



|   |   |                           |
|---|---|---------------------------|
|  | <b>SARA SAE ENGINEERING SPECIFICATION</b> |                           |
|   | <b>Section: SES 26 – 856</b>              |                           |
|   | <b>Issue: “A”</b>                         | <b>Rev No: “1”</b>        |
|   | <b>Eff. Date: 20.09.22</b>                | <b>Page : Page 1 of 5</b> |

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

| Rev | Reason of Change                       | Date       | Prepared by | Reviewed by | Approved by | Status   |
|-----|--|------------|-------------|-------------|-------------|----------|
| 0   | Initial Issue                          | 07.10.2019 | SKG         | USR         | AS          | Released |
| 1   | Procedure amended as API 6A Addendum 3 | 20-09-2022 | NK          | USR         | JG          | Released |



|   |                                    |                    |
|---|------------------------------------|--------------------|
|  | SARA SAE ENGINEERING SPECIFICATION |                    |
|   | Section: SES 26 – 856              |                    |
|   | Issue: “A”                         | Rev No: “1”        |
|   | Eff. Date: 20.09.22                | Page : Page 2 of 5 |

## **GENERAL STORING & SHIPPING PROCEDURE FOR API 16D, API 6A & API 16A 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 SARA. 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”
- c) API Spec 16A, “Specification for Drill-through Equipment”





|   |                                    |                    |
|---|------------------------------------|--------------------|
|  | SARA SAE ENGINEERING SPECIFICATION |                    |
|   | Section: SES 26 – 856              |                    |
|   | Issue: “A”                         | Rev No: “1”        |
|   | Eff. Date: 20.09.22                | Page : Page 3 of 5 |

### 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 SARA SAE.

### 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 SARASAE 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 SES 26-602 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 Sarasae for preservation measures to be employed.



|   |   |                           |
|---|---|---------------------------|
|  | <b>SARA SAE ENGINEERING SPECIFICATION</b> |                           |
|   | <b>Section: SES 26 – 856</b>              |                           |
|   | <b>Issue: “A”</b>                         | <b>Rev No: “1”</b>        |
|   | <b>Eff. Date: 20.09.22</b>                | <b>Page : Page 4 of 5</b> |

## 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.





|   |   |                           |
|---|---|---------------------------|
|  | <b>SARA SAE ENGINEERING SPECIFICATION</b> |                           |
|   | <b>Section: SES 26 – 856</b>              |                           |
|   | <b>Issue: “A”</b>                         | <b>Rev No: “1”</b>        |
|   | <b>Eff. Date: 20.09.22</b>                | <b>Page : Page 5 of 5</b> |

#### **4.7. ASSEMBLY AND MAINTENANCE INSTRUCTIONS**

SARASAE 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).

### **FOR API 16A PRODUCT (As per clause 9 of API 16A, 4<sup>th</sup> Edition)**

#### **4.9 STORING FOR PERIODS GREATER THAN 30 DAYS**

##### **4.9.1 RUST PREVENTION**

Prior to storage, parts and equipment shall have exposed metallic surfaces protected with a rust preventative that will not become fluid at temperatures below 50 °C (125 °F).

##### **4.9.2 CONNECTION-SURFACE PROTECTION**

All connection faces and ring gasket grooves shall be protected with durable covers.

##### **4.9.3 ELASTOMERIC SEALS**

Elastomeric seals shall be stored in accordance with the SES 26-719 covers.

##### **4.9.4 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).

