

U.S. Department of
Homeland Security

United States
Coast Guard



Commandant
United States Coast Guard

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2020-3706
16703/46 CFR 56
March 26, 2021

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

Dear Mr. Hewson:

This letter is in response to your company's email of March 16, 2021, requesting a revision of the USCG acceptance letter 2014-3298 of September 17, 2014. Specifically, you requested a revision to applicable materials and piping sizes. The correspondence also included a Type Approval Certificate from DNV GL, indicating compliance with DNV GL classification Rules.

Based on our evaluation of the information provided, and in consideration of previous submissions of pressure and fire testing results, we consider the PYPLOK mechanical fittings, as listed in Table 1, acceptable for use in the following shipboard applications as afforded by the provisions of 46 CFR 50.20-30(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

Table 1

PYPLOK Series	Size Range	Material
DM20 - NPS	1/4" thru 2"	Carbon Steel A105/A350 LF2 Stainless Steel 316/316L Duplex 2205/UNS31803 Super Duplex 2507/UNS32750 Copper Nickel C71500
DM60 - OD Tube	1/4" thru 2"	
DM80 - Metric Tube	6mm thru 60mm	
DP40N - NPS	2 1/2" (DN65) thru 4" (DN100)	
DP40M - Metric Tube	44.5mm (DN40) thru 57mm (DN50)	

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

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explosion hazard. The use of these fittings in systems not mentioned above will be considered on a case-by-case basis.

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,

A. M. GAROFALO
Lieutenant Commander, U.S. Coast Guard
Chief, Systems Engineering Division
Office of Design and Engineering Standards
By direction

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