



MARINE FUEL SYSTEM SOLUTIONS



Everything you need to be
environmentally & industry compliant
from a single, trusted supplier.



Fluid level control system for marine fuel tanks.

A simply better approach to fuel level and tank pressure management in any weather condition.

This new product "family of designs" utilizes the simplest and yet the most creative engineering product innovation currently available for refueling and fuel capacity management, designed specifically for marine fuel tanks and as an integral part of any complete EPA/CARB compliant system.

Hollow floating ball type valves and smaller automotive-style valves were sound solutions a decade ago, however Whitecap Marine Valve Solutions are a logical evolution in application employing integral guided floats for a precision seat placement (via a fixed guide shaft), ensuring repeatability of function during each refueling operation. The floats are made from "high" lift nitrogen-filled nitrile butadiene and are rated for all fuels including high ethanol blends. For maximum adaptability, the tank-mounted full valve system portfolio comprises of barbed vertical mount, 90 DEG, and 45 DEG versions on a 5 hole mounting plate, each designed to be used in conjunction with the Whitecap Fill Limit Vent Valve, (FLVV) using the same liquid control methodology.

These custom tailored multipurpose floats are guided precisely through vertical upward travel resulting in precise valve control and performance, with consistent reliability. The full valve system portfolio comprises of vertical remote (or *direct) cap mount, 90 DEG, 45 DEG fuel fill valves, designed to be used in conjunction with a newly developed Fill Limit Vent Valve, (FLVV) using the same fluid/vapor control methodology.



Fuel Limit Valves



Fuel Limit Vent Valve
PN# FLVV90



Fuel Limit Fill Valve 0°
PN# FLV0



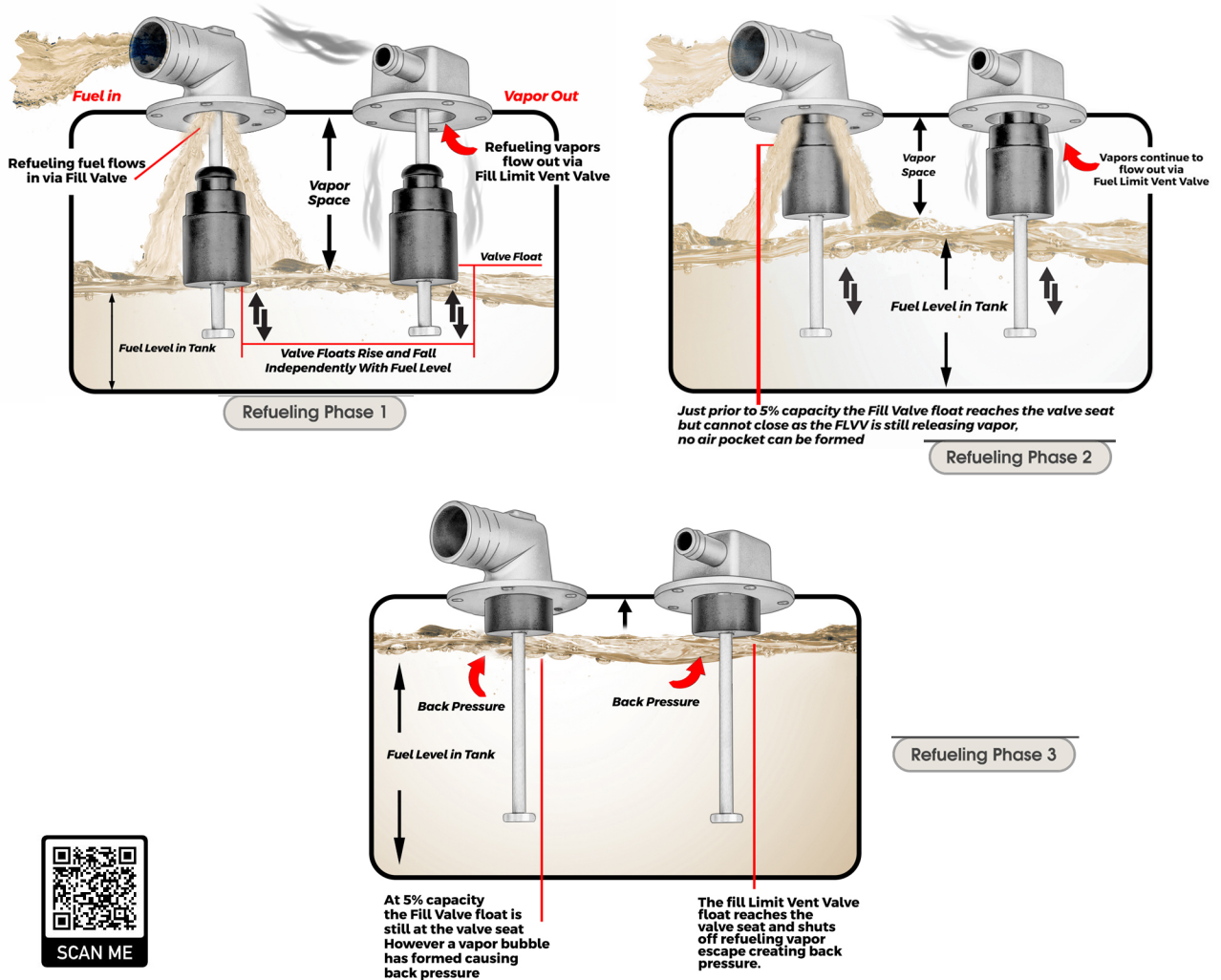
Fuel Limit Fill Valve 90°
PN# FLV90



Fuel Limit Fill Valve 45°
PN# FLV45

System Refueling

A vapor (or Ullage) space must be produced at the completion of the filling or refueling operation to ensure systems remain EPA compliant during the diurnal temperature cycle. To effectively manage this system function, Whitecap has developed valves that mount directly to any marine fuel tank to achieve the pertinent fill level while maintaining ullage space of ~5%. Additionally these valves regulate refueling “spit-back” or tank “well-back”, which is a requirement of EPA regulations. Whitecap valves replace the existing fill and vent locations, while additional grade level valves can be added to any tank to meet American Boat & Yacht Council standards (H-24) which allows vapor venting for boats slanting or sloping when stored, moored, parked or trailered.



Watch the video here.

Guaranteed tank filling to 100%. Zero spit-back.

In addition to precise fuel level attainment to eliminate carbon canister contamination, better valving ensures clean refueling shut off without the chance of spit-back, every time. Guaranteed.



EPA CERTIFIED CARB APPROVED FLIP TOP DECK FILLS

For use in either pressurized or canister systems, Whitecap EPA Compliant Deck Fills use elastomeric valves and for over a decade have proven to be more reliable than traditional ball and spring type valve systems. When used with canister systems, the valves inside the deck fill merely act as a secondary pressure relief backup. Designed to fit in all existing deck fill locations on OEM boats, Whitecap deck fills are proven to be reliable in a full range of temperatures and weather conditions. Available in a multiple configurations:

Nylon body & cap, Nylon body with Chrome Zinc cap

Nylon body with 316 Stainless Steel cap

All 316 Stainless Steel with choice of sculpted or contoured cap.



Nylon/Stainless Steel EPA Flip-Top Deck Fill - SCULPTED CAP

PART	TYPE	OFFSET	CAP	VENT	FASTENER
S-4423	GAS	0°	316 STAINLESS	YES	#10(4)
S-4423NV	GAS	0°	316 STAINLESS	NO	#10(4)
S-4424	DIESEL	0°	316 STAINLESS	NO	#10(4)
S-4425	WATER	0°	316 STAINLESS	NO	#10(4)
S-4426	WASTE	0°	316 STAINLESS	NO	#10(4)
S-4423A30	GAS	30°	316 STAINLESS	YES	#10(4)
S-4423A30NV	GAS	30°	316 STAINLESS	NO	#10(4)
S-4424A30	DIESEL	30°	316 STAINLESS	NO	#10(4)
S-4425A30	WATER	30°	316 STAINLESS	NO	#10(4)
S-4426A30	WASTE	30°	316 STAINLESS	NO	#10(4)



Nylon/Stainless Steel EPA Flip-Top Deck Fill - CONTOURED CAP

PART	TYPE	OFFSET	CAP	VENT	FASTENER
S-4523	GAS	0°	316 STAINLESS	YES	#10(4)
S-4523NV	GAS	0°	316 STAINLESS	NO	#10(4)
S-4524	DIESEL	0°	316 STAINLESS	NO	#10(4)
S-4525	WATER	0°	316 STAINLESS	NO	#10(4)
S-4526	WASTE	0°	316 STAINLESS	NO	#10(4)
S-4523A30	GAS	30°	316 STAINLESS	YES	#10(4)
S-4523A30NV	GAS	30°	316 STAINLESS	NO	#10(4)
S-4524A30	DIESEL	30°	316 STAINLESS	NO	#10(4)
S-4525A30	WATER	30°	316 STAINLESS	NO	#10(4)
S-4526A30	WASTE	30°	316 STAINLESS	NO	#10(4)



Nylon/Chrome Zinc EPA Flip-Top Deck Fill

PART	TYPE	OFFSET	CAP	VENT	FASTENER
S-1423	GAS	0°	CHROME ZINC	YES	#10(4)
S-1423NV	GAS	0°	CHROME ZINC	NO	#10(4)
S-1424	DIESEL	0°	CHROME ZINC	NO	#10(4)
S-1425	WATER	0°	CHROME ZINC	NO	#10(4)
S-1426	WASTE	0°	CHROME ZINC	NO	#10(4)
S-1423A30	GAS	30°	CHROME ZINC	YES	#10(4)
S-1423A30NV	GAS	30°	CHROME ZINC	NO	#10(4)
S-1424A30	DIESEL	30°	CHROME ZINC	NO	#10(4)
S-1425A30	WATER	30°	CHROME ZINC	NO	#10(4)
S-1426A30	WASTE	30°	CHROME ZINC	NO	#10(4)



All Nylon EPA Flip-Top Deck Fill

PART	TYPE	OFFSET	CAP	VENT	FASTENER
3823	GAS	0°	BLACK NYLON	YES	#10(4)
3823NV	GAS	0°	BLACK NYLON	NO	#10(4)
3824	DIESEL	0°	BLACK NYLON	NO	#10(4)
3825	WATER	0°	BLACK NYLON	NO	#10(4)
3826	WASTE	0°	BLACK NYLON	NO	#10(4)
3823A30	GAS	30°	BLACK NYLON	YES	#10(4)
3823A30NV	GAS	30°	BLACK NYLON	NO	#10(4)
3824A30	DIESEL	30°	BLACK NYLON	NO	#10(4)
3825A30	WATER	30°	BLACK NYLON	NO	#10(4)
3826A30	WASTE	30°	BLACK NYLON	NO	#10(4)

Contoured 316 Stainless Steel EPA Flip-Top Deck Fill

PART	TYPE	OFFSET	CAP	VENT
7823	GAS	0°	CONTOURED	YES
7823NV	GAS	0°	CONTOURED	NO
7824	DIESEL	0°	CONTOURED	NO
7825	WATER	0°	CONTOURED	NO
7826	WASTE	0°	CONTOURED	NO
7823A15	GAS	15°	CONTOURED	YES
7823A15NV	GAS	15°	CONTOURED	NO
7824A15	DIESEL	15°	CONTOURED	NO
7825A15	WATER	15°	CONTOURED	NO
7826A15	WASTE	15°	CONTOURED	NO
7823A30	GAS	30°	CONTOURED	YES
7823A30NV	GAS	30°	CONTOURED	NO
7824A30	DIESEL	30°	CONTOURED	NO
7825A30	WATER	30°	CONTOURED	NO
7826A30	WASTE	30°	CONTOURED	NO

EPA DECK FILLS

Sculpted 316 Stainless Steel EPA Flip-Top Deck Fill

PART	TYPE	OFFSET	CAP	VENT
7723	GAS	0°	SCULPTED	YES
7723NV	GAS	0°	SCULPTED	NO
7724	DIESEL	0°	SCULPTED	NO
7725	WATER	0°	SCULPTED	NO
7726	WASTE	0°	SCULPTED	NO
7723A15	GAS	15°	SCULPTED	YES
7723A15NV	GAS	15°	SCULPTED	NO
7724A15	DIESEL	15°	SCULPTED	NO
7725A15	WATER	15°	SCULPTED	NO
7726A15	WASTE	15°	SCULPTED	NO
7723A30	GAS	30°	SCULPTED	YES
7723A30NV	GAS	30°	SCULPTED	NO
7724A30	DIESEL	30°	SCULPTED	NO
7725A30	WATER	30°	SCULPTED	NO
7726A30	WASTE	30°	SCULPTED	NO

EPA Flip-Top Deck Fill Pressure Test Plug PN# Z-10266
For OEM use only.

90° EPA PULL UP DECK FILLS FOR CARBON CANNISTER SYSTEMS

PART	TYPE	FLANGE	HOSE	ANGLE	CHAIN	FASTENER
6123EPA	GAS	3"	1-1/2"	90°	Yes	#10(3)
6124EPA	DIESEL	3"	1-1/2"	90°	Yes	#10(3)
6125EPA	WATER	3"	1-1/2"	90°	Yes	#10(3)
6126EPA	WASTE	3"	1-1/2"	90°	Yes	#10(3)
6394EPA	GAS	3-1/2"	2"	90°	Yes	#10(3)
6394EPA	DIESEL	3-1/2"	2"	90°	Yes	#10(3)
6775	WATER	-	-	90°	-	#10(3)
6776	WASTE	-	-	90°	-	#10(3)

316 Stainless Steel

1/4-turn pull-up cap with safety chain

EPA approved for audible/visual open/close of cap

Color coded and imprinted with international standard symbols

Pressure test cap available, PN 6062PC

For use with carbon cannister

PUMP OUT ADAPTER

PART	HOSE	MATERIAL
6126ADTP	2"	316SS

Fits P/N 6126EPA and 6126AEPA

To create a tight seal with pump out station



6123EPA



6124EPA



6125EPA



6126EPA



6394EPA



6395EPA

30° EPA PULL UP DECK FILLS FOR CARBON CANNISTER SYSTEMS

PART	TYPE	FLANGE	HOSE	ANGLE	CHAIN	FASTENER
6123AEPA	GAS	3"	1-1/2"	30°	Yes	#10(3)
6124AEPA	DIESEL	3"	1-1/2"	30°	Yes	#10(3)
6125AEPA	WATER	3"	1-1/2"	30°	Yes	#10(3)
6126AEPA	WASTE	3"	1-1/2"	30°	Yes	#10(3)
6394AEPA	GAS	3-1/2"	2"	30°	Yes	#10(3)
6395AEPA	DIESEL	3-1/2"	2"	30°	Yes	#10(3)
6775A	WATER	-	-	30°	-	#10(3)
6776A	WASTE	-	-	30°	-	#10(3)

316 Stainless Steel

1/4-turn pull-up cap with safety chain

EPA approved for audible/visual open/close of cap

Color coded and imprinted with international standard symbols

Pressure test cap available, PN 6062PC

For use with carbon cannister



6123AEPA



6124AEPA



6125AEPA



6126AEPA



6394AEPA



6395AEPA

VENTED EPA PULL UP DECK FILL FOR CARBON CANNISTER SYSTEMS

PART	TYPE	FLANGE	HOSE	ANGLE	CHAIN	FASTENER
6123EPAWV	GAS	3"	1-1/2"	90°	Yes	#10(3)
6123AEPAWV	GAS	3"	1-1/2"	30°	Yes	#10(3)

Built-in fuel vent with 5/8" hose barb
316 Stainless Steel
1/4-turn pull-up with safety chain
EPA approved for audible/visual open/close of cap
Color coded and imprinted with international standard symbols
Pressure test cap available, PN 6062PC
For use with carbon cannister



6123EPAWV



6123AEPAWV



EPA/Carb Certified Pressurized System Deck Fills

Comfortable easy open and close cap with twist lock feature and audible click.
Low profile design to help prevent against dock line snag.
Integrated tether prevents caps loss and follows EPA compliance.
Gas fill uses integrated grounding tab to discharge any potential static build up during the refueling process.

EPA PRESSURIZED SYSTEM DECK FILL- **GAS**

PART	FLANGE O.D.	HOSE	VENT HOSE	STYLE	FASTENER	MATERIAL
6423	3-1/4"	1-1/2"	5/8"	GAS	3/16"(4)	316SS



EPA PRESSURIZED SYSTEM DECK FILL- **WATER**

PART	FLANGE O.D.	HOSE	STYLE	FASTENER	MATERIAL
6425	3-1/4"	1-1/2"	WATER	3/16"(4)	316SS



EPA PRESSURIZED SYSTEM DECK FILL- **WASTE**

PART	FLANGE O.D.	HOSE	STYLE	FASTENER	MATERIAL
6426	3-1/4"	1-1/2"	WASTE	3/16"(4)	316SS





DIRECT TANK FILL FOR PONTOON BOATS

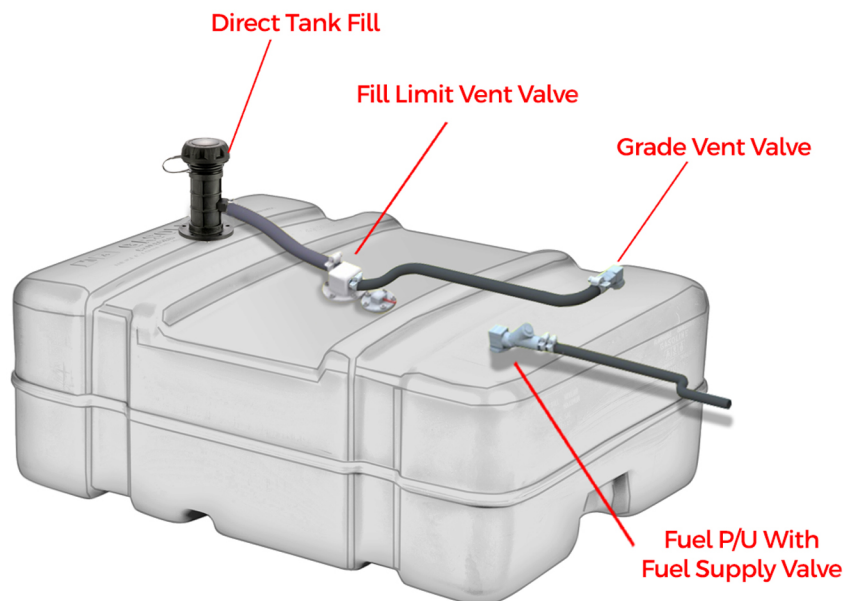
PART	DESCRIPTION	MATERIAL	SIZE
DTF5.5	EPA Pontoon Direct Fill	Glass Filled Nylon	5-1/2"
DTF8.5	EPA Pontoon Direct Fill	Glass Filled Nylon	8-1/2"



Certified EPA/CARB Compliant Tank Fills for Pontoon Boats.

Patented float/valve technology guarantees against fuel spit-back while allowing the tank to fill completely in less time..

Designed specifically for pontoon boat "pod-mounted" fuel tanks or decked boats where direct tank access is feasible through the deck i.e. using the tethered cap supplied, eliminating the need for a deck fill and hose connections. An integrated component vent eliminates the need for a separate fuel tank vent and hose connections.



Patented refueling shut-off technology.



**Zero spit-back.
100% tank fill.**



DIRECT TANK FILL ACCESSORIES

PART	DESCRIPTION	SIZE
DTF-CAP	EPA Pontoon Direct Fill Cap	2-1/4"
DTF-TETHER	EPA Pontoon Direct Fill Cap Tether	8-3/4"



Vented cap designed specifically for the direct tank fill is EPA/CARB compliant in allowing tank vapor to safely escape without the need for any additional hoses or tank venting components.

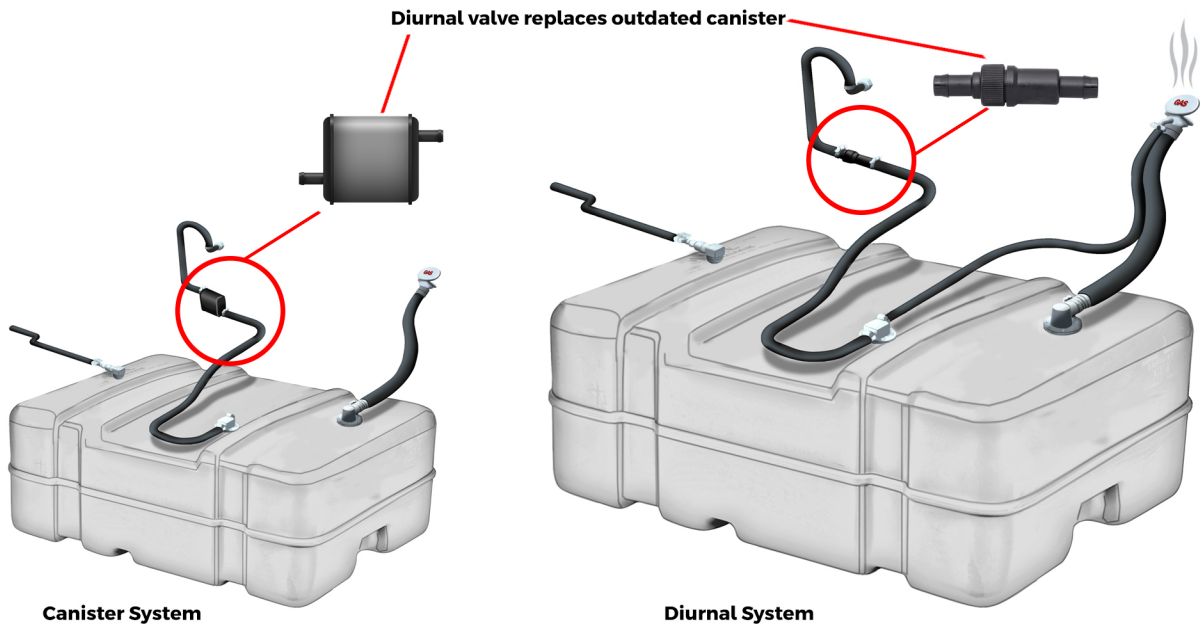
Nylon tether also meets all EPA/CARB requirements. 2-1/4" vented cap and tether fit both DTF8.5 and DTF5.5.



Eliminate the need for a carbon canister.

A cleaner, more practical approach to staying EPA/CARB compliant through better engineering.

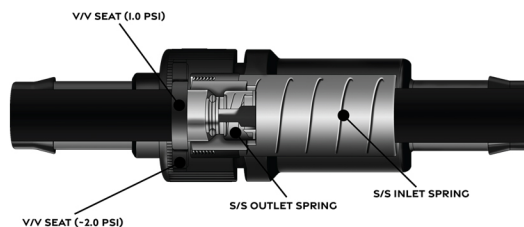
1 PSIG diurnal relief pressure valve commonly referred to as a Diurnal Control Valve (DCV) solves many of the issues surrounding carbon canister failure modes like water intrusion, fuel saturation, degradation over time etc. Whether the relief valve is housed in a specially designed EPA deck fill or as an inline diurnal valve component with its own dedicated vent hose and thru hull fitting, they are unaffected by environmental factors. 1 PSIG diurnal relief pressure valves, if mounted "in-line" eliminate the need to use outdated, costly carbon canisters and allow dedicated refueling vapor to escape through the deck fill.



DIURNAL VAPOR/ AIR CONTROL VALVE

PART	SYSTEM CONTROL	MATERIAL
F-2402	Air/Vapor (EPA,CARB)	Glass Filled Nylon

EPA & CARB compliant when replacing carbon canisters
For use in the harshest marine environments
Compatible with Ethanol based fuels
Engineered to allow engine functioning at start-up, idle and WOT (wide open throttle)
Allows fuel venting vapor out and make-up air into the fuel tank
Compatible for use with all tank sizes





INLINE FUEL DEMAND VALVE

PART	DESCRIPTION
F-2405	3/8" MNPT X 3/8" HB
F-2410	3/8" MNPT X 1/2" HB
F-2411	1/2" MNPT X 1/2" HB
F-2412	1/2" MNPT X 3/8" HB

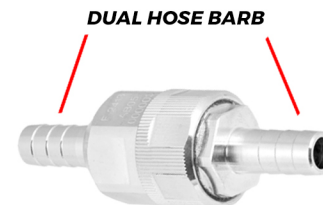
Whitecap Fuel Demand Valves are designed to prevent pressurized fuel from escaping the tank and reaching the engine. Our valves will only send fuel when either demanded by the engine at start up or by standard engine operation. When installed correctly on a marine fuel tank, Whitecap's line of fuel demand valves will provide all of the required dynamic features to meet or exceed; **United States Coast Guard (USCG) Regulations in addition to the American Boat And Yacht Council (ABYC) building Standards.**

INLINE FUEL DEMAND VALVE - DUAL BARB

PART	DESCRIPTION
F-2413	3/8" HB X 3/8" HB
F-2414	1/2" HB X 1/2" HB

Dual barb fuel delivery valves provide alternative mounting options where tank mounted valve locations are problematic and should be supported in the fuel line(s) in accordance with ABYC H-24 protocols. Dual barb fuel delivery valves are another example of how Whitecap is the market leader in new innovative fuel technologies.

Simple quick worry free installation for all fuel systems.



GRADE VENT VALVE

PART	DESCRIPTION
GVV38	3/8" Male NPT - 5/8" HB
GVV50	1/2" Male NPT - 5/8" HB

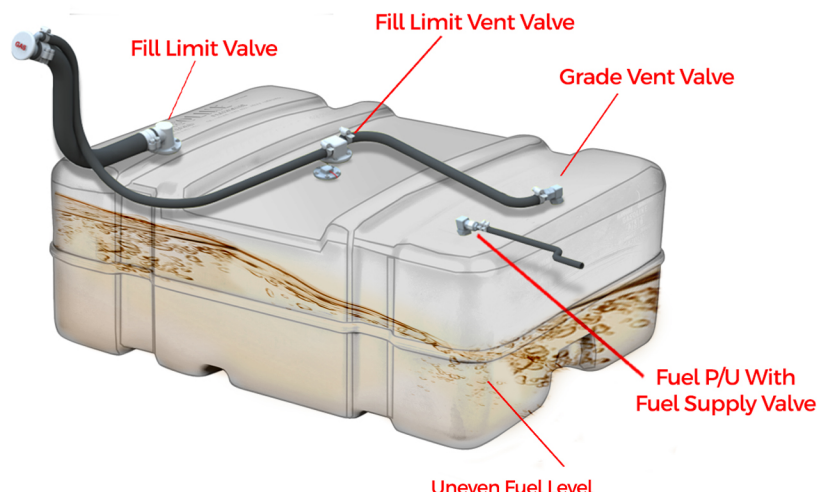


GVV38



GVV50

Allows tank to vent while boat is parked, trailered or stored on an uneven plane, while keeping raw fuel from the vapor/venting system.





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Watch the video here.

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