ISO 12917-2:2002-09 (E)

Petroleum and liquid petroleum products - Calibration of horizontal cylindrical tanks - Part 2: Internal electro-optical di stance-ranging method

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Precautions 2

5 Equipment 2
5.1 Electro-optical distance-ranging instrument 2
5.2 Instrument mounting 2
5.3 Laser-beam emitter 2
5.4 Stadia 3
5.5 Auxiliary equipment 3

6 General considerations 3

7 EODR instrument set up within the tank 3

8 Selection of target points 4
8.1 Introduction 4
8.2 Location of target points -- General principle 5
8.3 Cylindrical courses 5
8.4 Heads 5

9 Procedure for calibration 5

10 Tolerances of reference target points 5
10.1 Distance verification 5
10.2 Verification of horizontal and vertical angles 6

11 Additional measurements 6
11.1 Reference-height determination and reference-point position 6
11.2 Data 7
11.3 Drawings 7

12 Calculation and development of capacity tables 7

Annex A (normative) Determination of the limiting angle of incidence 8

Annex B (informative) Numerical example 9