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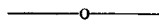
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Std 11AX  
First Edition  
January 1961

**API SPECIFICATION**  
for  
**SUBSURFACE PUMPS AND FITTINGS**



**AMERICAN PETROLEUM INSTITUTE**  
New York, N. Y.



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**Note:**

This is the first edition of this specification which was adopted 1960 and subsequently approved by letter ballot.

Although portions of this specification have been lifted from Std 11A, there are in many instances a definite departure, and the committee realizes that a transition period is needed for manufacturers to convert from one standard to the other. For a period of 18 months from the date of issuance of this specification both Std 11A and 11AX will be in effect. At the end of this transition period (July 1962) Std 11A will be withdrawn but will remain in print as a reference manual for that material not covered by Std 11AX.

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## API SPECIFICATION FOR SUBSURFACE PUMPS AND FITTINGS

### Foreword

a. This specification is under the jurisdiction of the Committee on Standardization of Production Equipment of the American Petroleum Institute.

b. Other standards under the jurisdiction of this committee include the following:

#### Std 11A: Oil-Well Pumps

Covers dimensional standards for component parts of oil-well reciprocating pumps. Includes also recommended practice for care and use of oil-well pumps.

#### Std 11B: Specification for Sucker Rods

Covers dimensional requirements on sucker rods, couplings, sub-couplings, stipulations on gages, gaging practice, composition of two grades of sucker rods, and requirements on packaging.

#### RP 11BR: Recommended Practice for Care and Handling of Sucker Rods

Covers recommendations on storage, transportation, and running and pulling sucker rods.

#### Std 11D: Specification for Miscellaneous Production Equipment

Covers polished rods, polished-rod liners, stuffing boxes, pumping tees, pull rods, screen-pipe openings, and slotted pipe openings.

#### Std 11E: Specification for Pumping Units

Covers designs and ratings of beam-type pumping-unit components.

#### RP 11G: Recommended Practice for Installation and Lubrication of Pumping Units

Covers installation of beam-type pumping units and lubrication of pumping-unit reducers.

#### RP 11H: Recommended Practice for Electrical Surface Pumping Equipment

Covers information on installation, maintenance, and operation of electrical surface oil-well pumping equipment.

#### RP 11J: Recommended Practice for Placement of Electrical Equipment on Production Leases

Classifies areas on producing leases for safe installation of electrical equipment under provisions of the National Electrical Code.

#### Std 7B-11C: Internal-Combustion Engines and Unit-Type Radiator Coolers for Oil-Field Service

Covers methods for determining maximum brake horsepower and fuel-consumption rates of internal-combustion bare engines and power units; provides for the manufacturer's maximum-horsepower rating of such equipment for specific service applications; also methods for testing and rating radiator-type cooling units. Included also are recommended dimensions for reverse gear clutch and engine flywheel connections, exhaust and intake opening connections, and a recommended practice for determining engine output by means of intake-manifold vacuum determinations.

#### RP 7C-11F: Recommended Practice for Installation, Maintenance, and Operation of Internal-Combustion Engines

Covers field practice designed to promote efficient and safe use of internal-combustion engines in oil-field service.

## SECTION I

### SCOPE

1. This specification covers nine basic subsurface rod type pumps in four commonly used bore sizes for use in 2 $\frac{3}{8}$  in. and 2 $\frac{7}{8}$  in. tubing. Sufficient dimensional requirements are provided to assure interchangeability of all component parts; however, details of design and material are not specified.

2. Nothing contained in this specification is to be construed as granting any right, by implication or otherwise, for manufacture, sale, or use in connection with any method, apparatus, or product covered by

letters patent, nor as insuring anyone against liability for infringement of letters patent. This specification is for the convenience of purchasers and manufacturers in ordering and producing subsurface pumps. It is not intended to inhibit purchasers and producers from purchasing and producing subsurface pumps meeting specifications other than those contained herein, nor is it intended in any way to inhibit purchasers from purchasing subsurface pumps from companies not authorized to use the API monogram.