



Type Approval Certificate Extension

This is to certify that Certificate No. 13/60003(E1) for the under noted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Tube-Mac Piping Technologies Ltd. 853 Arvin Avenue Stoney Creek, Ontario L8E 5N8 Canada
PLACES OF PRODUCTION	Tube-Mac Piping Technologies Ltd. 853 Arvin Avenue Stoney Creek, Ontario L8E 5N8 Canada
DESCRIPTION	PYPLOK Mechanically attached fittings compression coupling, 360° radial swage with o-ring seals.
TYPES	Carbon Steel, Stainless Steel (SS316), Copper Nickel (70/30 Cu/Ni)
APPLICATION	For application in Class I, II and III piping systems.
SPECIFIED STANDARDS	-Lloyd's Register Rules and Regulations for the Classification of Ships, 2012, Part 5, Chapter 12, Section 2. -Lloyd's Register Rules and Regulations for the Classification of Naval Ships 2012, Volume 2, Part 7, Chapter 1, Section 5 -Lloyd's Register Rules and Regulations for the Classification of a Floating Offshore Installations at a Fixed Location, 2008, Part 5, Chapter 11
Certificate No.	13/60003(E1)
Issue Date	08 June 2016
Expiry Date	14 March 2018
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-Lloyd's Register Rules and Regulations for the Construction and Classification of Submersibles & Underwater Systems, 1989, Part 5

RATINGS

	Diameters	Max Working Pressure (bar)
Carbon Steel	NPS – (1/4" – 3")	340 - 52
	OD Tube – (1/4" – 3")	390 - 52
	Metric – (6 – 60 mm)	370 - 52
Temp Range of Viton Seals: -20°C to 200°C		
Stainless Steel (SS316)	NPS – (1/4" – 3")	410 - 52
	OD Tube – (1/4" – 3")	480 - 52
	Metric – (6 – 60 mm)	450 - 52
Temp Range of Viton Seals: -20°C to 200°C		
Copper Nickel (70/30 CuNi)	NPS – (1/4" – 2 1/4")	270 - 15
	OD Tube – (1/4" – 2 1/4")	310 - 15
	Metric – (6 – 60 mm)	290 - 15
Temp Range of Viton Seals: -20°C to 200°C		

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 13/60003(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 13/60003 to which this extension should be attached.

Certificate No. 13/60003(E1)
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