

# VFLO 5.0

## CONSTANT FLOW WATER PRESSURE PUMP

Nobody would notice the perfect water pressure pump. In a perfect world your experience on the water would be the same as on land. Pressurized water at the desired temperature would be delivered shortly after turning the faucet on and there wouldn't be loud knocking and whirring behind the walls. It may not be a perfect world, but Jabsco's VFLO variable flow water pressure pumps are the most inconspicuous pumps you can buy.

- Runs smooth and quiet without water hammer.
- Consistent water pressure provides a comfortable shower with the proper mix of hot and cold water.
- Water flow adjusts quickly to meet your demand with new and improved next generation electronic controls that decrease pump response time.



### Additional Benefits

- Conserves power. Motor power draw matches flow demand
- High capacity - supplies water for up to 4 outlets simultaneously
- Self-priming (10 feet max suction lift)
- Runs dry without damage
- Snap fit port fittings - for easy installation with a variety of connection possibilities
- 12V & 24V DC models available
- Saves space - eliminates accumulator tank

Model	Nominal DC Volts	Max Fuse	Open Flow GPM (LPM)	Operating Pressure PSI (Bar)	Cut-Out Pressure PSI (Bar)
42755-0092	12V DC	15A	5.0 (19)	40 (2.75)	60 (4.1)
42755-0094	24V DC	10A	5.0 (19)	40 (2.75)	60 (4.1)
42755-0392	12V DC	15A	5.0 (19)	25 (1.72)	35 (2.4)
42755-0394	24V DC	10A	5.0 (19)	25 (1.72)	35 (2.4)



a xylem brand

# VFLO 5.0 CONSTANT FLOW WATER PRESSURE PUMP

## The VFlo Story

A boat is a refuge, a place to relax and be at peace. VFlo goes beyond basic functionality to provide a quieter experience. The key addition is an electronic control system that operates the pump motor at variable speeds. This enables motor speed at start up and shut off to be ramped and gradual, meaning no water hammer and shock to your pipes or ears. Motor speed also matches water demand in real time. As additional faucets are turned on and more flow is needed, the motor speeds up. As they are turned off, demand falls and motor speed decreases. The result - motor speed is optimized to reduce power consumption and noise generation.

Jabsco continuously strives for improvement and in 2016 VFlo saw two refinements. First, a quicker response to changes in flow demand. Second, the over voltage threshold setting was increased to improve compatibility with modern battery charging systems.

VFlo is the water pressure system that operates out of sight and out of mind.

## Kit Includes



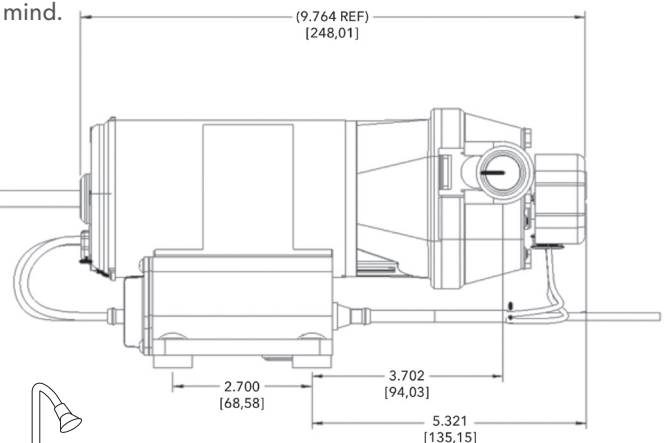
5.0 Water Pressure Pump



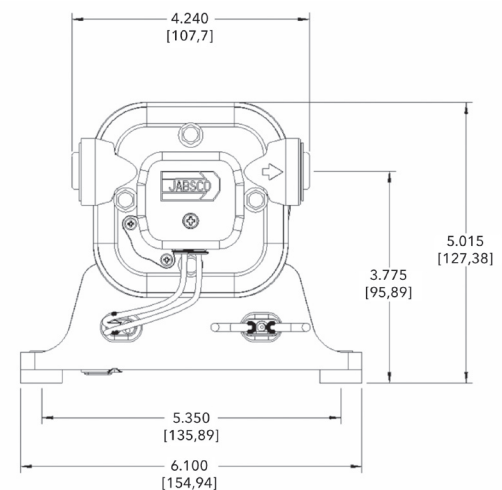
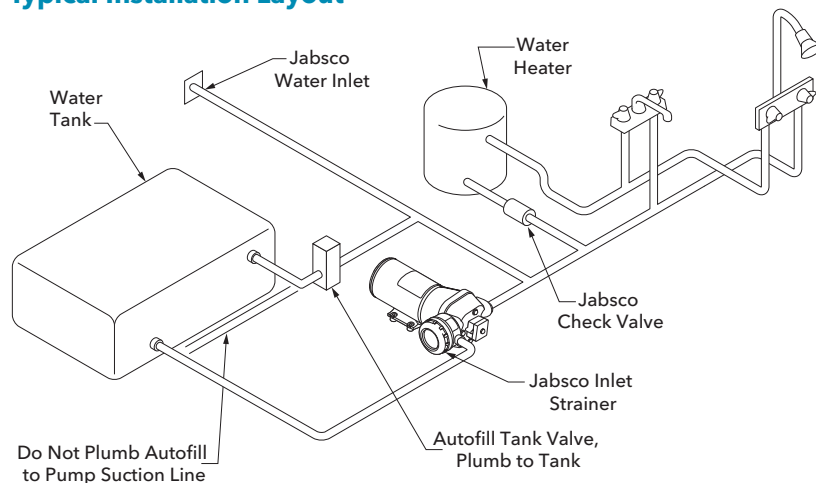
Pumpgard™ Inline Strainer



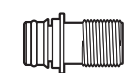
Snap-Fit Port Fittings



## Typical Installation Layout



## Accessories - Snap-In Port Fittings



30649-1000  
QUAD PORT x 1/2"  
MALE QEST. STRAIGHT



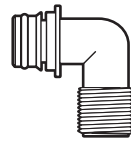
30654-1000  
QUAD PORT x 1/2"  
HOSE BARB STRAIGHT



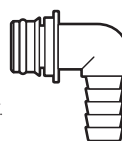
30653-1000  
QUAD PORT x 3/4"  
HOSE BARB STRAIGHT



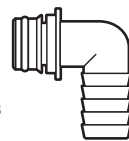
30650-1000  
QUAD PORT x  
GARDEN HOSE STRAIGHT



30655-1000  
QUAD PORT x  
1/2" MALE QEST.  
90° ELBOW



30651-1000  
QUAD PORT x  
1/2" HOSE BARB  
90° ELBOW



30642-1000  
QUAD PORT x  
3/4" HOSE BARB  
90° ELBOW

**NOTE:** Do not install VFlo with an accumulator tank. VFlo was designed to operate independently and will not function properly if paired with an accumulator tank.

**xylem**  
Let's Solve Water

Warranty: All products of the company are sold and all services of the company are offered subject to the company's warranty and terms and conditions of sale, copies of which will be furnished upon request. The information provided herein is for guidance only, it does not constitute a guarantee of the performance or specification of any individual product or component.

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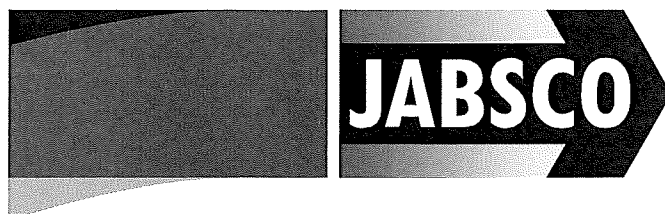
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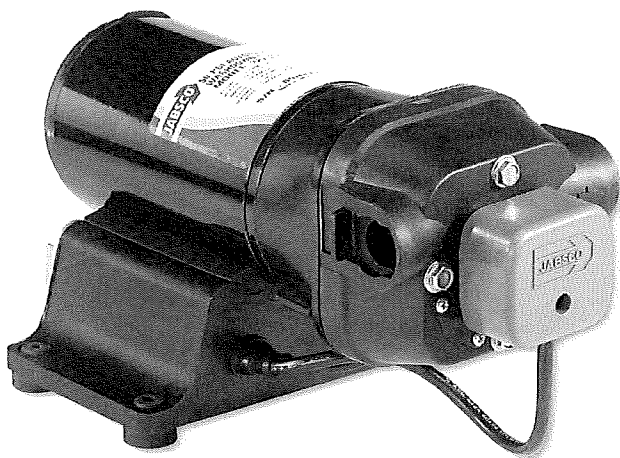
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# Automatic Water System Pump

42755 SERIES

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- FR** Pompe automatique  
pour réseau d'eau
- DE** Automatikpumpe  
für Wasseranlagen
- IT** Pompa automatica  
dell'impianto idrico
- NL** Automatische  
watersysteempomp
- SE** Automatisk vattensystempump
- ES** Bomba para sistema  
automático de agua



CE

# **FLO 5.0** Automatic Water WATER PRESSURE PUMP System Pump

## Purpose of this manual

The purpose of this manual is to provide necessary information for product installation, operation and maintenance.



**CAUTION:** Read this manual carefully before installing, using or servicing this product. Failure to follow the instructions within this manual could result in explosion, property damage, severe personal injury and/or death.



**NOTICE:** Save this manual for future reference, and keep it readily available at the location of the unit.

## Safety



### **WARNING:**

- The operator must be aware of safety precautions to prevent physical injury.
- Operating, installing or maintaining the unit in any way that is not covered in this manual could cause death, serious personal injury or damage to the equipment. This includes any modification to the equipment or use of parts not provided by Xylem. If there is a question regarding the intended use of equipment, please contact a Xylem representative before proceeding.
- Do not change the service application without the approval of an authorized Xylem representative.





**DANGER:** Failure to follow this instruction manual may lead to significant property damage or may result in serious injury or death.

## Safety terminology and symbols

### About safety messages

It is extremely important that you read, understand and follow the safety messages and regulations carefully before handling the product. They are published to help prevent these hazards:

- Personal accidents and health problems
- Damage to the product
- Product malfunction

Hazard Level:	Indication:
 <b>DANGER</b>	A hazardous situation which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	A hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	A hazardous situation which, if not avoided, could result in minor or moderate injury.
 <b>NOTICE</b>	A potential situation which, if not avoided, could result in undesirable conditions. A practice not related to personal injury.

### Hazard categories

Hazard categories can either fall under hazard levels or let specific symbols replace the ordinary hazard levels symbols. Electrical hazards are indicated by the following specific symbols:



### **ELECTRICAL HAZARD:**

These are examples of other categories that can occur. They fall under the ordinary hazard levels and may use complementing symbols:

- Crush hazard
- Cutting hazard
- Arc flash hazard

## User safety

### General safety rules

These are safety rules apply:

- Always keep work area clean
- Pay attention to the risks presented by gas and vapors in the work area.
- Avoid all electrical dangers. Pay attention to the risks of electric shock or arc flash hazards
- Always bear in mind the risk of drowning, electrical accidents and burn injuries

### Safety equipment

Use safety equipment according to the company regulations. Use this safety equipment within the work area:

- Hard hat
- Safety goggles, preferably with side shields
- Protective shoes
- Protective gloves
- Gas mask
- Hearing protection
- First-aid kit
- Safety devices

**NOTICE:** Never operate a unit unless safety devices are installed.

### Electrical connections

Electrical connections must be made by certified electricians in compliance with all international, national, state and local regulations. For more information about requirements, see sections dealing specifically with electrical connections.

### Precautions before work

Observe these safety precautions before you work with the product or are in connection with the product:

- Provide a suitable barrier around the work area, for example, a guard rail
- Make sure that all safety guards are in place and secure
- Make sure that you have a clear path of retreat
- Make sure that the product cannot roll or fall over and injure people or damage property
- Make sure that the lifting equipment is in good condition
- Use a lifting harness, a safety line and a breathing device as required
- Allow all system and pump components to cool before you handle them
- Make sure that the product has been thoroughly cleaned
- Disconnect and lock out power before you service the pump
- Check the explosion risk before you weld or use electric hand tools

### Wash the skin and eyes

Follow these procedures for chemicals or hazardous fluids that have come into contact with your eyes or skin:

Condition	Action
Chemicals or hazardous fluids in eyes	1. Hold your eyelids apart forcibly with your fingers 2. Rinse the eyes with eyewash or running water for at least 15 minutes 3. Seek medical attention
Chemicals or hazardous fluids on skin	1. Remove contaminated clothing 2. Wash the skin with soap and water for at least 1 minute 3. Seek medical attention, if necessary

### Environmental safety

#### The work area

Always keep the station clean

#### Waste and emissions regulations

Observe these safety regulations regarding waste and emissions:

- Appropriately dispose of all waste
- Handle and dispose of the processed liquid in compliance with applicable environmental regulations
- Clean up all spills in accordance with safety and environmental procedures
- Report all environmental emissions to the appropriate authorities

**WARNING:** Radiation Hazard. Do NOT send the product to Xylem if it has been exposed to any nuclear radiation

#### Electrical installation

For electrical installation recycling requirements, consult your local electric utility

#### Recycling guidelines

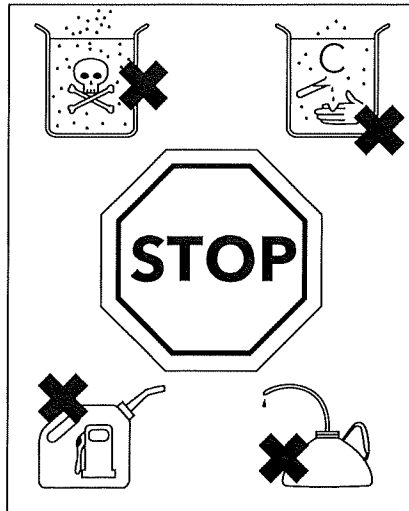
Always follow local laws and regulations regarding recycling



**WARNING:** This pump is designed for use with fresh water and salt water ONLY. Use with any other hazardous, caustic, or corrosive material could result in damage to the pump and the surrounding environment, possible exposure to hazardous substances and injury.



**WARNING:** Do not use a pump if it presents some damage such as burned or broken pressure switch, exposed electric wire and/or contacts.



## Installation/Mounting



**CAUTION:** Not For Continuous Duty, Intermittent Duty Only



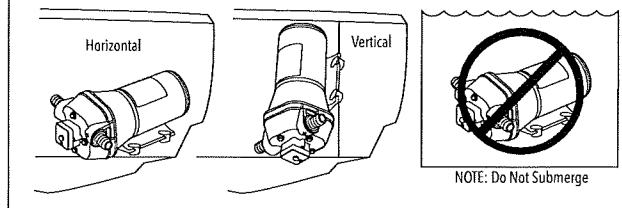
**CAUTION:** Installation Notes: To avoid the risk of fire. Be sure that the area where pump is installed is isolated from gas, fuel tanks, electrical wiring looms or flammable substances. Failure to do so may cause injury or death.



**CAUTION:** Installation Notes: To avoid the risk of fire. Do not install this product if visible damaged. If damage exposes electrical contacts, electrical sparks could ignite fuel fumes. Failure to do so may cause injury or death.

- 1: Select pump location. Pump must be installed in a dry, ventilated area.

Figure 2.



- 2: Connect fittings supplied with the pump to the vessels plumbing. Use  $\frac{1}{2}$ " (13mm) I.D. flexible hose (preferably braided or reinforced) to reduce vibration through the plumbing system (Figure 1). Use hose clamps on the slip on barb hose connectors.

Important: Install strainer pump inlet to protect valves from debris.

- 3: Fasten pump to a flat surface. If mounting vertically; install with pumphead down (Figure 2) Do not over tighten screws to allow rubber mounts to absorb vibration.
- 4: Install inlet (A) and discharge (B) fittings. Firmly push slide clips (C) forward to lock fittings in place. - Figure 3

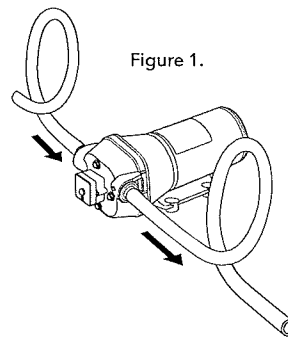


Figure 1.

Figure 3.

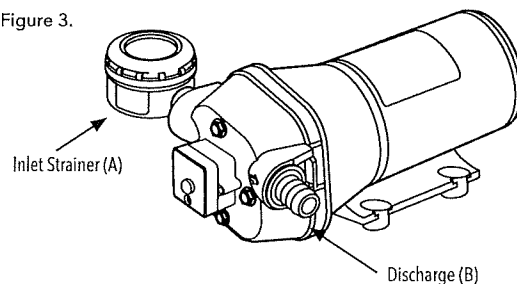
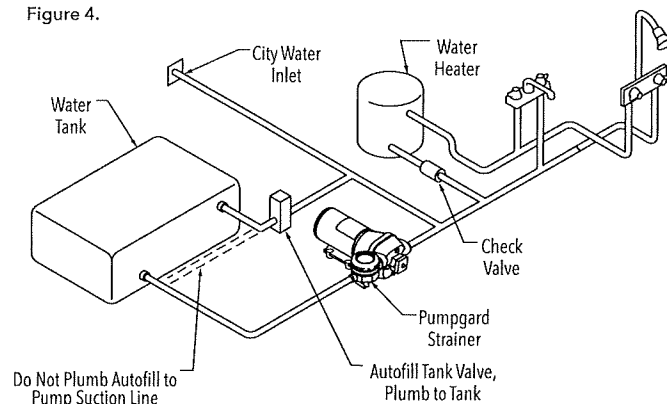




Figure 4.





## WARNING

### FIRE HAZARD



**Wiring must comply with applicable electrical standards and include a properly sized fuse or circuit breaker. Improper wiring can cause a fire resulting in injury or death.**

**CAUTION:** Suggested wiring information is given as a reference. For proper information, please reference ABYC E-11, AC and DC Electrical Systems on Boats guidelines.

#### Wire Size Table

Total Wire Length - feet (meters)

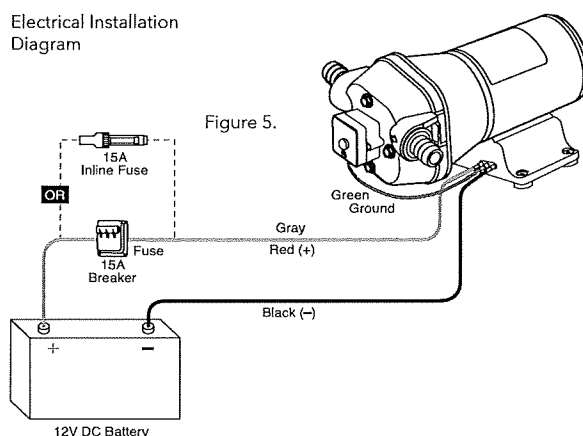
Pump Voltage	0 - 20 ft (0 - 6 m)	20 - 35 ft (6 - 9 m)	35 - 55 ft (9 - 12 m)
12 VDC	#14 AWG (2.5 mm <sup>2</sup> )	#12 AWG (4 mm <sup>2</sup> )	#10 AWG (6 mm <sup>2</sup> )
24 VDC	#16 AWG (1.5 mm <sup>2</sup> )	#14 AWG (2.5 mm <sup>2</sup> )	#12 AWG (4 mm <sup>2</sup> )

**CAUTION:** Motor case could get hot during extended operation. Prolonged contact with skin may cause a burn.

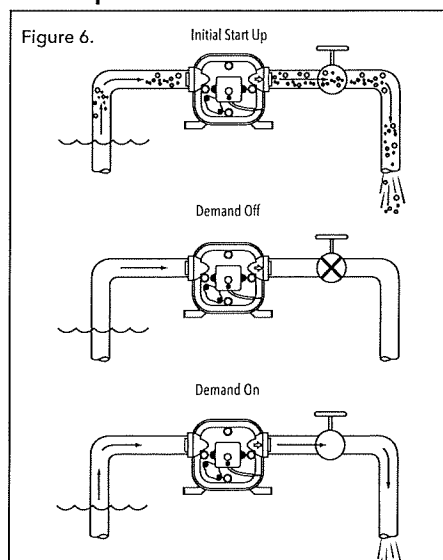
**WARNING:** Electrical connections should be performed by a competent marine electrical technician.

**CAUTION:** Disconnect power from the system before working on the unit to avoid personal injury, damage to the surrounding environment and/or damage to the unit.

Electrical Installation Diagram



## Start Up



- Fill water tank
- Open all faucets
- Turn pump switch "ON"

**NOTE:** Expect a 5 second delay for power up.

- When water is free of air, turn all faucets off beginning with the faucet closest to the pump (Figure 6)

**Important:** Do not operate the pump more than 15 minutes continuously.

## Winterizing



**CAUTION:** Allowing water to freeze in the system may result in damage to the pump and plumbing system. Non-Toxic antifreeze for potable water may be used with Jabsco pumps. Follow manufacturer's recommendations. Refer to boat or equipment manufacturer's instructions for their specific winterizing and drainage procedures. Do not use automotive antifreeze to winterize potable water systems. These solutions are highly toxic and may cause serious injury or death if ingested.

1. Drain the water tank. Open tank drain valve. You may use the pump to drain the tank by opening all the faucets in the system. Allow the pump to operate until the tank is empty. Do not operate the pump more than 15 minutes continuously.
2. Open all faucets and purge the water from the plumbing system. Turn off power to the pump. Be sure that all the water from the drain lines is drained.
3. Remove quick-connect inlet and outlet fittings from the pump and turn the pump on to pump out remaining water from the pump head. Be sure to have a catch pan or a rag under the pump to prevent water from spilling onto the boat. Turn the pump off once the plumbing is empty. Leave the fittings disconnected from the pump until the system is ready to be used again. Make a note on your tank filler that the plumbing is not connected.
4. Be sure that all faucets are left open to protect against damage to the plumbing.

## Model Reference

Model	Nominal DC Volts	Open Flow GPM (LPM)	Operating Pressure PSI (Bar)	Cut-out Pressure PSI (Bar)
42755-0092	12V dc	5.0 (19)	40 (2.75)	60 (4.1)
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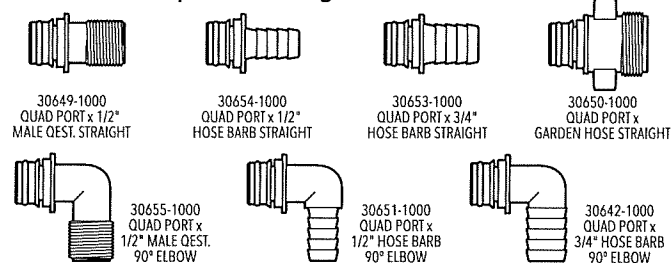
**Dimensions:** Width – 6 1/8 inches (155.58mm), Height – 4 3/4 inches (120.65mm), Length – 9 7/8 inches (250.83mm)

## Operation

Attribute	12 Volt	24 Volt
Time to reach full speed after faucet opened	5 seconds or less	5 seconds or less
Time to shut off after faucet completely closed	5 seconds or less	5 seconds or less
Over Voltage Threshold Setting (Unit automatically shuts off / will not run)	16 Volts DC	31 Volts DC
Under Voltage Threshold Setting (Unit automatically shuts off / will not run)	9 Volts DC	18 Volts DC
Under Current Threshold Setting (Unit automatically shuts off / will not run)	2 AMPS	2 AMPS

KEY	Description	Model No.	QTY
2	Valve Kit	18911-7030	1
3	Diaphragm Kit	18912-3040	1
4	Lower Housing Kit	18915-9002	1
5	Pressure Switch 60 psi (4.1 Bar) Cut-out	44050-1000	1
	Pressure Switch 35 psi (2.4 Bar) Cut-out	37121-0010	1
6	Service Kit	18920-9043	1
7	Motor 12V DC	18753-5236	1
	Motor 24V DC	18753-5237	1
8	Side Clips	30648-1000	1
9	Pump Head Assembly	18914-0030	1
10	Pumpgard™ Strainer (not shown)	46400-9500	1

## Accessories – Snap-In Port Fittings



**ABYC**  
Setting Standards for Safer Boating

Install to ABYC  
H-22, H-23 and E-11



We hereby declare, under our sole responsibility, that our product to which this declaration relates has been designed to comply in accordance with the following Directives:

Electromagnetic Compatibility Directive 2004/108/EC  
Recreational Craft Directive 2003/44/EC  
Restriction of Hazardous Substances Directive (RoHS) 2011/65/EU

With the relevant selections of the following Standards:

ISO 8846:1990 / Ignition Protection