



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Victaulic
Address	4901 Kessersville Road, Easton, Pennsylvania, 18040, United States
Place of Production	Victaulic POLSKA SP z o.o. ul. Niepodleglosci 8, Drezdenko, 66-530, Poland
Place of Production	Victaulic Company Alburtis Facility, 8023 Quarry Road, Alburtis, Pennsylvania, 18011, United States
Place of Production	Dalian Bingshan Metal Technology Co. Ltd. No. 9 Northeast 7th Street,, Dalian Economy & Technology Developing Zone, Dalian, 116600, China
Type	Bolted Clamp Connectors
Description	Grooved Pipe fittings. with Grade E-EPDM & Grade T- (Type A) Nitrile gaskets (Fire resistant type gaskets as per IACS UR P2.11) & Nitrile gaskets (non-fire tested type)
	TYPE 07, 75, 77, 99, 005, 750, 920 & 920N
Trade Name	07, 75, 77, 99, 005, 750, 920 & 920N

1330 Enclave Parkway, Houston, Texas, 77077,
United States

Gopal Nair

Piping & Pressure System Principal Specialist
to Lloyd's Register North America, Inc.
A member of the Lloyd's Register group

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Application	Lloyd's Register Rules and Regulations for Classification of Ships Part 5 Chapter 12 Section 2.12 - Other Mechanical Fittings
Specified Standard	Regulations for the Classification of Ships -2021 Rules and Regulations for Classification of Offshore Units - 2022 Rules and Regulations for Classification of Naval Ships-2022 IACS UR P 2.11 -2021 Shock Test as per MIL-S-901D 17 March 1989
Ratings	See Appendix attached to this certificate
Additional Tests	IACS UR P - 2.11 - Tightness , Vibration , Pressure Pulsation , Burst , Pull out , Fire endurance , Vacuum and Repeated assembly
Other Conditions	a) For application to specific systems refer to Rules and Regulations for the Classification of Ships Part 5, Chapter 12 section 2.12 and table 12.2.7 b) The EDPM and Nitrile T (type A) gaskets have passed the wet fire tests of thirty minutes duration in accordance with IACS UR P.2.11. Nitrile gaskets are non-fire tested type. Couplings with EDPM and Nitrile (Type A) gaskets can be installed where thirty minutes wet fire test is required or where no fire test requirements are specified in Part 5 Chapter 12 Table 12.2.7. c) Materials of the slip-on couplings are to be compatible with the piping material and internal and external media. d) Class I piping system all are to be machined groove type, style 99 which is non-grooved type are not to be used in class I systems. e) The above couplings are to be installed in accordance with manufacturer's instructions to the satisfaction of the attending Surveyor f) Material –Ductile Iron ASTM A 536 Grade 65-45-12. g) Coupling outlets containing threaded connections are subject to Part 5, chapter 11sections 2.10 and 2.11 of the Rules.

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- h) Couplings style 07 and 77 have passed shock test as per standard MIL-S-901D-1989 and use of this shock test standard to be verified for each naval application.
- i) The couplings are not to be used where dry fire test or 8 minutes dry & 22 minutes wet fire tests are specified in Part 5 Chapter 12 , table 12.2.7.

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 North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 99/60180(E5)

The Design Appraisal Document PRJ11100411115- Q/ATSO/23-0128 - 99/60180(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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