125-50002 \$ 16.50
 NPT weld bung - 1/4" NPT (female) aluminum weld bung pn 61125-50004 \$ 18.50
 NPT weld bung - 3/8" NPT (female) aluminum weld bung pn 61125-50006 \$ 19.50
 NPT weld bung - 1/2" NPT (female) aluminum weld bung pn 61125-50008 \$ 21.50
 NPT weld bung - 3/4" NPT (female) aluminum weld bung pn 61125-50012 \$ 24.50
 NPT weld bung - 1" NPT (female) aluminum weld bung pn 61125-50016 \$ 29.50

BSP weld bungs

Below are BSP weld bungs. BSP is one thread (TPI) different than NPT in sizes less than 1/2". Larger than 1/2" they are the same TPI and will interchange.

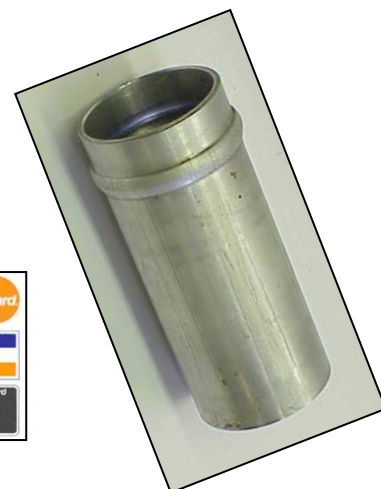
61125-60002 1/8" BSP (female) aluminum weld bung \$ 16.50
 61125-60004 1/4" BSP (female) aluminum weld bung \$ 18.50
 61125-60006 3/8" BSP (female) aluminum weld bung \$ 19.50

NOTE: BSP weld fittings have a small groove cut around the outside to distinguish the BSP from the NPT since they will look almost identical except for the TPI being one thread different.

Weld on nipples

1 1/4" x 3" tank nipple (weld on) pn 61390-12503 \$ 15.00
 1 1/4" x 4" tank nipple (weld on) pn 61390-12504 \$ 16.50
 1 1/4" x 5" tank nipple (weld on) pn 61390-12505 \$ 18.00
 1 1/4" x 6" tank nipple (weld on) pn 61390-12506 \$ 19.50

All we need to ship your order is your credit card details and a shipping address. We accept Master Card and Visa. There is a printed number on the back of your credit card on the signature line. Would you give us the last three digits of that number. Please include your phone number as well. Prices are in AUD (Australian Dollars) + GST (if applicable) GST does not apply to orders from outside Australia. Price does not include shipping. All prices are subject to change without notice. Prices must be verified at time of purchase only.



Valve cover Twist Lock Quick Release vent tubes



Quick Disconnect Valve cover vent tubes **3 bolt** hole mount 1 1/4" hose connection- 1/4 turn release with internal O-ring seal

PN 39390-08003 List Price \$ 325.00 Racer Decal Discount \$295.00+

Quick Disconnect Valve cover vent tubes **2 bolt** hole mount 1 1/4" hose connection- 1/4 turn release with internal O-ring seal - 2 bolt mount suits old standard covers that already have holes for standard breathers.

PN 39390-08002 List Price \$ 325.00 Racer Decal Discount \$295.00+

Separate parts for the QD valve cover vent breathers.

Twist release QD VC vent tubes - 1 1/4" hose **connector nipples** anodized black

PN 39390-01251 List Price \$ 121.00+ Racer Decal Discount \$ 105.00+

Twist release valve cover snorkels - two bolt

PN 39390-21252 List Price \$ 125.00+ Racer Decal Discount \$105.00+

Twist release valve cover snorkels - three bolt

PN 39390-31252 List Price \$ 125.00+ Racer Decal Discount \$105.00+

Weld on twist release male connection 6" long

PN 39390-00001 List Price \$ 69.00+ Racer Decal Discount \$60.00+



61390-12503 1 1/4" x 3" tank nipple (weld on)

61390-12504 1 1/4" x 4" tank nipple (weld on)

61390-12505 1 1/4" x 5" tank nipple (weld on)

61390-12506 1 1/4" x 6" tank nipple (weld on)

61246-13121 1 5/16"

Aluminum plug and
aluminum bung assembly

61246-13122 1 5/16"

Aluminum plug and steel
bung assembly

61246-13123 1 5/16"



61246-13129 O-ring seal for 1 5/16" plug and bung unit

PN 61385-86012 List Price \$ 32.00 RDD \$ 25.00

PN 61385-86023 List Price \$ 28.00 RDD \$ 22.00

Vent tank (puke tank) for TAD PN 61779-00001 >>>>>>>>>>

PN 35740-10005 List Price \$ 445.00 RDD \$ 399.00

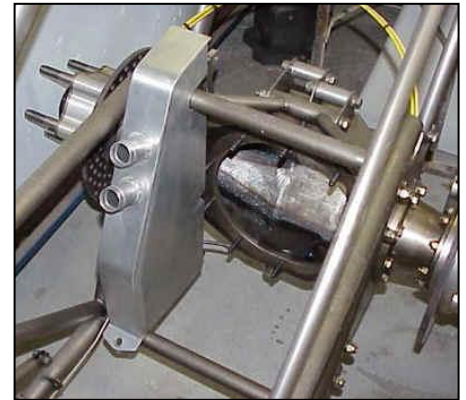
PN 35740-11005 List Price \$ 475.00 RDD \$ 450.00

PN 35740-10007 List Price \$ 495.00 RDD \$ 450.00

PN 35740-11007 List Price \$ 525.00 RDD \$ 499.00

Custom fuel tanks made to order. Send a fax with a sketch for a quote.

Overflow tank polished PN 35740-100002 List \$175.00 RDD \$ 155.00



Overflow tank black	PN 35740-100003	List \$198.00	RDD \$ 175.00
Overflow tank Red	PN 35740-100004	List \$198.00	RDD \$ 175.00
Overflow tank Blue	PN 35740-100005	List \$198.00	RDD \$ 175.00
Overflow tank Purple	PN 35740-100006	List \$198.00	RDD \$ 175.00
Overflow tank GOLD	PN 35740-100007	List \$198.00	RDD \$ 175.00

Examples of custom tanks



Fuel tank in an altered.



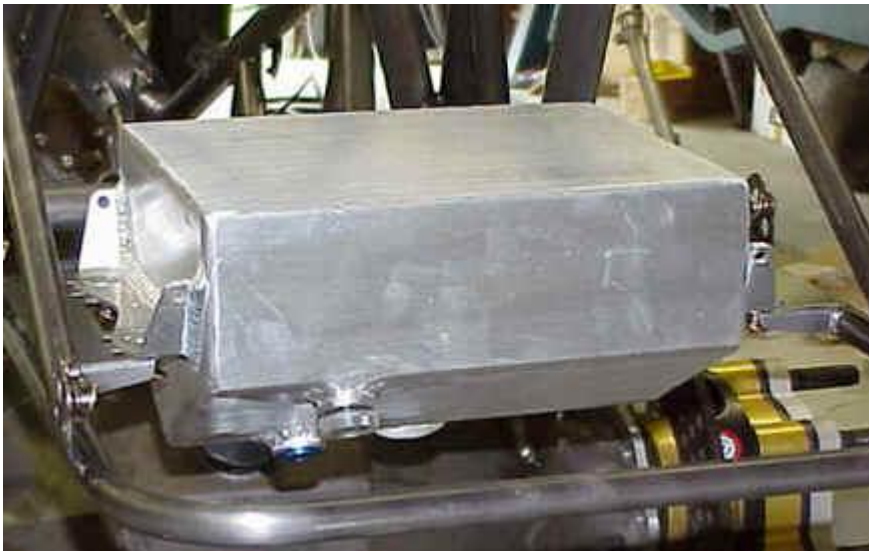
Fuel tank in an altered



Puke tank on the back of an altered.



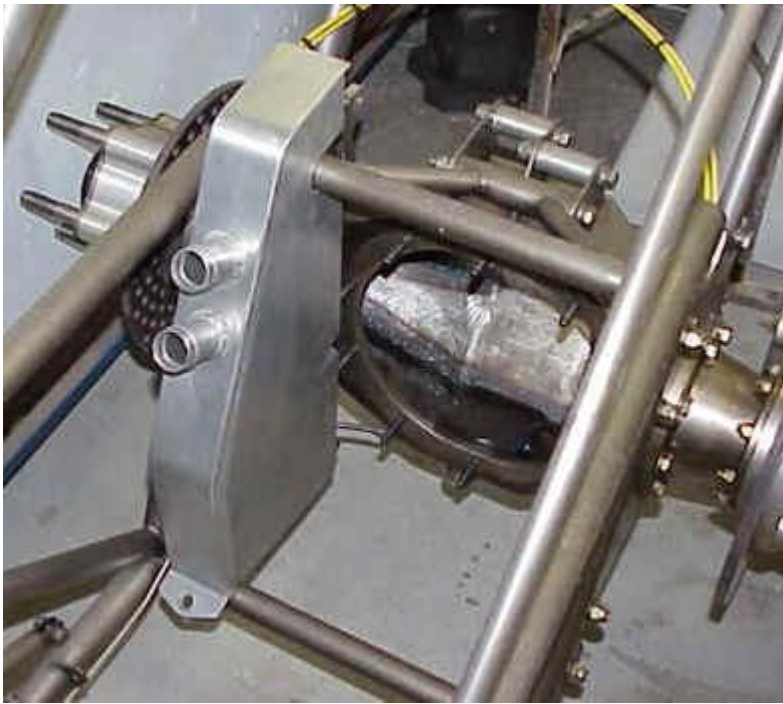
Puke tank on the back of an altered



Puke tank on the back of an altered with sight gauge.



Puke tank on the back of an altered - see the sight gauge and the drain plug.



Puke tank on the back of a dragster.