



## *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 20-AUG-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:** Pump, Hydraulic

**Model Name(s):** Gold Cup Pumps and Motors: P6, P7, P8, P11, P14, P24, P30;  
M6, M7, M8, M11, M14, M24, M30.

**Presented to:**

PARKER HANNIFIN HYDRAULIC PUMP DIVISION  
14249 INDUSTRIAL PARKWAY  
OH 430409551  
United States

**Intended Service:**

Steering Gear Power Unit Pumps.

**Description:**

Denison Gold Cup Pumps P6, P7, P8, P11, P14, P24, and P30; Denison Gold Cup Motors: M6, M7, M8, M11, M14, M24 and M30.

**Tier:**

3

**Ratings:**

Series P6: 5000 psi @ 1800 RPM, 6.00 in<sup>3</sup> Max. Displacement Series P7: 5000 psi @ 1800 RPM, 7.25 in<sup>3</sup> Max. Displacement Series P8: 5000 psi @ 1800 RPM, 8.00 in<sup>3</sup> Max. Displacement Series P11: 5000 psi @ 1800 RPM, 11.00 in<sup>3</sup> Max. Displacement Series P14: 5000 psi @ 1800 RPM, 14.00 in<sup>3</sup> Max. Displacement Series P24: 5000 psi @ 1800 RPM, 24.60 in<sup>3</sup> Max. Displacement Series P30: 5000 psi @ 1800 RPM, 30.60 in<sup>3</sup> Max. Displacement

**Service Restrictions:**

- Unit Certification is required for this product if the pumps are used for services listed in Steel Vessels Rules (SVR) 4-6-1/7.3.1. - Hydrostatic and Capacity testing is to be performed at the manufacturer's plant in the presence and to the satisfaction of the Surveyor as indicated in SVR 4-6-1/7.3.2 a) & b).

**Comments:**

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

**Notes / Documentation:**

Supporting Documentation: Dwg No. 23-7957 Rev. G 11.0 & 14.0 C.V. Motors

W/WO Shuttle Valve SAE-E 4-Bolt Mounting Dwg No. 23-9294 Rev. G "D" Mod. 6.0 & 7.25 C.V. Motors W/SAE-C 2-Bolt Mounting or W/SAE-D 4 Bolt Mounting Dwg No. 23-9704 Rev. T Basic 6.0 & 7.25 VV Pumps (Less Controls) Closed Loop (P\*P) & Open Loop (P\*V) SAE-C 2-Bolt & SAE-D 4-Bolt Mounting Dwg No. 23-9764 Rev. F Install-Fixed Displ. Motor With or Without Shuttle Valve SAE-F 4 Bolt MTG. Dwg No. 23-9787 Rev. - V.V. Pump W/Hyd. Stroker (Spring Centered W/Trimmer) With Adj. Max. Vol. Stops: SAE-E 4-Bolt Mounting Dwg No. 23-9825 Rev. A Install Fixed Displ. Motor With or Without Shuttle Valve SAE-F 4-Bolt MTG. Dwg No. 23-9842 Rev. D P6P/P7P V.V. Pumps "A" and "B" Input, Hydraulic Stroker, CW and CCW Rotation, Volume Indicator, 6000 Psi Sys. Ports, SAE-C 2-Bolt MTG. Dwg No. 23-9913 Rev. N Basic CIPR "B" Mod. V.V. Pump Without Controls SAE-F 4-Bolt Mounting. Dwg No. 23-9914 Rev. B P24P or P30P With "5A2" Control with Internal Cartridge CW/CCW Rotation SAE-F 4-Bolt MTG. Dwg No. 23-9920 Rev. F P24P or P30P With "9A2" Control with Internal Cartridge CW/CCW Rotation SAE-F 4-Bolt MTG. Dwg No. 23-9922 Rev. M Basic 24 CIPR "E" Mod. V.V. Pump Without Controls SAE-F 4-Bolt Mounting Dwg No. S13-43630 Rev. N Sub-Assy. Aux. PKG. VAR. Displ. Pump, CCW Rot. "A" MTG. Closed Loop Dwg No. S13-43972 Rev. U Assembly Aux. PKG. Pump Variable Displ. C.W. Rot. Closed Loop Dwg No. S13-43977 Rev. L Sub-Assembly Fixed Displ. Motor Dwg No. S23-12215 Rev. G Assembly - 30 CIPR Fixed Displ. Pump/Motor Dwg No. SD-01572 Rev. J Assy'-6.0, 7.25 & 8.0 CIPR Fixed Displacement Pump/Motor Dwg No. SD-01614 Rev. C Assembly - 24CIPR Fixed Displ. Motor Dwg No. SD-01630 Rev. U P30P/S V.V. Pump Less Controls, With or Without SAE-B or SAE-C Auxiliary Rear Mounting Pad, & With or Without Internal Pump Dwg No. SD-01631 Rev. M P24P/S V.V. Pump Less Controls, With or Without SAE-B or SAE-C Auxiliary Rear Mounting Pad, & With or Without Internal Pump Test Procedure No. TP-01917 Rev. ECN 28134 Test Procedure No. TP-01921 Rev. ECN 28830 Test Procedure No. TP-02060 Rev. ECN 27729 Test Procedure No. TP-02062 Rev. ECN 28090 Test Procedure No. TP-03030 Rev. ECN 28406 Test Procedure No. TP-03118 Rev. ECN 27735 Test Procedure No. TP-03353 Rev. ECN 27736 Test Procedure No. TP-03388 Rev. ECN 27733 Assembly Procedure No. AP-01990 Rev. ECN 28622 Assembly Procedure No. AP-02057 Rev. ECN 28494 Assembly Procedure No. AP-02059 Rev. ECN 28622 Assembly Procedure No. AP-02446 Rev. ECN 28494-B-02-19-13-HLK Assembly Procedure No. AP-03335 Rev. ECN 28494-A-02.2.18-HLK Assembly Procedure No. AP-03355 Rev. ECN 28790-D 07.16.13-BEN Assembly Procedure No. AP-03442 Rev. ECN 28790 C 07.16.13 BEN Assembly Procedure No. AP-03444 Rev. ECN 28494 C 02.19.13 HLK Engineering Lab Test Number R-3672 Document 031-91528-B ECN 26576 Denison Gold Cup Product Catalog HY28-2667-01/GC/NA,EU dated 1 Mar. 2010

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 18-HS1776585-PDA, dated 21/Aug/2018 remains valid until 20/Aug/2023 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.

**ABS Rules:**

Rules for Conditions of Classification, Part 1 - 2018 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2018 Steel Vessels 4-1-1/Table 6, 4-3-4/19.5, 4-6-1/7.3.1 (i), 4-6-1/7.3.2, 4-6-1/7.5.3;

**National Standards:**  
**International Standards:**  
**Government Authority:**  
**EUMED:**  
**Others:**

None

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	18-HS1776585-PDA	23-AUG-2018	20-AUG-2023

A handwritten signature in black ink, appearing to read 'James J. White', is located in the upper right corner of the main content area.

ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the 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.