



CERTIFICATE NUMBER 22-2257411-PDA
EFFECTIVE DATE 26-May-2022
EXPIRATION DATE 25-May-2027
ABS TECHNICAL OFFICE Singapore Engineering Services

CERTIFICATE OF Product Design Assessment

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

FLUID CONTROLS PVT LTD

located at

**GAT NO 378/1, TALEGAON CHAKAN ROAD,, VILLAGE –
KHARABWADI, TALUKA – KHED,, PUNE, PUNE, MAHARASHTRA,
INDIA, 410501**

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 remains valid until 25-May-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

Vibin Chandrabose, Senior Engineer

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

FLUID CONTROLS PVT LTD

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Telephone: +91-22-433 380 00

Fax: +91-22-433 380 01

Email: sophie@fluidcontrols.com

Web: www.fluidcontrols.com

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.

Endorsements:

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:

Design Pressure Range: 140 kg/cm² to 400 kg/cm²

Design Temperature Range: -96 degC to 540 degC

See attachment for details.

Service Restriction:

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. For sea water piping systems in which sea water may be retained within the piping system in a stagnant or low flow condition (i.e., less than 1 m/sec), the following grades are not to be used for the piping or piping components:
 - 304 and 304L stainless steels
 - 316 and 316L stainless steels with a molybdenum content of less than 2.5%
 - Other stainless grades when used are to be confirmed suitable for the application by the manufacturer.
3. Not intended for liquefied gas piping systems.

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.
4. Pipe fittings for design temperature lower than -18 degC are to have adequate notch toughness properties. Specifications of acceptable materials are in Section 2-3-13 of the ABS Rules for Materials and Welding.

Notes/Drawing/Documentation:

See attachment

Terms of Validity:

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STANDARDS

ABS Rules:

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

2022 Rules for Building and Classing Marine Vessel Rules: 4-1-1/3.3, 4-6-1/7.1.2, 4-6-1/7.5.2, 4-6-1/Table 1, 4-6-1/Table 2, 4-6-2/3, 4-6-2/5.11, 4-6-2/5.17

2022 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-A2 and A3, which covers the following:

2022 Rules for Building and Classing Mobile Offshore Units: 4-2-2/5, 4-2-2/9.1.1, 4-2-2/9.3, 4-2-2/9.5

2022 Rules for Conditions of Classification - Light and High Speed Craft 1-1-4/11.9, 1-1-A2 and A3, which covers the following:

2022 Rules for Building and Classing High Speed Crafts: 4-4-2/5, 4-4-2/11.1.1, 4-4-2/11.3, 4-4-2/11.5

National:

NA

International:

ASME B16.34 (2020)

End Connection: ASME B16.5 (2020), B16.9 (2018), B16.11 (2016), ANSI B1.20.1 (2013), ISO-228 (2000), ISO-7/1 (1994);

Testing: MSS SP 99, ISO 15848-1 (2015), API 607 7th Edition (2016)/ISO 10497(2010);

Government:

NA

EUMED:

NA

OTHERS:

NA