

Fuel System Requirements

Links to applicable regulations

[46 CFR 28.335 – Fuel system requirements](#)

[33 CFR 183.500 – Recreational manufacturer's req.](#)

Checklist for this item

	Vents for integral fuel tanks
	<ul style="list-style-type: none"> • Vent pipe fitted to the uppermost part of the tank <ul style="list-style-type: none"> ○ For tanks filled under pressure the cross sectional area of vent pipe shall not be less than that of the fill pipe.
	<ul style="list-style-type: none"> • Terminate at a 180 degree bend on the weather deck
	<ul style="list-style-type: none"> • Fitted with a flame screen
	Fuel fill piping <i>(required for vsls 79' or greater)</i>
	<ul style="list-style-type: none"> • Great than 30" <ul style="list-style-type: none"> ○ Must be seamless <ul style="list-style-type: none"> ▪ Steel, annealed copper, nickel-copper, or copper nickel ▪ Wall thickness at least 0.035"
	<ul style="list-style-type: none"> • Aluminum piping is acceptable for aluminum hull vessels <ul style="list-style-type: none"> ○ Provided it is not installed in the engine room ○ Minimum schedule 80 in thickness
	<ul style="list-style-type: none"> • For lengths not greater than 30" <ul style="list-style-type: none"> ○ Nonmetallic hose may be substituted for the above ○ It must be visible and easily accessible ○ Cannot penetrate watertight bulkheads ○ Must be fabricated with an inner tube and cove of synthetic rubber <ul style="list-style-type: none"> ▪ or other suitable material reinforced with wire braid ○ Fitted with suitable, corrosion resistant, compression fittings ○ Installed with at least two clamps at each end <ul style="list-style-type: none"> ▪ Clamps cannot rely on spring tension
	Fuel lines subject to head pressure of the tank
	<ul style="list-style-type: none"> • Fitted with a fuel shutoff valve operable from a safe location outside the space.

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	Fuel fill piping (<i>Vessels less than 79'</i>)
	<ul style="list-style-type: none">• May comply with above or
	<ul style="list-style-type: none">• Requirements of
	<ul style="list-style-type: none"><ul style="list-style-type: none">○ ABYC
	<ul style="list-style-type: none"><ul style="list-style-type: none">○ Chapter 5 of NFPA
	<ul style="list-style-type: none"><ul style="list-style-type: none">○ Recreational manufacturers requirements 33 CFR 183.500
