

# National Marine Manufacturers Association

## Product Compliance Specialist Examination

### Seacocks and Thru-Hulls (2013 MY)

#### ABYC H-27 (08)

1. All of the following would be considered as a compliant seacock except
  - a. an in-line ball valve with a lever type handle operating through a 180° arc
  - b. a flanged sea valve which mounts directly to the boat hull structure
  - c. an in-line ball valve supported only by the through-hull fitting
  - d. a flanged sea valve which indicates open or shut
  
2. Maximum Heeled Waterline for a sailboat is
  - a. the level of water on the hull when the hull is inclined to 7°
  - b. the level of water on the hull when the hull is inclined to 28°
  - c. the level of water on the hull when the hull is inclined to the sheer at amidships
  - d. the level of water on the hull when the hull is inclined to the sheer at the transom
  
3. Expandable type drain plugs can only be used
  - a. if they are designed to allow disassembly
  - b. if they are designed to meet ANSI/UL 1121
  - c. if the boat is manually propelled
  - d. if the boat meets the flotation requirements of ABYC H-8
  
4. Attachment of the drain plug body to the hull shall be
  - a. water tight under normal operating conditions
  - b. water tight under any operating conditions
  - c. water tight using a UL Marine sealant
  - d. water tight, showing no leakage after 18 hours of submersion

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5. A boat in its “static floating position” includes all the following except
  - a. fuel tanks filled to rated capacity
  - b. water tanks filled to their rated capacity
  - c. optional engine(s), battery(s), seats, railings, fishing towers
  - d. permanently installed factory supplied equipment
  
6. All piping, tubing or hose lines penetrating the hull below the maximum heeled waterline shall be equipped with a seacock except
  - a. boats that comply with the Basic Flotation requirements of ABYC H-8
  - b. boats that utilize inflation chambers i.e. inflatables or RIBs
  - c. through hulls below the boats static floating position waterline that use reinforced piping or hose
  - d. through hulls above the boats static floating position waterline that use reinforced piping or hose
  
7. If a boat is fitted with a drain plug
  - a. it shall be readily accessible
  - b. it shall be accessible (allowing the use of “hand” tools)
  - c. it shall be of metallic construction
  - d. there’s no “if” about it, ALL boats must be fitted with a drain plug
  
8. Metal through hull fittings on metal hulled boats
  - a. must not be electrically isolated from the hull plating
  - b. must be “bonded” as per ABYC E-2
  - c. shall be galvanically compatible with the hull plating
  - d. cannot be used due to corrosion concerns

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9. You do not have to use a seacock to stop admission of water via through-hull fittings above the maximum heeled waterline if
- the boat is greater than 26' in length
  - double hose clamps are used at both ends of the hose
  - due to the design of the boat the valves would not be "readily accessible"
  - this standard does not require seacocks above the maximum heeled waterline
10. A properly installed seacock assembly will
- withstand a 500-pound static force applied for 30 seconds
  - withstand a 200-pound static force applied for 60 seconds
  - withstand a 500-pound static force applied for 30 seconds and will stop at least 50% the ingress of water afterward
  - withstand a 200-pound static force applied for 60 seconds and will stop at least 75% the ingress of water afterward
11. Installed drain plugs shall be installed in
- what is expected to be the lowest portion of the bilge when the boat is in its "static floating position"
  - what is expected to be the lowest portion of the bilge when the boat is in storage
  - what is expected to be the lowest portion of the bilge when the boat is on its trailer
  - what is expected to be the lowest portion of the bilge when the boat is underway
12. Tapered, soft-wood drain plugs
- may be used in wooden boats only
  - do not have to be water tight
  - must be kept dry when not in use
  - are non-compliant with this standard and may not be used

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13. If space constraints prevent the seacock from being directly connected to the through hull fitting
  - a. a flexible hose that is doubled clamped at each end may be used
  - b. changes to the boat design will have to be made
  - c. one non-flexible component may be installed
  - d. one non-flexible component not exceeding 6” in length may be installed
  
14. A boat is in its “static floating position” when afloat in calm, fresh water, with fuel tanks filled and
  - a. water tanks are full and waste tanks are empty
  - b. the number of persons posted on the boats capacity label are on board
  - c. all safety gear required by the USCG is properly stowed
  - d. “optional” T-top or Hardtop is installed
  
15. Boats with underwater engine exhaust thru-hulls
  - a. have automatic shutoffs operated by the engine ignition circuit
  - b. have an indicator of water passing through the exhaust terminus
  - c. must have seacocks fitted to each exhaust terminus
  - d. shall comply with ABYC P-1
  
16. Other standards are incorporated by reference within H-27. Which of the following is not listed in those references?
  - a. ABYC H-8, Buoyancy in the Event of Swamping
  - b. ABYC E-2, Cathodic Protection
  - c. ABYC H-4, Cockpit Drainage Systems
  - d. ABYC P-1, Installation of Exhaust Systems for Propulsion and Auxiliary Engines.

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17. In order to comply with this standard all boats must have a “readily accessible” drain plug
- True
  - False
18. Seacocks and Thru-hull fittings shall be designed and constructed to meet
- ANSI/UL 1121, Marine Through Hull Fittings and Sea-Valves
  - US Coast Guard Code of Federal Regulations 33 CFR
  - Independent third party standards such as USMAS
  - ANSI/UL 1211, Marine Through Hull Fittings and Sea-Valves
19. A through-hull discharge fitting of a bilge pump that is above the waterline but below the maximum heeled waterline of a sailboat must be fitted with a seacock (assume boat does not meet any exceptions to H-27.5.1).
- True
  - False
20. For the purposes of NMMA certification this standard, H-27 is only applied to boats over 26’ in the Yacht Program?
- True
  - False