



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

22-2228496-PDA
22-Mar-2022
21-Mar-2027
Houston ESD - Piping

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

VICTAULIC COMPANY

located at

4901 KESSLERSVILLE ROAD, EASTON, PA, United States, 18040

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Couplings and Additional Components
Model: Style 07, 75, 77, 741, 743, 750, 920 & 920N
Endorsements:
Tier: 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 21/Mar/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Yongjin Lee

Yongjin Lee, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

VICTAULIC COMPANY

4901 KESSLERSVILLE ROAD

EASTON PA

United States 18040

Telephone: 610-559-3300

Fax: 610-923-3139

Email: pickvic@victaulic.com

Web: www.victaulic.com

Tier: 3 - Type Approved, unit certification not required

Product: Couplings and Additional Components
Model: Style 07, 75, 77, 741, 743, 750, 920 & 920N
Endorsements:

Intended Service:

Marine & Offshore Applications - for Fresh, Sea Water Cooling, Bilge, Ballast, Fire Mains, Water Spray and Sprinkler Applications, Compressed Air, Sanitary, Potable Water Systems & in Vents, Overflows & Sounding Piping, Flammable Fluids.

Description:

Style 07 - Rigid Coupling; Style 75 - Flexible Coupling; Style 77 - Flexible Coupling; Style 741 - Vic-Flange; Style 743 - Vic-Flange; Style 750 - Reducing Coupling; Style 920 & 920N - Mechanical T Outlet

Rating:

See attached "pdf" for Sizes & Pressure.

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

For General Shipboard Service to be in accordance with Part 4 Section 6 & 9 of the Rules:

1. Fresh Water System - in accessible locations only;
2. Sea Water Cooling Systems - in accessible locations only and inboard of required shell valves or where shell valves (or the equivalent) are not required;
3. Bilge Pipes - in accessible locations only & not in cargo holds or deep tanks;
4. Ballast Systems - in accessible locations only or when the pipelines pass through other ballast tanks; They are also acceptable on tankers for clean ordinary ballast lines provided the lines terminate in the pump room;
5. Fire Mains, Water Spray, Sprinkler;
6. Compressed Air Systems - in accessible locations;
7. Sanitary Systems - in accessible locations only and inboard of required shell valves;
8. Acceptable in Vents, Overflows & Sounding pipes in accessible locations provided they are not located in such a position that subsequent leakage would create hazards by way of fire, damage to electrical systems or cargo and by the release of noxious or toxic vapors in enclosed spaces;
9. Potable Water Systems - in accessible locations;
10. The components are to be installed in a location where leakage would not create a hazard by way of damage to electrical systems or otherwise create a hazard to the vessel, equipment or personnel onboard;
11. The components and gaskets (Victaulic Gasket Selection Data 05.01) are to be installed in accordance with the manufacturer's recommendation / limitations / requirements.
12. The following couplings are not to be used in systems where pressure pulsation is expected in accordance with 4-6-2 / Table 12 Note 1. Style 07 sizes greater than 6", Style 77 sizes greater than 6", Style 741 all sizes, Style 743 sizes greater than 2"; Style 750 sizes greater than 3" x 4". See attached .pdf for additional information.
13. Grade 'E' EPDM gasket is fire tested, and are approved, fire resistant type.
14. Grade 'T' (Type A) Nitrile gasket is fire tested for models 07, 75, 77, 741, 743 and are approved, fire resistant type.
15. For flammable fluid applications, the Nitrile Grade 'T' (Type A) gaskets are to be used in accordance with 4-6-2/ Table 10.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

The Pressure Ratings are based upon connecting of subject components with at least Standard Steel Piping (A-53 & ASTM 106). Materials of components is ASTM A-536.

VICTAULIC COMPANY

4901 KESSLERSVILLE ROAD

EASTON PA

United States 18040

Telephone: 610-559-3300

Fax: 610-923-3139

Email: pickvic@victaulic.com

Web: www.victaulic.com

Tier: 3 - Type Approved, unit certification not required

Notes/Drawing/Documentation:

Drawing No. Correspondence, PDA Application, Revision: -, Pages: 4

Drawing No. Correspondence, Summary, Revision: -, Pages: 5

Drawing No. Declaration of Conformity, Revision: -, Pages: 4

Drawing No. 06.04, Victaulic Standard Flexible Coupling STYLE 77, Revision: -, Pages: 1

Drawing No. 06.06, Victaulic Vic-Flange Adapters Styles 741 and 743, Revision: -, Pages: 1

Drawing No. 06.08, Reducing Coupling STYLE 750, Revision: -, Pages: 1

Drawing No. 11.02, Mechanical-T Bolted Branch Outlets STYLES 920 AND 920N, Revision: -, Pages: 1

Drawing No. 6 X 3-920-U, TEE, MECHANICAL THREADED OUTLET, 6/168,3mm X 3/88,9mm STYLE 920, Revision: R, Pages: 1

Drawing No. C-H-020-075-001, HOUSING, COUPLING, 2 / 60,3mm & 50 A JIS (UJC) STYLE 75, Revision: D, Pages: 1

Drawing No. D-C-000-077-001, COUPLING ASSEMBLY, 3/4 / 26,9mm THRU 30 / 762mm STYLE 77, Revision: R, Pages: 1

Drawing No. D-C-010-007-000, COUPLING ASSEMBLY, RIGID, ZERO-FLEX, 1 / 33,7mm THRU 24 / 610mm STYLE 07, Revision: V, Pages: 1

Drawing No. D-C-080-920-015, MECHANICAL TEE OUTLET HOUSING, LOWER, 8 / 219, 1mm STYLE 920, 422, Revision: O, Pages: 2

Drawing No. D-H-024-920-001, TEE, MECHANICAL, THREADED OUTLET, 2-1/2 X 1 / 73mm X 33,7mm STYLE 920N, Revision: H, Pages: 1

Drawing No. D-H-024-920-006, TEE, MECHANICAL, THREADED OUTLET, 2-1/2 X 1/2 & 3/4/73mm X 21,3mm & 26,9mm STYLE 920N, Revision: H, Pages: 1

Drawing No. D-H-030-075-002, HOUSING, COUPLING, 76,1mm & 65 A JIS (UJC) STYLE 75, Revision: G, Pages: 2

Drawing No. D-H-040-075-001, HOUSING, COUPLING, 4 / 114,3mm & 100 A JIS (UJC) STYLE 75, Revision: G, Pages: 2

Drawing No. D-H-040-920-013, TEE, MECHANICAL THREADED OUTLET, 4 X 1/2 & 3 / 114,3mm X 21,3mm & 26,9mm STYLE 920N, Revision: I, Pages: 1

Drawing No. D-H-040-920-026, MECHANICAL TEE OUTLET HOUSING, LOWER, 4 / 114,3mm STYLE 920, 422, Revision: G, Pages: 2

Drawing No. D-H-060-920-002, TEE, MECHANICAL THREADED OUTLET, 6 X 1-1/4 / 168, 3mm X 42,4mm STYLE 920N, Revision: F, Pages: 1

Drawing No. D-H-060-920-009, TEE, MECHANICAL THREADED OUTLET, 6 X 1-1/2 / 168, 3mm X 48,3mm STYLE 920N, Revision: G, Pages: 1

Drawing No. D-H-060-920-012, HOUSING, MECHANICAL TEE OUTLET, UPPER, GROOVED, 6 X 1-1/4 / 168, 3mm X 42,4mm STYLE 920N, Revision: H, Pages: 1

Drawing No. D-H-060-920-013, HOUSING, MECHANICAL TEE OUTLET, UPPER, GROOVED, 6 x 1-1/2 / 168,3mm x 48,3mm STYLE 920N, Revision: F, Pages: 1

Drawing No. D-H-060-920-029, MECHANICAL TEE OUTLET HOUSING, LOWER, 6 / 168,3mm STYLE 920, 422, Revision: E, Pages: 1

Drawing No. D-H-064-075-018, HOUSING, COUPLING, 165,1mm & 150 A JIS (UJC) STYLE 75, Revision: J, Pages: 2

Drawing No. D-H-159-920-004, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 159mm X 108mm STYLE 920, Revision: E, Pages: 3

Drawing No. G-014-077-003, GASKET, STANDARD, 1-1/2 / 48,3mm STYLE 07,75,77,78,99, Revision: C, Pages: 1

Drawing No. G-020-077-005, GASKET, STANDARD, 2 / 60,3mm STYLE 07,75,77,78, Revision: H, Pages: 1

Drawing No. G-080-077-005, GASKET, STANDARD, 8 / 219,1mm STYLE 07,75,77,78, Revision: C, Pages: 1

Drawing No. G-100-077-002, GASKET, STANDARD, 10 / 273mm STYLE 07,75,77,78, Revision: C, Pages: 1

Drawing No. G-120-077-003, GASKET, STANDARD, 12 / 323,9mm STYLE 07,75,77,78, Revision: C, Pages: 1

Drawing No. G-761-077-001, GASKET, STANDARD, 76,1mm STYLE 07,75,77,606, Revision: E, Pages: 1

Drawing No. H-050-920-003, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 5 / 141,3mm X 76,1mm STYLE 920, Revision: D, Pages: 1

Drawing No. H-080-920-001, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 8 X 2 / 219,1mm X 60,3mm STYLE 920, Revision: D, Pages: 1

VICTAULIC COMPANY

4901 KESSLERSVILLE ROAD

EASTON PA

United States 18040

Telephone: 610-559-3300

Fax: 610-923-3139

Email: pickvic@victaulic.com

Web: www.victaulic.com

Tier: 3 - Type Approved, unit certification not required

Drawing No. H-080-920-010, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 8 / 219,1mm X 76,1mm STYLE 920, Revision: C, Pages: 1

Drawing No. H-139-920-009, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 139,7mm X 88,9mm STYLE 920, Revision: E, Pages: 1

Drawing No. H-761-920-003, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 76,1mm X 42,4mm STYLE 920N, Revision: E, Pages: 1

Drawing No. H-761-920-004, MECHANICAL TEE OUTLET HOUSING, UPPER, GROOVED, 76,1mm X 48,3mm STYLE 920N, Revision: E, Pages: 1

Drawing No. H-761-920-006, TEE, MECHANICAL THREADED OUTLET, 76,1mm X 1/2, 3/4, 1 NPT & BSPT. ISO 7-Rp 1/2 & 3/4, Revision: D, Pages: 2

Drawing No. ISO 19921, Witness Test, Revision: -, Pages: -

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 21/Mar/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS**ABS Rules:**

Rules for Conditions of Classification, Part 1- 2022 Rules for Building and Classing Marine Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2022 Marine Vessel Rules: 4-6-2/5.5, 4-6-2/5.9;

Rules for Conditions of Classification, Part 1 – 2022 Rules for Building and Classing Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2022 Mobile Offshore Unit Rules: 4-2-1/11.13

National:

NA

International:**Government:**

NA

EUMED:

NA

OTHERS:

IACS UR P2 (Updated February 2021)