

INTERNATIONAL STANDARD

ISO
10419

First edition
1993-08-01

Petroleum and natural gas industries – Drilling and production equipment – Installation, maintenance and repair of surface safety valves and underwater safety valves offshore

*Industries du pétrole et du gaz naturel – Équipement de forage et de
production – Installation, maintenance et réparation en mer des vannes de
sécurité de surface et des vannes de sécurité sous-marines*



Reference number
ISO 10419:1993(E)
AVA Documents
Document Sharing Hub

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10419 was prepared by the American Petroleum Institute (API) (as RP 14H, 3rd edition) and was adopted, under a special "fast-track procedure", by Technical Committee ISO/TC 67, *Materials and equipment for petroleum and natural gas industries*, in parallel with its approval by the ISO member bodies.

© ISO 1993

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Introduction

International Standard ISO 10419:1993 reproduces the content of API RP 14H, 3rd edition, 1991. ISO, in endorsing this API document, recognizes that in certain respects the latter does not comply with all current ISO rules on the presentation and content of an International Standard. Therefore, the relevant technical body, within ISO/TC 67, will review ISO 10419:1993 and reissue it, when practicable, in a form complying with these rules.

This International Standard is not intended to obviate the need for sound engineering judgement as to when and where this International Standard should be utilized and users should be aware that additional or differing requirements may be needed to meet the needs for the particular service intended.

Standards referenced herein may be replaced by other international or national standards that can be shown to meet or exceed the requirements of the referenced standards.

This page intentionally left blank

Petroleum and natural gas industries – Drilling and production equipment – Installation, maintenance and repair of surface safety valves and underwater safety valves offshore

1 Scope

This International Standard provides guidance for inspecting, installing, operating, maintaining and repairing surface safety valves and underwater safety valves for offshore applications.

2 Requirements

Requirements are specified in:

"API Recommended Practice 14H (RP 14H), Third Edition, August 1, 1991, *Recommended Practice for Installation, Maintenance and Repair of Surface Safety Valves and Underwater Safety Valves Offshore*",

which is adopted as ISO 10419.

For the purposes of international standardization, however, modifications shall apply to specific clauses and paragraphs of publication API RP 14H. These modifications are outlined below.

NOTE – A wavy line in the margin indicates the location of a modification to the text of the API document.

Page 2

TABLE OF CONTENTS

Appendix A: To be deleted.

Page 3

Information given in the POLICY is relevant to the API publication only.

Page 4

Information given in paragraphs c, d, e and in the NOTES is relevant to the API publication only.

The conversion of English units shall be made in accordance with ISO 31-3. The content of column two (right-hand side of page 3) shall read as follows:

LENGTH	1 inch (in)	= 25,4 mm (exactly)
PRESSURE	1 pound-force per square inch (lbf/in ²)	= 6 894,757 Pa
	NOTE 1 bar = 10 ⁵ Pa	
STRENGTH OR STRESS	1 pound-force per square inch (lbf/in ²)	= 6 894,757 Pa
IMPACT ENERGY	1 foot-pound force (ft·lbf)	= 1,355 818 J
TORQUE	1 foot-pound force (ft·lbf)	= 1,355 818 N·m
TEMPERATURE	The following formula was used to convert degrees Fahrenheit (°F) to degrees Celsius (°C): $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$	
VOLUME	1 cubic foot	= 0,028 316 8 m ³ or 28,316 8 dm ³
	1 gal (US)	= 0,003 785 4 m ³ or 3,785 4 dm ³
	1 barrel (US)	= 0,158 987 m ³ or 158,987 dm ³
MASS	1 pound (lb)	= 0,453 592 37 kg (exactly)
FORCE	1 pound-force (lbf)	= 4,448 222 N

FLOW RATE	1 barrel/day	= 0,158 987 m ³ /day
	1 cubic foot per minute (ft ³ /min)	= 0,028 316 85 m ³ /min or 40,776 192 m ³ /day

Page 7

Subclause 5.1, item b (3)

Second sentence shall read:

"If sustained liquid flow exceeds 0,4 dm³/min or gas flow exceeds 424,75 dm³/min (611,6 m³/day), during the pressure holding test, the SSV should be repaired or replaced."

Subclause 5.2, item b (2)

Second sentence shall read:

"If the absolute pressure buildup in the confine line segment downstream of the USV is in excess of that which represents a flow rate of 0,4 dm³/min (0,576 m³/day) of liquid or 424,75 dm³/min (611,6 m³/day) of gas, the USV should be repaired or replaced."

Delete the third sentence starting: "An example...", up to "Appendix A"

Page 13

Delete Appendix A.

Recommended Practice for Installation, Maintenance and Repair of Surface Safety Valves and Underwater Safety Valves Offshore

API RECOMMENDED PRACTICE 14H (RP 14H)
THIRD EDITION, AUGUST 1, 1991

American Petroleum Institute
1220 L Street, Northwest
Washington, DC 20005



This page intentionally left blank