



## TYPE APPROVAL CERTIFICATE

**Certificate No.** : NYK05774-PE006 **Initial Approval** : 6th May, 2013.  
**Product** : Mechanical Joints  
**Manufacturer** : Victaulic Company  
 4901 Kesslersville Road, Easton, PA 18040, U.S.A.

**Product Description** : Mechanical Joints (Victaulic Style W77 AGS Grooved Couplings)

- Sizes : DN350 (14") ~ DN600 (24")
- Max. Working Press. : 20 bar
- Temperature range : -34 °C ~ 110 °C

" See Appendix 1 "

**Approval Condition** : " See Appendix 1 "

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 5, Ch. 6, Sec. 1 of the Rules for Classification, Steel Ships.

This Certificate is valid until 5th May, 2018.

Issued at Busan, Korea on 6th May, 2013.



**KOREAN REGISTER OF SHIPPING**

*[Signature]*  
 General Manager of  
 Materials and Equipment Team

**Note** : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

## Appendix 1

# Product Description and/or Approval Condition

Certificate No : NYK05774-PE006

Date of Issue : 6th May, 2013.

© Approval conditions :

1. This approval is granted on the basis of the approved drawings and test report witnessed by other Society.
2. Individual Product Certification is required where the mechanical joints are intended to use for Class I or II piping system.
3. The mechanical joints can be used for the following pipeline lines in easily visible and accessible positions :
  - Flammable fluids(Flash point  $\leq 60$  °C)
    - : Cargo oil lines, Crude oil washing lines and Vent lines
  - Inert gas
    - : Water seal effluent lines, Scrubber effluent lines and Distributions lines
    - : Main lines outside machinery space of category A and accommodation spaces
  - Flammable fluids(Flash point  $> 60$  °C)
    - : Cargo oil lines
    - : Fuel oil lines, Lubricating oil lines, Hydraulic oil lines and Thermal oil lines outside machinery space of category A and accommodation spaces
  - Sea water
    - : Bilge lines, Fire main and water spray lines, Foam system lines, Sprinkler system lines, Ballast system lines, Cooling water system lines, Tank cleaning services lines and Non-essential system lines
  - Fresh water
    - : Cooling water system lines, Condensate return lines and Non-essential systems lines
  - Sanitary/Drains/Scuppers
    - : Sanitary drain lines
    - : Deck drain lines(internal) above free board deck
  - Sounding/Vent
    - : Water tanks/Dry spaces lines
    - : Oil tanks lines(Flash point  $> 60$  °C) outside machinery space of category A and accommodation spaces
  - Miscellaneous
    - : Service air lines(non-essential) and Brine lines
4. Limitation :
  - . These mechanical joints, which in the event of damage could cause fire or flooding, are not to be used in piping sections directly connected to the sea openings or tanks containing flammable fluids.
  - . These mechanical joints are not to be used in pipelines in cargo holds, tanks, and other spaces which are not easily accessible. Application of these inside tanks may be permitted only for the same media that is in the tanks.

< The End >