



CPC ENGINEERING SPECIFICATION	
SECTION: CES 26-123	
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## GENERAL STORING & SHIPPING PROCEDURE FOR API 16D & API 6A PRODUCT

Rev	Reason of Change	Date	Prepared by	Reviewed by	Approved by	Status
0	Initial Issue	16-02-2024	PK	USR	JG	Released





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## GENERAL STORING & SHIPPING PROCEDURE FOR API 16D & API 6A PRODUCT

### **1. INTRODUCTION**

#### **1.1 Purpose**

The purpose of this procedure is to establish an information base applicable for the delivery and storage phases of the equipment manufactured by CPC. These phases involve storage, shipping, lifting, handling and preservation of the equipment.

#### **1.2 General**

Initial preservation shall be performed shortly after FAT/Final Inspection and before transportation.

#### **1.3 Safety**

This procedure describes handling of the equipment and minimum tonnage required for safe lifting of equipment. Only certified lifting gear shall be used. To avoid damage to personnel and equipment, the lifting procedure described shall be followed.

Personnel trained for handling of heavy equipment only shall be allowed to perform lifting operation. All other personnel shall be kept in a safe distance. Incase verbal warnings are not sufficient, then the surrounding area should be cordoned.

### **2. REFERENCE DOCUMENTS**

- a) API Spec 16D, "Control Systems for Drilling Well Control Equipment and Control Systems for Diverter Equipment"
- b) API Spec 6A, "Specification for Wellhead and Tree Equipment"



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### 3. HANDLING

#### 3.1 NECESSARY LIFTING GEAR

Capacity of the Lifting Gear and allied equipment used for lifting should be at least 25% more than the dry weight of the equipment.

**NOTE: None of these equipment's are supplied by CPC.**

### 4. STORAGE & SHIPPING

#### FOR API 16D PRODUCT (As per clause 16.1 of API 16D 3<sup>rd</sup> Edition)

##### 4.1 PROTECTION AND PRESERVATION:

4.1.1 Prior to shipment CPC should consult with the purchaser to properly prepare the equipment for shipment and storage. Preparations should take into consideration the intended method of transportation—land, sea, or air—as well as the length of time the equipment is not to be in service. Additionally, an MSDS sheet applicable to any fluid remaining in the equipment shall accompany the shipment.

**NOTE:** Prior to the shipment Packing/QAD will confirm that the equipment is fit for purpose and suitable for the environment to which it is exposed during transportation, handling, installation and operation

4.1.2 The painting and color of finished surfaces shall be done as per CES 26-130 unless specified on the purchase order.

4.1.3 All reasonable precautions shall be taken to prevent damage in transit to transparent surfaces, threads or service entries, and operating parts.

4.1.4 Exposed ports shall be plugged. If temporary fittings, plugs, or caps are installed in equipment, it is preferred that they be rated to the full rated working pressure of the circuit where they are installed. If this is not practical, covers (not pressure rated) may be used, and shall be of a different color than the pressure rated fittings. The control system shall have warnings posted on the equipment that the temporary fittings shall be removed prior to pressurizing the equipment. The temporary fittings shall be clearly identified with a tag stating that these fittings shall be removed prior to placing the equipment in service. The tag shall be of durable material that can withstand the environment and be securely fastened to the fitting.

4.1.5 If extended storage of units and assemblies is anticipated, the purchaser shall consult CPC for preservation measures to be employed.



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## 4.2 PACKING

- 4.2.1 All lifting points or instructions shall be conspicuously displayed to shippers and handlers.
- 4.2.2 For export shipment, units and assemblies shall be securely crated or mounted on skids so as to prevent damage and facilitate sling handling. This may be performed by the purchaser.
- 4.2.3 All enclosed electrical and electronic housings shall have desiccant (or alternative) protection for a minimum of four months storage from date of shipment.

## 4.3 IDENTIFICATION

- 4.3.1 Unit serial number shall be displayed on weatherproof material rigidly attached to the system.
- 4.3.2 If the unit is enclosed in sealed crating, the manufacturer's assembly or serial number shall be permanently painted on the exterior of the crate in addition to attachment on the system.

## FOR API 6A PRODUCT (As per Clause 13 of API 6A, 21<sup>st</sup> Edition

### 4.4. DRAINING AFTER TESTING

All equipment shall be drained and lubricated after testing and prior to storage or shipment.

### 4.5. CORROSION PROTECTION

Corrosion protection shall be applied to exposed (bare) metallic surfaces of steels with less than 15 % chromium on flange faces, weld bevel ends, exposed stems, and internal surfaces of the equipment using the manufacturer's documented requirements. Corrosion protection provided by a corrosion inhibitor shall resist runoff at temperatures less than 50 °C (125 °F).

**NOTE** Corrosion protection is not required on CRA surfaces.

### 4.6. SEALING-SURFACE PROTECTION

Exposed sealing surfaces and seals shall be protected from damage or deterioration for shipping.



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#### 4.7. ASSEMBLY AND MAINTENANCE INSTRUCTIONS

CPC shall furnish to the purchaser suitable drawings and instructions concerning field assembly and maintenance of wellhead and tree equipment, if requested.

#### 4.8. RING GASKETS

Ring gaskets shall be individually wrapped or boxed for shipment and storage. Ring gaskets with an outside diameter greater than 356 mm (14 in.) should be shipped and stored horizontally (flat).

#### 4.9. Age Control and Storage of Nonmetallic Seals

The following shall apply.

a) The manufacturer's written specified requirements for nonmetallic seals that are not assembled into

equipment shall include the following minimum provisions:

- age control;
- indoor storage;
- maximum temperature not to exceed 49 °C (120 °F);
- protected from direct natural light;
- stress conditions (see text below);
- stored away from contact with liquids;
- protected from ozone and radiographic damage.

b) Packaging and storage of nonmetallic seals shall not impose tensile or compressive stresses sufficient

to cause permanent deformation or other damage.

NOTE Recommendations are typically available from seal manufacturers. Where applicable, for a given seal

design, rings of large inside diameter and relatively small cross-section may be formed into three equal super





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imposed loops to avoid creasing or twisting, but it is not possible to achieve this condition by forming just two loops.

c) The manufacturer's written specified requirements for nonmetallic seals that are assembled into

equipment shall include a procedure to document the preservation of seals assembled in PSL 4 product

during storage until delivery.

