

# AVIATION FUELLING HOSE AND HOSE ASSEMBLIES

API/IP STANDARD 1529

Sixth edition  
May 2005



**Helping You  
Get The Job  
Done Right.<sup>SM</sup>**



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# FOREWORD

This sixth edition of API/IP Standard 1529 has been produced jointly by the American Petroleum Institute (API) Aviation Technical Services Subcommittee and the Energy Institute (EI)<sup>1</sup> Aviation Committee, with technical feedback from other industry stakeholders. It replaces the fifth edition published by the API and the provisions of the previous edition dating from 1998 should therefore be disregarded.

API/IP standards are published as an aid to procurement of standardised equipment and materials. These standards are not intended to inhibit purchasers or producers from purchasing or producing products made to specifications other than those of API/IP. An alternative and widely used standard for aviation hoses is the European Standard EN 1361 *Rubber hoses and hose assemblies for aviation fuel handling – Specification*.

Purchasers should be aware of the difference in requirements for Type E hose between this Standard and EN 1361. Type E hose in EN 1361 is an electrically bonded hose which calls for at least two low-resistance electrically conductive wires to be present within the materials of construction in addition to a conductive cover. Type E hose has been reintroduced to this sixth edition of API/IP 1529 with the metallic conducting helical support embedded in a conductive layer but it is not a requirement to have the two additional electrically conductive wires.

For the purpose of this publication the definitions given in Annex A apply irrespective of any other meaning the words may have in other connections.

The API and the EI are not undertaking to meet the duties of employers to warn and equip their employees, and others exposed, concerning health and safety risks and precautions, nor undertaking their obligations under local and regional laws and regulations.

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It is hoped and anticipated that this publication will assist those involved in aviation fuel handling at airports. Every effort has been made by the American Petroleum Institute and the Energy Institute to assure the accuracy and reliability of the data contained in this publication; however, API and EI make no representation, warranty, or guarantee in connection with this publication and hereby expressly disclaim any liability or responsibility for loss or damage resulting from its use or for the violation of any local or regional laws or regulations with which this publication may conflict.

Suggested revisions are invited and should be submitted to the Director of Standards, American Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005, or the Technical Department, Energy Institute, 61 New Cavendish Street, London, W1G 7AR.

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<sup>1</sup> Formerly the Institute of Petroleum. IP is a trade mark of the Energy Institute.



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# 1

## INTRODUCTION

### 1.1 SCOPE

This standard addresses performance requirements and manufacturer's test procedures for aircraft fuelling hose, hose couplings and hose assemblies suitable for a broad range of aviation fuel servicing equipment, including fuellers and hydrant servicers. The hoses to which this standard is applicable must be capable of handling the full spectrum of aviation fuels as specified in ASTM and UK Defence Standards. The following types of aviation fuelling hoses are not within the purview of this standard (also see section 2.4.1):

- Fully collapsible.
- Type A hoses.
- Type B hoses.

The specifications of this standard are intended for the convenience of both manufacturers and users. Users and manufacturers are not prohibited from purchasing or producing hoses that conform to other standards. The user should refer to the Rubber Manufacturer's Association *Hose Handbook*, and other specifications.

Each purchaser should conduct test verifications

independent of any tests or inspections performed by the hose manufacturer. Such user tests should be performed in accordance with this standard.

### 1.2 RETROACTIVITY

For a hose assembly to be represented and labelled as meeting API/IP Standard 1529 specifications, it has to comply fully with the requirements of this sixth edition. If a hose assembly has qualified to the fifth edition of API Bulletin 1529, it must conform to the specifications of the sixth edition within six months to retain qualification.

### 1.3 METRICATION

Customary units have been converted to SI units wherever practicable and rounded off. It should be noted, however, that hoses and couplings constructed to SI units may be incompatible with hoses and couplings constructed to customary units.

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