Certificate Number: 18-HS1719687-PDA 10/APR/2018



## Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 21-MAR-2023. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Valve, Butterfly Model Name(s): Series HL, Lug

## **Presented to:**

MILWAUKEE VALVE CO., INC. 16550 WEST STRATTON DRIVE WI 53151-7301 United States

Intended Service:	Marine and Offshore Applications - Fresh Water, Seawater, Fuel Oil, Lube Oil, Air, Inert Gases, Petroleum Products.
Description:	Series HL - Lug type body Body material: Ductile Iron (ASTM A536), Ductile Iron-Epoxy Coated; Disc material: Aluminum Bronze (ASTM B148); Stainless Steel (TYPE 316), NP Ductile Iron (ASTM A536); Ductile Iron-Epoxy Coated; Seat material: BUNA, EPDM, VITON, HYPALON, NEOPRENE
Tier:	3
Ratings:	Sizes: 2" thru 12" (50 mm thru 300 mm) Pressure rating: 250 psi (1725 kPa) See attached "pdf" for construction and materials details.
Service Restrictions:	1. 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. 2. Valves are not to be used where materials readily rendered ineffective by heat are not acceptable, unless the fire test report conforming to the latest edition of a recognized standard acceptable to ABS is submitted. 3. All butterfly valves are not to be used on oil tanks (including cargo, oil tanks) having a static head of flammable oil. 4. Butterfly valves of ductile iron are not to be used for temperature above 350 degree C. 5. Gray Cast Iron valves not to be used as shell valves, at to the collision bulkhead and shutoff valve for fuel oil tanks. Nodular iron or ductile iron will be accepted provided the material has an elongation not less

os in this product. 2 acturer's name or tra- re rating, etc., as rea acturer's specificatio ed on, or securely af ermanent means of it es for intended for in are to be hydrostatic the presence of the acturer states valves SS SP 67. g No. Declaration of ation of Conformity s 1 Drawing No. HL_ roduct Design Asses /2018 remains valid the assessment ar- roduct to be installed ce or under contrac cations used to eval MODU or facility will ecifications used to Jse of the Product for greement between the	2. All valves are to be ademark, standard o quired by the standard on. Such markings m fixed by nameplate identification of the o nstallation on shipsid cally tested, before in Surveyor. (4-6-2/7.3 s are designed and t f Conformity signed signed - HL Series 0 _2-12, HL Series 2, F ssment (PDA) Certifi d until 21/Mar/2023 o re revised (whicheve d on an ABS classed the roduct. Us hich is contracted af evaluate the Product. Us hich is contracted af evaluate the Product or non ABS classed the manufacturer an of Classification, Part : 2018 Steel Vessels	icate 18-HS1719687-PDA, dated or until the Rules or specifications r occurs first). This PDA is intended d vessel, MODU or facility which is in the date of the ABS Rules or se of the Product on an ABS classed fter the validity date of the ABS Rules ct, will require re-evaluation of the vessels, MODUs or facilities is to be id intended client. t 1 2018 1-1-4/7.7, 1-1-A3, 1-1-A4,
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log for Conditions -	: 2018 Steel Vessels	
which covers the following: 2018 Steel Vessels Rules 4-6-2/3, 4-6-2/5.11,4-6-2/7.3.2, 4-6-2/9.13; The Rules for Conditions of Classification, Part 1 2018 Offshore Units and Structures 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2018 Mobile Offshore Drilling Units Rules 4-2-2/9, 4-2-2/17, 4-2-2/21		
9 (2017); MSS SP 6	67(2017)	
Certificate No	Issue Date	Expiry Date
1719687-PDA	28-MAR-2018	21-MAR-2023
		Jame Delooch ABS Programs

date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.