
Specification for Subsurface Sucker Rod Pumps and Fittings

**API SPECIFICATION IIAX (SPEC IIAX)
EIGHTH EDITION, MAY 30, 1986**

American Petroleum Institute
Production Department
211 N. Ervay, Suite 1700
Dallas, TX 75201-3688



American Petroleum Institute

Users of this publication should become familiar with its scope and content. This publication is intended to supplement rather than replace individual engineering judgment.

OFFICIAL PUBLICATION



REG U.S. PATENT OFFICE

Copyright © 1986 American Petroleum Institute
Washington, D.C. 20005

TABLE OF CONTENTS

	Page
Foreword	2
Sect. I: Scope	3
Sect. II: Pump Designation	4
Sect. III: Standard Pumps	5
Sect. IV: Component Parts	17
Sect. V: Threaded Connections	48
Appendix A: List of Authorized Manufacturers	58
Appendix B: Use of API Monogram	59

Foreword:

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

b. **NOTE:** Conversions of English units to International System (SI) metric units are provided throughout the text of this specification in parentheses, e.g. 6 in. (152.4 mm). SI equivalents have also been included in all tables. English units are in all cases preferential and shall be the standard in this specification. Products are to be marked in the units in which ordered unless there is an agreement to the contrary between the purchaser and the manufacturer. The factors used for conversion of English units to SI units were taken from API Publication 2564, and are listed below:

1 inch (in.)	= 25.4 millimetres (mm) exactly
1 foot (ft.)	= 0.3048 metres (m) exactly

Note:

This edition supersedes the 7th edition dated June 1979. It includes changes adopted at the meeting as reported in Circ PS 1768.

Requests for permission to reproduce or translate all or any part of the material published herein should be addressed to the Director, American Petroleum Institute, Production Department, 211 North Ervay, Suite 1700, Dallas, Texas 75201.

SECTION I

SCOPE

1.1 This specification covers rod pumps and tubing pumps in commonly used bore sizes. Sufficient dimensional requirements are provided to assure interchangeability of all component parts; however, details of design and material are not specified.

(a) American Petroleum Institute (API) Specifications are published as aids to the procurement of standardized equipment and materials, as well as instructions to manufacturers of equipment or materials covered by an API Specification. These Specifications are not intended to obviate the need for sound engineering, nor to inhibit in any way anyone from purchasing or producing products to other specifications.

(b) The formulation and publication of API Specifications and the API monogram program is not intended in any way to inhibit the purchase of products from companies not licensed to use the API monogram.

(c) Nothing contained in any API Specifications is to be construed as granting any right, by implication or otherwise, for the 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.

(d) API Specifications may be used by anyone desiring to do so, and diligent effort has been made by the Institute to assure the accuracy and reliability of the data contained therein. However, the Institute makes no representation, warranty, or guarantee in connection with the publication of any API Specification and hereby expressly disclaims any liability or responsibility for loss or damage resulting from their use, for any violation of any federal, state, or municipal regulation with which an API Specification may conflict, or for the infringement of any patent resulting from the use of an API Specification.

(e) Any manufacturer producing equipment or materials represented as conforming with an API Specification is responsible for complying with all the provisions of that Specification. The American Petroleum Institute does not represent, warrant or guarantee that such products do in fact conform to the applicable, API standard or specification.