



CERTIFICATE NUMBER
17-SG1637668-PDA

DATE
29 May 2017

ABS TECHNICAL OFFICE
Singapore Engineering Services

CERTIFICATE OF DESIGN ASSESSMENT

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

FLUID CONTROLS PVT LTD

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: **Valve**


Model: **Needle Valve, Colour Flow Control Valve, Plug Valve, Globe Isolation/Shut Off Valve, Ball Valve, Non Return Valve, Gauge Valve, Bellow Seal Needle Valve.**

This Product Design Assessment (PDA) Certificate 17-SG1637668-PDA, dated 29/May/2017 remains valid until 28/May/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Vibin Chandrabose
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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

FLUID CONTROLS PVT LTD

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Tier: 2 - PDA Issued

Product: Valve**Model:** Needle Valve, Colour Flow Control Valve, Plug Valve, Globe Isolation/Shut Off Valve, Ball Valve, Non Return Valve, Gauge Valve, Bellow Seal Needle Valve.**Intended Service:**

Marine and Offshore Hydraulic/Pneumatic Applications - Tubing/Piping Systems

Description:

Needle Valve, Colour Flow Control Valve, Plug Valve, Globe Isolation/Shut Off Valve, Ball Valve, Non Return Valve, Gauge Valve, Bellow Seal Needle Valve.

Size: 1/8" to 2" and 3 – 38mm;

Material: ASTM A105, ASTM A 182/ASTM A479 (304, 304L, 316, 316L), ASTM B16/B16M(C360);

See Attached Table – Type of Valves for details.

Rating:140 kg/cm² to 400 kg/cm² @ Room Temperature. See attachment for details.**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.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Size, Rating, Material, Manufacturer's name or trademark, etc. as required by the standard of compliance or the manufacturer's specification are to be marked.
3. The manufacturer of a valve is to guarantee that the valve is constructed to the standard and conforming to the identifications to which it is marked. The manufacturer is to guarantee also that the valve has been tested before shipment to the pressure required by the pressure rating of the valve. The certificate of test is to be submitted upon request.

Notes/Drawing/Documentation:

See attachment

Terms of Validity:

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STANDARDS

FLUID CONTROLS PVT LTD

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ABS Rules:

Rules for Conditions of Classification 2017: 1-1-4/7.7, 1-1-Appendix 3 and 1-1-Appendix 4

Steel Vessel Rules 2017: 4-6-1/7.5.2 Table 1 & 2, 4-6-2/3, 4-6-2/5.11, 4-6-2/5.17;

Steel Vessels Under 90 Meters (295 Feet) in Length 2017: 4-1-1/3.3, 4-4-2/9, 4-4-2/11;

Offshore Support Vessels 2017: 4-1-1/3.3, 4-6-1/7.1.2, 4-6-2/5.11, 4-6-2/5.17;

Mobile Offshore Drilling Units Rules 2017: 1-1-4/9.7, 1-1-Appendix 2 and 3;

Facilities on Offshore Installations 2017: 1-1-4/9.7, 1-1-Appendix 2 and 3

National:

NA

International:

ASME B16.34(2013);

Threading: ANSI B1.20.1(2013)/ ISO-228(2000) /ISO-7/1(1994);

Testing: MSS SP 99, ISO 15848-1(2006), API 607 6th Edition (2010)/ISO 10497(2010);

Government:

NA

EUMED:

NA

OTHERS:

NA