



CERTIFICATE NUMBER 23-2379975-PDA  
EFFECTIVE DATE 16-MAR-2023  
EXPIRATION DATE 15-MAR-2028  
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 Manifold**

**Model 3 FFMNVN-HM1-4DN-DP, 8-2 MNV-PTM1-4DN-DP, 8-3 FMNV-4DN-DP, 8-3 MNVN-RM1, 8-5 FFMNV-HM-4DN-DP(8-5 FFMNV-DM2), 8-5 FMNV-4DN-DP, 8-5 MNV-RM1-4DN-DP**

This Product Design Assessment (PDA) Certificate remains valid until 15-MAR-2028 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

Wu Guanying, 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

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**Tier: 2 - PDA Issued**

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**Product:** Valve, Manifold  
**Model:** 3 FFMNVN-HM1-4DN-DP  
8-2 MNV-PTM1-4DN-DP  
8-3 FMNV-4DN-DP  
8-3 MNVN-RM1  
8-5 FFMNV-HM-4DN-DP(8-5 FFMNV-DM2)  
8-5 FMNV-4DN-DP  
8-5 MNV-RM1-4DN-DP

**Endorsements:**

**Intended Service:**

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

**Description:**

3 Valve Manifold Direct Mounting H Type  
2 Valve Manifold PTM-1  
3 Valve Manifold Direct Mounting T Type  
3 Way Manifold RM-1  
5 Valve Manifold Direct Mounting H Type  
5 Valve Manifold Direct Mounting T Type  
5 Valve Manifold Remote Mounting Type 5 RM 1  
Connection: 1/2" NPT as per ABSI B1.20.1; Flanged; 1/4" NPT(F) for Drain

Material: ASTM A105, ASTM A 182/ASTM A479 (304, 304L, 316, 316L)

**Rating:**

Pressure Rating 800 Class. 200 kg/cm2 @ Room Temperature.

**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:**

- 1) Drawing No. 3 FFMNVN-HM1-4DN-DP, 3 Valve Manifold Direct Mounting H Type, Revision: 0, Pages: 1
- 2) Drawing No. 8-2 MNV-PTM1-4DN-DP, 2 Valve Manifold PTM-1, Revision: 0, Pages: 1
- 3) Drawing No. 8-3 FMNV-4DN-DP, 3 Valve Manifold Direct Mounting T Type, Revision: 0, Pages: 1
- 4) Drawing No. 8-3 MNVN-RM1, 3 Way Manifold RM-1, Revision: 0, Pages: 1
- 5) Drawing No. 8-5 FFMNV-HM1-4DN-DP (8-5 FFMNV-DM2), 5 Valve Manifold Direct Mounting H Type,

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Revision: 1, Pages: 1

6) Drawing No. 8-5 FMNV-TM1-4DN-DP(8-5 FMNV-4DN-DP ), 5 Valve Manifold Direct Mounting T Type,

Revision: 1, Pages: 1

7) Drawing No. 8-5 MNV-4DN-DP (8-5 MNV-RM1-4DN-DP), 5 Valve Manifold Remote Mounting Type 5 RM 1,

Revision: 1, Pages: 1

8) Drawing No. Manifold , Manifold Tensile Strength calculation, Revision: 1, Pages: 1

9) Drawing No. Types of manifold, Manifold Categories, Revision: 1, Pages: 1

10) Fluid Controls Private Limited, Report No. Assy/2017/105 Amnd.I, Hydrostatic Test (ASME B16.34-2017)

Report dated 24 Nov 2017, Revision: 1, Pages: 1

11) Fluid Controls Private Limited, Report No. Assy/2017/111 Amnd.I, Hydrostatic Test (ASME B16.34-2017) dated 21 Nov 2017, Revision: 1, Pages: 1

12) Fluid Controls Private Limited, Report No. Assy/2017/113 Amnd.I, Hydrostatic Test (ASME B16.34-2017) dated 24 Nov2017, Revision: 1, Pages: 1

13) Fluid Controls Private Limited, Report No. Assy/2017/113A Amnd.I, Hydrostatic Test (ASME B16.34-2017) dated 24 Nov 2017, Revision: 1, Pages: 1

14) Fluid Controls Private Limited, Report No. Assy/2017/116 Amnd.I, Hydrostatic Test (ASME B16.34-2017) dated 24 Nov2017, Revision: 1, Pages: 1

15) Fluid Controls Private Limited, Report No. Assy/2017/119 Amnd.I, Hydrostatic Test (ASME B16.34-2017) dated 24 Nov2017, Revision: 1, Pages: 1

16) Fluid Controls Private Limited, Report No. Assy/2017/130 Amnd.I, Hydrostatic Test (ASME B16.34-2017) dated 24 Nov2017, Revision: 1, Pages: 1

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

ABS Rules for Conditions of Classification (2023) 1-1-4/7.7, 1-1-A3 and A4, which covers the following:

2023 Rules for Building and Classing Marine Vessels 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

ABS Rules for Conditions of Classification – Offshore Units and Structures (2023) 1-1-4/9.7, 1-1-A2 and A3, which covers the following:

2023 ABS Rules for Building and Classing Mobile Offshore Units 4-2-1/Table 1, 4-2-2/9, 4-2-2/11, 4-2-2/17

**National:**

NA

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**International:**

- 1) ASME B16.34-2020 Valves Flanged, Threaded and Welding End (Published on January 2021)
- 2) Threading: ANSI B1.20.1-2013 Pipe Threads, General Purpose (Inch) (Published on November 2013)
- 3) Testing: MSS SP 99-2016 Instrument Valves (Published on January 2016)

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA