



TYPE APPROVAL CERTIFICATE

Certificate No:
TAP00001DV
Revision No:
1

This is to certify:

That the Pipe Couplings

with type designation(s)

Victaulic fittings no: 10, 11, 12, 13, 20, 25, 30, 45, 50, 51, 60 and FireLock 001, 002, 003, 006

Issued to

Victaulic Company
Easton, PA, USA

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems

DNV class programme DNV-CP-0185 – Type approval – Mechanical joints

DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021

Application :

Products approved by this certificate are accepted for installation on vessels classed by DNV.

Temperature range: EPDM:0°C to +110°C / Nitrile: 0°C to +82°C

Max. working press.: see certificate

Sizes: see certificate

Issued at **Hamburg** on **2022-01-07**

for **DNV**

This Certificate is valid until **2023-06-29**.

DNV local station: **New York**

Approval Engineer: **Ana Cristina Do Carmo Insfran**

.....
Olaf Drews
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

www.dnv.com

Page 1 of 3

Product description

Victaulic fittings no: 10, 11, 12, 13, 20, 25, 30, 45, 50, 51, 60 and FireLock 001, 002, 003, 006

Design: The grooved fitting is joined to the grooved pipe by couplings. The sealing is provided by a rubber gasket, internal to the coupling.

Fitting material: Ductile iron to ASTM A-536 65-45-12

Material certification shall be as per DNV-Ship - Pt. 4 Ch. 6 Sec. 2 Table 3

Sizes :

Style No.	Type	Size (inch)
10	90° Elbow	¾, 1, 1 ¼, 1 ½, 2, 2 ½, 3, 3 ½, 4, 5, 6, 8, 10, 12
11	45° elbow	
12	22,5° elbow	
13	11,25° elbow	
20	Tee	
25	Reducing Tee	1 x 1 x ¾, 1 ¼ x 1 ¼ x 1, 1 ½ x 1 ½ x ¾, 1 ½ x 1 ½ x 1, 1 ½ x 1 ½ x 1 ¼, 2 x 2 x ¾, 2 x 2 x 1, 2 x 2 x 1 ¼, 2 x 2 x 1 ½, 2 ½ x 2 ½ x ¾, 2 ½ x 2 ½ x 1, 2 ½ x 2 ½ x 1 ¼, 2 ½ x 2 ½ x 1 ½, 2 ½ x 2 ½ x 2, 3 x 3 x ¾, 3 x 3 x 1, 3 x 3 x 1 ¼, 3 x 3 x 1 ½, 3 x 3 x 2, 3 x 3 x 2 ½, 4 x 4 x ¾, 4 x 4 x 1, 4 x 4 x 1 ¼, 4 x 4 x 1 ½, 4 x 4 x 2, 4 x 4 x 2 ½, 4 x 4 x 3, 5 x 5 x 1, 5 x 5 x 1 ½, 5 x 5 x 2, 5 x 5 x 2 ½, 5 x 5 x 3, 5 x 5 x 4, 6 x 6 x 1, 6 x 6 x 1 ½, 6 x 6 x 2, 6 x 6 x 2 ½, 6 x 6 x 3, 6 x 6 x 4, 6 x 6 x 5, 6 ½ x 6 ½ x 3, 6 ½ x 6 ½ x 4, 8 x 8 x 1 ½, 8 x 8 x 2, 8 x 8 x 2 ½, 8 x 8 x 3, 8 x 8 x 4, 8 x 8 x 5, 8 x 8 x 6, 8 x 8 x 165.1, 10 x 10 x 1 ½, 10 x 10 x 2, 10 x 10 x 2 ½, 10 x 10 x 3, 10 x 10 x 4, 10 x 10 x 5, 10 x 10 x 6, 10 x 10 x 8, 12 x 12 x 1, 12 x 12 x 2, 12 x 12 x 2 ½, 12 x 12 x 3, 12 x 12 x 4, 12 x 12 x 5, 12 x 12 x 6, 12 x 12 x 8, 12 x 12 x 10
30	45° Lateral	3, 4
45	Raised face Flat face	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 6, 8, 10, 12 2, 2 1/2, 3, 4, 6, 8, 10, 12
50	Eccentric Reducer	1 ¼ x ¾, 1 ¼ x 1, 1 ½ x ¾, 1 ½ x 1, 1 ½ x 1 ¼, 2 x ¾, 2 x 1, 2 x 1 ¼, 2 x 1 ½, 2 ½ x ¾, 2 ½ x 1, 2 ½ x 1 ¼, 2 ½ x 1 ½, 2 ½ x 2, 3 x ¾, 3 x 1, 3 x 1 ¼, 3 x 1 ½, 3 x 2, 3 x 2 ½, 3 ½ x 3, 4 x 1, 4 x 1 ¼, 4 x 1 ½, 4 x 2, 4 x 2 ½, 4 x 3, 4 x 3 ½, 5 x 2, 5 x 2 ½, 5 x 3, 5 x 4, 6 x 1, 6 x 1 ½, 6 x 2, 6 x 2 ½, 6 x 3, 6 x 4, 6 x 5, 8 x 2 ½, 8 x 3, 8 x 4, 8 x 5, 8 x 6, 10 x 4, 10 x 5, 10 x 6, 10 x 8, 12 x 4, 12 x 6, 12 x 8, 12 x 10
51	Concentric Reducer	
60	Cap	¾, 1, 1 ¼, 1 ½, 2, 2 ½, 3, 3 ½, 4, 5, 6, 8, 10, 12

Style No.	Type	Size (inch)
001 FireLock	90° Elbow	2, 2 ½, 3, 4, 5, 6, 8
002 FireLock	Straight Tee	
003 FireLock	45° Elbow	
006 FireLock	Cap	1 ¼, 1 ½, 2, 2 ½, 3, 3 ½, 4, 5, 6, 8

Application/Limitation

The fittings are approved to be used in piping systems of class II and III with the following DNV type approved couplings:

Coupling type	Coupling type approval certificate	Maximal working pressure [bar]
Style 75 and 750	TAP00001E7	16
Style 07	TAP00001EE	16
Style 77	TAP0000029	25

The application/limitations stated in the above-mentioned certificates are applicable.

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

Type Approval documentation

Type Approval Application dated on 2019-03-01
 Test Report dated on 2019-03-01
 Manufacturer's product catalogue no. 07.01 "Victaulic® Grooved End Fittings", rev. AF
 Manufacturer's product catalogue no. 10.03 "Victaulic® FireLock™ Fittings", rev. N
 CCS Burst pressure testing reports dated July 31, 2017 (witnessed by DNV GL)
 Renewal burst pressure test reports witnessed by DNV GL

Tests carried out

Burst pressure test

Manufacturer 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

Marking of product

For traceability to this type approval, the couplings are at least to be marked with:

- manufacturer's name or trademark
- type designation
- size

Periodical assessment

For retention of the Type Approval, a DNV 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 DNV-CP-0338.

Ende of Certificate