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**INTERNATIONAL STANDARD**



**2536**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## **Unplasticized polyvinyl chloride (PVC) pressure pipes and fittings, metric series — Dimensions of flanges**

*Tubes et raccords sous pression en polychlorure de vinyle (PVC) non plastifié, série métrique — Dimensions des brides*

First edition — 1974-04-01

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[ISO 2536:1974](https://standards.iteh.ai/catalog/standards/sist/b1219ba5-bf86-4e11-9dbd-be7fb187afb1/iso-2536-1974)

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**Descriptors** : plastic pipes, pipe joints, pipe fittings, polyvinyl chloride, pipe flanges, dimensions.

Price based on 2 pages

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2536 was drawn up by Technical Committee ISO/TC 138, *Plastics pipes and fittings for the transport of fluids*, and circulated to the Member Bodies in September 1971.

It has been approved by the Member Bodies of the following countries :

|                     |             |                       |
|---------------------|-------------|-----------------------|
| Australia           | Ireland     | Romania               |
| Austria             | Israel      | South Africa, Rep. of |
| Belgium             | Italy       | Spain                 |
| Czechoslovakia      | Japan       | Sweden                |
| Denmark             | Netherlands | Switzerland           |
| Egypt, Arab Rep. of | New Zealand | Turkey                |
| Finland             | Norway      | U.S.S.R.              |
| Germany             | Poland      |                       |
| India               | Portugal    |                       |

The Member Body of the following country expressed disapproval of the document on technical grounds :

France

# Unplasticized polyvinyl chloride (PVC) pressure pipes and fittings, metric series – Dimensions of flanges

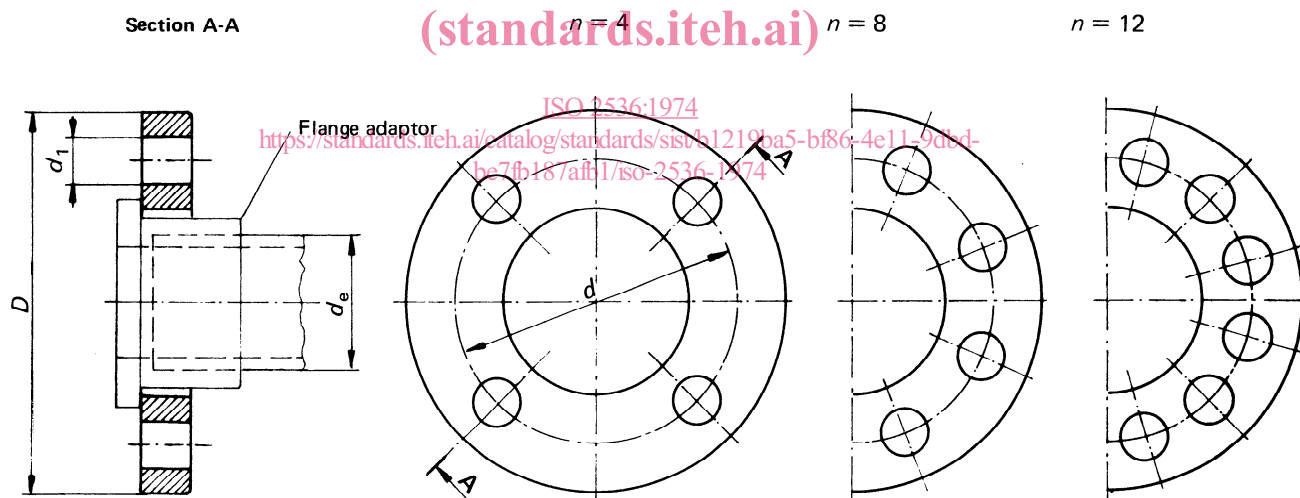
## 1 SCOPE

This International Standard specifies the principal dimensions of loose backing flanges for use with solvent-welded flange adaptors<sup>1)</sup> for polyvinyl chloride (PVC) metric series pressure pipes and fittings.

## 2 FIELD OF APPLICATION

This International Standard applies to flanges for pipe sizes from 16 to 315 mm outside diameter and for nominal pressures up to 1 MPa (= 10 bar).

## 3 SYMBOLS



$d_e$  = outside diameter of pipe

$D$  = outside diameter of flange

$d$  = pitch circle diameter of bolt holes

$d_1$  = diameter of bolt holes

$n$  = number of bolt holes

1) The bore dimensions of the loose backing flanges and of the adaptors will be the subject of a future International Standard.

4 PRINCIPAL DIMENSIONS

Dimensions in millimetres

| Outside diameter<br>of pipe<br>$d_e^{1)}$ | Dimensions of flange <sup>2)</sup> |     |            |       |                         |                  |
|---|------------------------------------|-----|------------|-------|-------------------------|------------------|
|   | $D$                                | $d$ | $d_1^{3)}$ | $n$   | Screw thread<br>of bolt | DN <sup>4)</sup> |
| 16  | 90                                 | 60  | 14         | 4     | M12                     | 10               |
| 20  | 95                                 | 65  | 14         | 4     | M12                     | 15               |
| 25  | 105                                | 75  | 14         | 4     | M12                     | 20               |
| 32  | 115                                | 85  | 14         | 4     | M12                     | 25               |
| 40  | 140                                | 100 | 18         | 4     | M16                     | 32               |
| 50  | 150                                | 110 | 18         | 4     | M16                     | 40               |
| 63  | 165                                | 125 | 18         | 4     | M16                     | 50               |
| 75  | 185                                | 145 | 18         | 4     | M16                     | 65               |
| 90  | 200                                | 160 | 18         | (4) 8 | M16                     | 80               |
| 110                                       | 220                                | 180 | 18         | 8     | M16                     | 100              |
| 125                                       | 250                                | 210 | 18         | 8     | M16                     | 125              |
| 140                                       | 250                                | 210 | 18         | 8     | M16                     | 125              |
| 160                                       | 285                                | 240 | 22         | 8     | M20                     | 150              |
| 180                                       | 315                                | 270 | 22         | 8     | M20                     | 175              |
| 200                                       | 315                                | 270 | 22         | 8     | M20                     | 175              |
| 225                                       | 340                                | 295 | 22         | 8     | M20                     | 200              |
| 250                                       | 370                                | 325 | 22         | 8     | M20                     | 225              |
| 280                                       | 395                                | 350 | 22         | 12    | M20                     | 250              |
| 315                                       | 445                                | 400 | 22         | 12    | M20                     | 300              |

1) In accordance with ISO/R 161, *Pipes of plastics materials for the transport of fluids (Outside diameters and nominal pressures) – Part I : Metric series.*

2) Outside diameters, pitch circle diameters and bolt holes are in accordance with ISO/R 2084, *Pipeline flanges for general use – Mating dimensions.*

3) In accordance with ISO/R 273, *Clearance holes for metric bolts.*

4) This refers to the nominal diameters (DN) of pipes given in ISO/R 2084.