

U.S. Department of
Homeland Security

United States
Coast Guard



Commandant
United States Coast Guard

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16703/46 CFR 56
2014-3298
September 17, 2014

Mr. Dan Hewson
Engineering Manager
Tube-Mac Industries Ltd.
853 Arvin Ave.
Stoney Creek, Ontario
L8E 5N8 CANADA

Dear Mr. Hewson:

We have reviewed your request of August 23, 2012, for U.S. Coast Guard acceptance as a compression fitting as described in 46 CFR 56.30-25. Your request includes successful pressure and fire test results based on recognized national and international standards. The initial request was supplemented in 2014 with specific fire test results conducted by Southwest Research Institute.

Based on our evaluation of the information provided, we consider the PYPLOK mechanical fittings, of carbon steel, stainless steel and copper nickel, acceptable for use in the following shipboard applications as afforded by 46 CFR 50.20-50(b):

- a) potable cold and hot water
- b) machinery sea water cooling inboard of the sea valve
- c) hot and chilled water for air conditioning
- d) bilge and ballast systems
- e) cargo oil systems
- f) fire main/sprinkler/foam systems
- g) fuel and /lubricating oil systems
- h) domestic sanitary drains and deck scuppers
- i) compressed air
- j) hydraulic systems

The fittings in these systems may not be used in spaces where undetected leakage may occur, except for ballast or fuel oil piping in their respective tanks. The use of these fittings in voids or other spaces which are not readily accessible must include provisions for the detection of leaks which, in addition to liquid leakage, may also include the detection of gases as a potential fire or explosion hazard. The use of these fittings in systems not mentioned above will be considered on a case-by-case basis if in compliance with Part 4 Section 6 of ABS Rules.

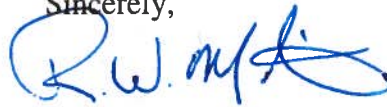
It is the manufacturer's responsibility to maintain qualification test reports during the life cycle of the products.

The fittings must be used within the limits of the nominal pressure ratings and materials appropriate to the piping systems listed in 46 CFR Part 56 and the manufacturer's catalog.

Anyone desiring to install the fittings on board a Coast Guard certificated vessel must be prepared to demonstrate, to the satisfaction of the attending marine inspector, that they have the proper equipment, procedures and trained personnel to install the PYPLOK mechanical fittings. The user of the connecting system must adhere to all manufacturer recommendations. Installation pressure tests may be required for certain systems in accordance with 46 CFR 56.97-40.

Each application of these fittings will be checked during plan review and installation on the vessel to ensure that pressure/temperature ratings and other service restrictions, as recommended by the manufacturer, are not exceeded.

Sincerely,



R. W. MARTIN
U.S. Coast Guard
Acting Chief, Systems Engineering Division
Office of Design and Engineering Standards
By direction of the Commandant

Copy: Commanding Officer, Coast Guard Marine Safety Center (MSC-2)