



SLOVENSKI STANDARD

SIST EN 144-1:1996

01-april-1996

Oprema za varovanje dihal - Ventili za plinske jeklenke - Navoji za priključke

Respiratory protective devices - Gas cylinder valves - Thread connection for insert connector

Atemschutzgeräte - Gasflaschenventile - Gewindeverbindung am Einschraubstutzen

Appareils de protection respiratoire - Robinet de bouteille - Raccord de queue fileté

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Ta slovenski standard je istoveten z: **EN 144-1:1991**

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ICS:

13.340.30 Varovalne dihalne naprave Respiratory protective devices

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en

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EUROPEAN STANDARD

EN 144-1:1991

NORME EUROPEENNE

EUROPAISCHE NORM

May 1991

UDC: 614.894:621.646.2:621.642.17:621.882.082

Descriptors: Personal protective equipment, respiratory protective devices, gas cylinders, cocks, threads fittings, screw threads, dimensions

English version

Respiratory protective devices - Gas cylinder valves - Thread connection for insert connector

Appareils de protection respiratoire - Atemschutzgeräte - Gasflaschenventile
 Robinet de bouteille - Raccord de queue - Gewindeverbindung am
 fileté Einschraubstutzen

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
 Comité Européen de Normalisation
 Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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FOREWORD

This European Standard has been drawn up by CEN/TC 79 "Respiratory protective devices", the Secretariat of which is held by DIN.

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

In recognition of the very high number of cylinders throughout Europe using threads of existing national design and the high costs that would be caused by the unnecessary early replacement of these, it is acknowledged that a 15 year transitional period will be required to phase in cylinders using the thread described in this standard. During the ensuing period cylinders may be supplied with threads to the existing national design or to the standard described herein.

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1 Scope

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This European Standard applies to the connection between a gas cylinder valve and a gas cylinder for respiratory protective devices.

It specifies the dimensions and tolerances for thread connections which shall be used for respiratory protective devices.



2 Connection on insert connector

All dimensions are given in millimeter.

2.1 Connection with parallel thread M 18 x 1,5

where the design of the valve makes it impossible to fit a pressure limiting device, the venting groove can be replaced by a venting hole.

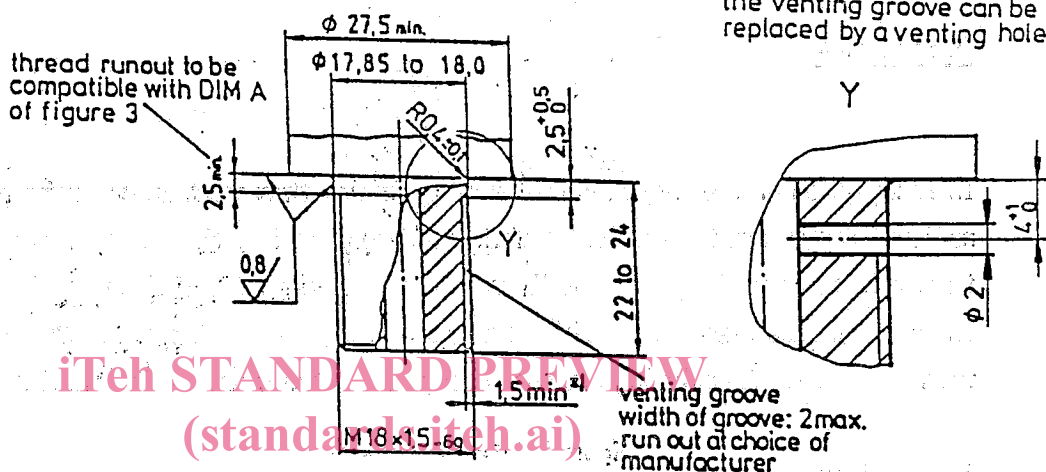


Figure 1 - Insert connector

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⁴max. groove depth 1,0 below root dia. of thread

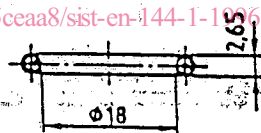


Figure 2 - O-Ring

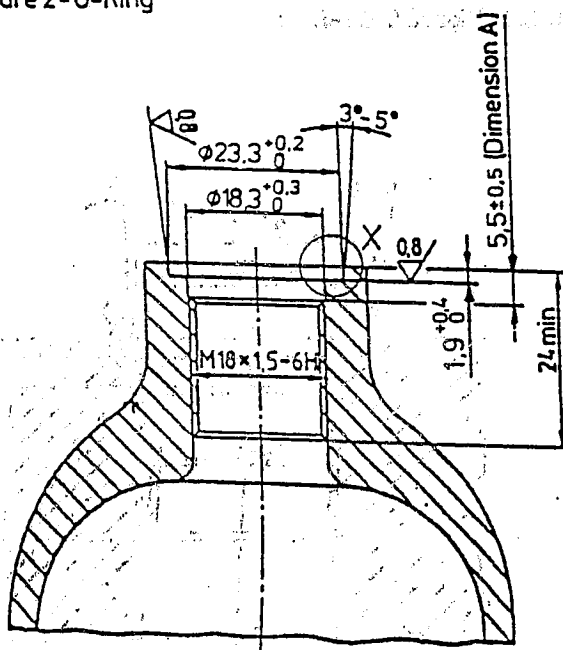
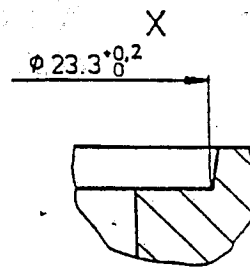
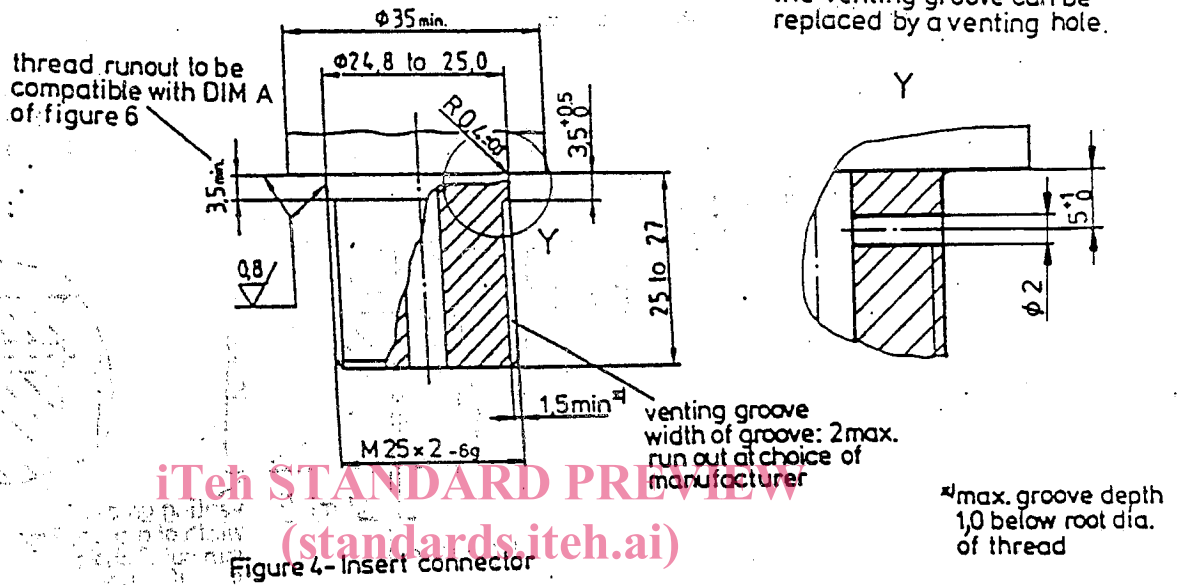


Figure 3 - Neck of cylinder



2.2 Connection with parallel thread M 25 x 2

where the design of the valve makes it impossible to fit a pressure limiting device, the venting groove can be replaced by a venting hole.



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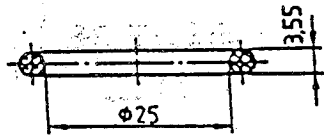


Figure 5 - O-Ring

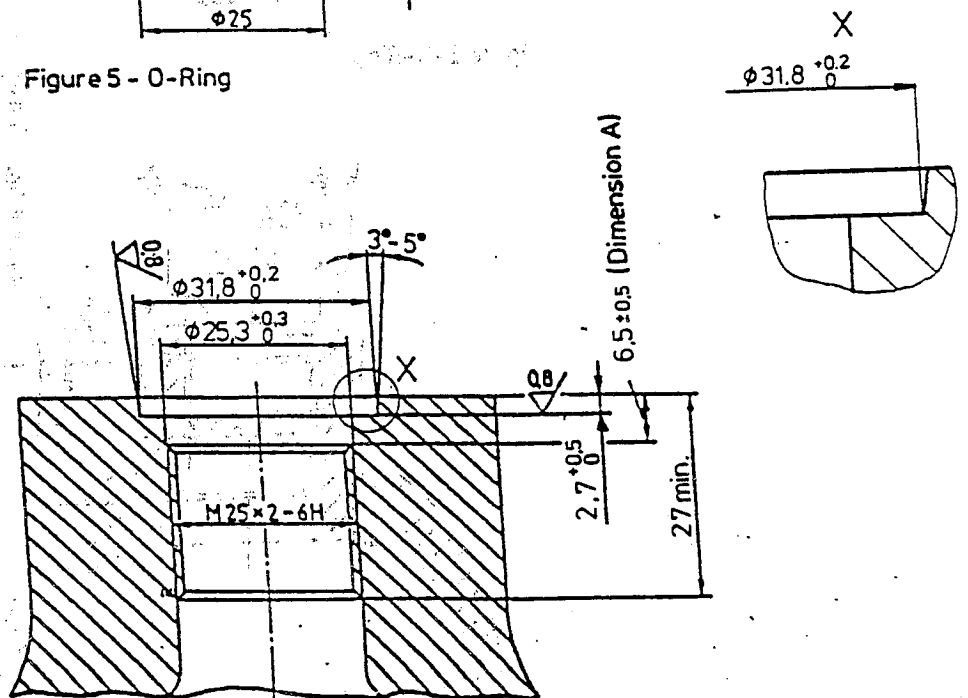


Figure 6-Neck of cylinder

2.3 Connection with conical thread E 17 con

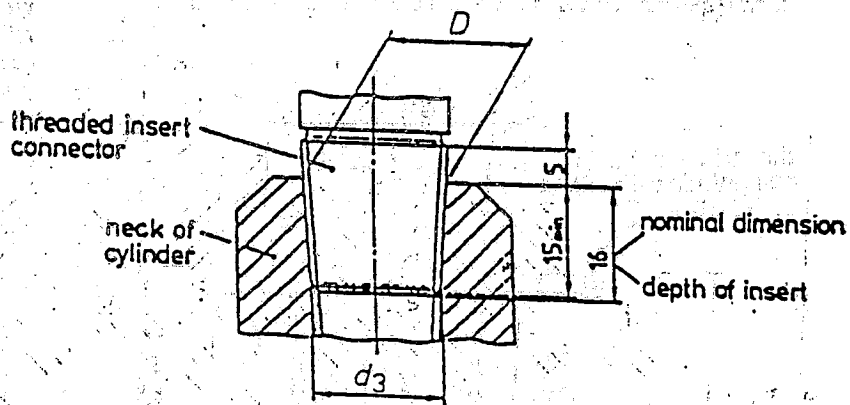


Figure 7 - Insert connector with neck of cylinder

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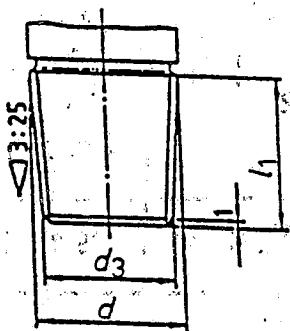


Figure 8 - Insert connector

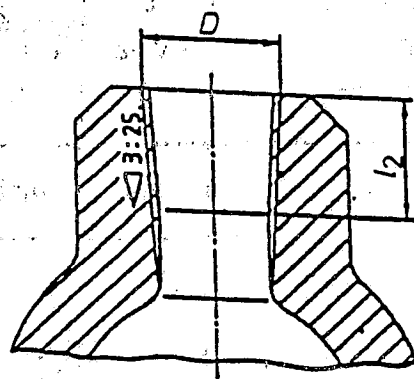


Figure 9 - Neck of cylinder

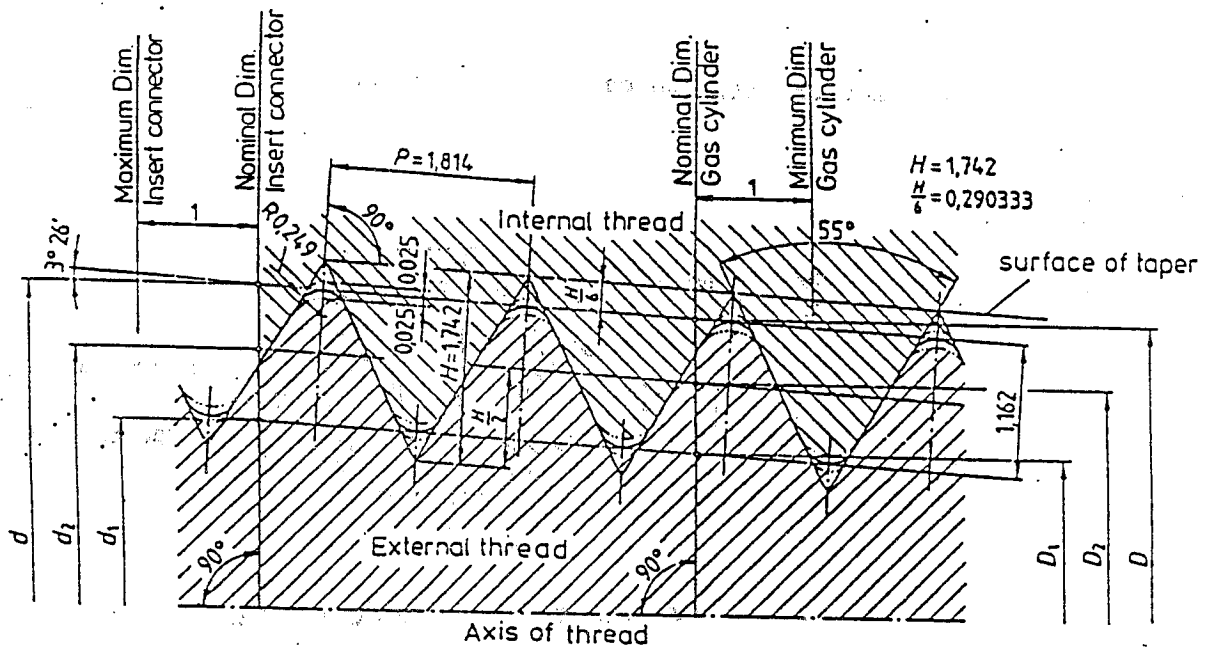


Figure 10 - Connection with conical thread E 17 con

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Table 1 - Thread dimensions

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Gas cylinder valve	External thread (insert connector)					Internal thread (gas cylinder)			
	Major diameter	Pitch diameter	Minor diameter	Major diameter		Major diameter	Pitch diameter	Minor diameter	
Dimensions of thread	d	d ₂	d ₁	d ₃	l ₁	D	D ₂	D ₁	l ₂
Nominal dimension	+ 0,12	+ 0,12	+ 0,12	+ 0,12		0	0	0	min.
E 17.con	19,8	18,638	17,476	17,4	21	19,2	18,038	16,878	17

Thread: Right-hand thread, taper 3 : 25, 14 turns of thread on 25,4 mm, below 90° cut to surface of taper