DNV·GL

Certificate No:
TAP00001E9

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pipe Couplings with Bolts Not Covered by a National Standard

with type designation(s)
Style 741

Issued to
Victaulic Company
Easton, PA, USA

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition January 2018
DNV GL class programme DNVGL-CP-0185 – Type approval – Mechanical joints

Application :

Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV GL.

Temperature range:	**EPDM 0°C to +110°C / Nitrile: 0°C to +82°C**
Max. working press.:	**15.5 bar**
Sizes:	**2"**

Issued at **Høvik** on **2018-11-08**
This Certificate is valid until **2023-06-30**.
DNV GL local station: **New York**

for **DNV GL**

Approval Engineer: **Iselinn Vindstad**

Marianne Spæren Marveng
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Victaulic Style 741 flange adapter.

Design:

The pipe is secured to the flanges by grooves. The sealing is provided by a rubber gasket internal to the flange adapter. Two hinged halves assembly with bolts and nuts. The flange adapeters have ANSI class 125/class 150 or PN0 bolt hole patterns.

Materials:

Flange halves: Ductile iron to ASTM A-536 Grade 65-45-12
Bolts and nuts: Carbon steel ASTM A-449
Gasket: Grade "E" EPDM or Grade "T" Nitrile

Manufacturing locations:

Victaulic Company
4901 Kesslersville Road,
Easton, PA 18040 USA

Victaulic Polska Sp. z o.o.
ul. Niepodległości 8
66-530 Drezdenko, Poland

Dalian Bingshan Metal Technology Co., Ltd.
No.9 Northeastern 7th Street Economic and Technology Development Zone,
Dalian, Liaoning, 116600, China

Application/Limitation

The Victaulic couplings may be used for the following systems on board:

Systems			Systems		
Flammable fluids (Flash point ≤ 60 °C)			Fresh water		
1	Cargo oil lines	+ 2)	21	Cooling water system	+
2	Crude oil washing lines	+ 2)	22	Condensate return	+
3	Vent lines	+	23	Non-essential system	+
Inert gas			Sanitary/Drains/Scuppers		
4	Water seal effluent lines	+	24	Deck drains (internal)	+ 3)
5	Scrubber effluent lines	+	25	Sanitary drains	+
6	Main lines	+ 1) 2)	26	Scuppers and discharge (overboard)	-
7	Distribution lines	+ 2)			
Flammable fluids (Flash point > 60°C)			Sounding/ vent		
8	Cargo oil lines	+ 2)	27	Water tanks/Dry spaces	+
9	Fuel oil lines	+ 1)	28	Oil tanks (flash point > 60°C)	+ 1)
10	Lubrication oil lines	+ 1)			
11	Hydraulic oil	+ 1)			
12	Thermal oil	+ 1)			
Sea Water			Miscellaneous		
13	Bilge lines	+	29	Starting/control air	-
14	Sprinkler system	+	30	Service air (non-essential)	+
15	Foam systems	+	31	Brine	+
16	Fire main	+	32	$C0_2$ system	-
17	Ballast system	+	33	Steam	+
18	Cooling water system	+			
19	Tank cleaning services	+			
20	Non-essential system	+			

The couplings are permitted for use in systems marked +, not permitted for systems marked -.

Limitations/remarks:

1) Not inside machinery spaces of category A or accommodation spaces. May be accepted in other machinery spaces provided the joints are located in easily visible and accessible positions.
2) Only in pump rooms and open decks
3) Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.

The coupling covered by this certificate is of fire resistant type, and may be used in systems where fire safe application is required.

When used in systems where vacuum may occur, precautions shall be taken to prevent the internal gasket from being drawn into the gap of the two pipe ends.

Materials chosen for the specific system shall be suitable for the intended medium and environmental conditions.

EPDM may not be used for hydrocarbon services.

The coupling is approved to be used in piping systems of class II and III.

The coupling is not to be used in piping systems subject to impulse loadings, e.g. hydraulic systems.

Type Approval documentation

Tests carried out

Tighntess test, burst pressure test, pull-out test, fire test, vibration test, vacuum test

Certification

Material certification shall be as per DNVGL-RU-SHIP Pt. 4 Ch. 6 Sec. 2 Table 3.

Marking of product

For traceability to this type approval, the couplings are at least to be marked with:
— manufacturer's name or trade mark
— type designation
— size

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.