

		SARA SAE ENGINEERING SPECIFICATION	
Section: SES 26 – 855			
Issue: “A”		Rev No: “2”	
Eff. Date: 03.11.2023		Page : Page 1 of 7	

APPLICATION / WITHDRAWAL OF API MONOGRAM OF API 16C PRODUCT

Rev	Reason of Change	Date	Prepared by	Reviewed by	Approved by	Status
1	Initial Issue (Separated from SES 26-705)	07.10.2019	SKG	USR	AS	Released
2	Procedure amended as per API 16C 3 rd Edition	03.11.23	SKG	USR	JG	Released



		SARA SAE ENGINEERING SPECIFICATION	
Section: SES 26 – 855		Issue: “A”	
Eff. Date: 03.11.2023		Rev No: “2”	
		Page : Page 2 of 7	

APPLICATION / WITHDRAWAL OF API MONOGRAM OF API 16 C PRODUCT

1.0 PURPOSE

To describe the requirements for marking of API monogrammed products in accordance with API 16C specification.

2.0 APPLICABILITY

The requirements imposed by this procedure are directive in nature to all Production, Manufacturing Engineering, Production Control, Design Engineering, and Quality Control personnel involved in the manufacture of products manufactured to API specifications.

3.0 REFERENCE DOCUMENTS

- 3.1 Sara Quality Assurance Manual
- 3.2 API Spec 16C, “Choke and Kill Equipment”
- 3.5 API Q1, “Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industries”

4.0. GENERAL

The API monogram shall be applied only to those products that are designed (When Design applicable) and manufactured in accordance with applicable API specifications when required by the customer and Sara Sales Order.

- 4.1. Products that do not conform to API specified requirements will not be monogrammed.
- 4.2. Only API Monogram approved Licensee shall apply the monogram and its designated license number to applicable monogramable newly manufactured products.
- 4.3. License(s) being facility specific, API monogram (during valid license period only) shall be applied at the approved site only.
- 4.4. Monogram may be applied at any appropriate time during product process but shall be removed, if the product is subsequently found out of conformance including rejection at the supplied location, in accordance with the process covered in Appendix(s) to this procedure.

Note: Alternative API Monogram marking procedures required to be adopted if any shall be in accordance with the details contained in the API Monogram Program alternative Marking of Products License Agreement, available on the API Monogram Program website. However as on approval of this procedure, at SARA SAE, we are not using the any alternate marking procedure.

- 4.5. Equipment manufactured in conformance with this specification shall be marked in conformance with the procedures and requirements of this section. Equipment manufactured in conformance with API 6A or API 16A shall be marked in conformance with the procedures and requirements of those specifications.



	SARA SAE ENGINEERING SPECIFICATION		
	Section: SES 26 – 855		
	Issue: “A”	Rev No: “2”	
	Eff. Date: 03.11.2023	Page :	Page 3 of 7

Markings on equipment manufactured under a different specification shall not be removed or otherwise altered on that equipment.

5.0

RESPONSIBILITY

- 5.1 Manufacturing Engineering is responsible for detailing marking requirements for monogrammed products on Process Routings in accordance with Design Engineering documentation.
- 5.2 Production is responsible for marking all monogrammed products in accordance with the Engineering drawing or according to marking given in API (refer API specs tables in appendix B for marking).
- 5.3 Quality Control is responsible for ensuring the API monogrammed products are properly marked in accordance with the Engineering documentation.
- 5.4 Director/ Manager QAD/MR will be responsible for release of application of API Monogram.

6.0

METHODS

- 6.1 Design Engineering drawings shall specify all marking requirements and identify location for monogramming final products according to the appropriate API Specifications.
- 6.2 Manufacturing Engineering shall describe all marking requirements and methods of applications of markings of the final products according to Design Engineering drawings.
- 6.3 Product marking shall be clear, legible, and visible without the use of magnification. Only capital letters shall be used unless otherwise stated on the drawing or product specification
- 6.4 Equipment shall be marked on the exterior name plate as specified in given in Appendix- B. The equipment shall be marked with US Customary (USC) units.
- 6.5 Permanent marking methods shall be “Low Stress” (dot, vibration, or rounded V). Conventional sharp V-stamping shall be permitted only in low-stress areas, such as name plate or at the outside diameter of the flange.
- 6.6 Marking required on a connector outside diameter that would be covered by clamps or other parts of the connector assembly shall be stamped in a visible location near the connector.
- 6.7 The marking shall include API Licenses number, manufacturer’s name and the date of manufacturing in conjunction with API Monogram.

6.7.1 Date of manufacturing shall be of 2 digits representing month & year e.g. 03-11 for March 2011 unless otherwise stipulated in the applicable API Spec including additional requirements of specifications/standards, if any, as applicable.

6.7.2 Design Engineering shall specifically add note to clarify for the application of the additional API product specification(s) and/or standard(s) marking requirements, to be marked on the product, if applicable.



	SARA SAE ENGINEERING SPECIFICATION	
	Section: SES 26 – 855	
	Issue: “A”	Rev No: “2”
	Eff. Date: 03.11.2023	Page : Page 4 of 7

6.8 Production shall apply all appropriate markings according to the information contained on the Process Routing in conformity with the details as mentioned on the relevant drawing.

6.9 Quality Control shall apply the API Monogram in accordance with the Design Engineering drawings.

6.10 Manager Quality Control/MR shall be responsible for overseeing the removal of the API monogram if the product is subsequently found to be in nonconformance with API specified requirements as per procedure in appendix A attached.

6.11 When hardness tests are required, the actual value of the hardness test shall be stamped on the part adjacent to the test location.





SARA SAE ENGINEERING SPECIFICATION	
Section: SES 26 – 855	
Issue: “A”	Rev No: “2”
Eff. Date: 03.11.2023	Page : Page 5 of 7

APPENDIX A



SARA SAE ENGINEERING SPECIFICATION		
Section: SES 26 – 855		
Issue: “A”	Rev No: “2”	
Eff. Date: 03.11.2023	Page :	Page 6 of 7

APPENDIX B

(API Based Marking details of Products)

Reference API 16C Table 21—Metallic Marking Requirements

Marking	Equipment						
	Articulated Lines, Swivel Unions, and Union Connectors	Rigid Choke and Kill Piping and Buffer Chamber	Flexible Choke and Kill Lines	Well Control Choke	Well Control Choke Actuators	Choke Controls	Choke and Kill Manifold Assembly
“API 16C”	OD	OD	Termination OD	Nameplat e ³	Nameplate	Nameplate	Nameplate
Assembly serial number	Nameplate and band	Nameplate or OD	Termination OD	Body and nameplate	Nameplate	Nameplate	Nameplate
Connector size	OD	OD	Connector OD	Connector OD	N/A	N/A	N/A
Date of manufacture (month and year)	OD	OD	Termination OD	Body or nameplate	Body or nameplate	Nameplate	Nameplate
Flow direction	N/A	N/A	N/A	Body	N/A	N/A	N/A
Mfg. name or mark	OD	OD	Termination OD	Nameplate	Nameplate	Nameplate	Nameplate
FSL	N/A	N/A	Termination OD	N/A	N/A	N/A	N/A
Rated working pressure	Nameplate and band	OD	Termination OD	Nameplate and termination OD	N/A	N/A	Nameplate
Ring gasket type and number	OD	OD	Connector OD	Connector OD	N/A	N/A	N/A
Schedule/grade	OD	OD	N/A	N/A	N/A	N/A	N/A
Safety clamp	N/A	N/A	Termination OD ^{#3}	N/A	N/A	N/A	N/A
Size	OD	OD	Termination OD	Nameplate	Nameplate	N/A	N/A
Thread size	N/A	N/A	N/A	Adjacent to thread	N/A	N/A	N/A
Temperature rating	OD	OD	Termination OD	Body and nameplate	Body and nameplate	N/A	Nameplate
Orifice size	N/A	N/A	N/A	Nameplate	N/A	N/A	N/A

NOTE 1 See Table 26 for color coding of articulated lines, swivel unions, and unions.

NOTE 2 Flex loops are considered either rigid choke and kill pipe or flexible pipe, as applicable.

a Nameplate marking requirements are satisfied by body marking.

b Safety clamp location notation shall be within 3 ft (0.9 m) of the end termination or, if applicable, the bend stiffener.



	SARA SAE ENGINEERING SPECIFICATION	
	Section: SES 26 – 855	
	Issue: “A”	Rev No: “2”
	Eff. Date: 03.11.2023	Page: Page 7 of 7

Articulated lines

Including Table 21 Articulated lines shall be provided with color coding as detailed in Table 26 of API 16C. While components may be painted, a portion of the color coding shall be retained and shall be visible during application.

Ref API 16C Table 26—Color Coding of Articulated Choke and Kill Line Components

Pressure Rating (psi)	Service	Color
6,000	Standard	Silver
10,000	Standard	Black
15,000	Standard	Red
20,000	Standard	Light blue
10,000	Sour Gas	Olive green
15,000	Sour Gas	Olive green

Each individual pressure-containing part of the articulated line assembly shall be marked with the part number and material batch code. Each subassembly in the articulated line shall be identified with a stainless-steel nameplate or band that includes the part number, pressure rating, and serial number and sour service (if applicable). Each union nut shall be marked with the size, figure number, manufacturer, and rated working pressure.

The serial numbers on each subassembly shall be traceable to all material test reports, inspection data, and manufacturer’s factory pressure tests related to the subassembly. Serial numbers shall also be traceable to inspection documentation. Articulated lines shall be marked with the information at the locations detailed in Table 21

