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# INTERNATIONAL STANDARD



# 3284

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

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## **Continuous mechanical handling equipment for loose bulk materials — Dimensions of bends for use in pneumatic handling**

*Engins de manutention continue pour produits en vrac — Dimensions des coudes pour la manutention pneumatique*

**First edition — 1974-12-15**

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## 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 3284 was drawn up by Technical Committee ISO/TC 101, *Continuous mechanical handling equipment*, and circulated to the Member Bodies in November 1973.

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

Australia	Germany	Spain
Belgium	India	Sweden
Bulgaria	Ireland	Thailand
Czechoslovakia	Italy	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
Finland	Poland	U.S.S.R.
France	South Africa, Rep. of	Yugoslavia

No Member Body expressed disapproval of the document.

# Continuous mechanical handling equipment for loose bulk materials — Dimensions of bends for use in pneumatic handling

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of bends for use in pneumatic handling for loose bulk materials, in three series : light, moderate and heavy.

## 2 SYMBOLS

$D$  = Inside diameter

$R$  = Mean radius of curve

$D_1$  = Outside diameter

$L$  = Length of straight sleeve

## 3 DIMENSIONS FOR LIGHT DUTY SERVICE

Dimensions in millimetres

$D$	$D_1$	Small curve <sup>1)</sup>	Intermediate curve	Large curve
		$R$	$R$	$R$
<u>66</u>	<u>70</u>	160	500	} 1 500
72,1	76,1	175	500	
<u>84,9</u>	<u>88,9</u>	207,5	500	
96,4	101,6	235	750	} 2 000
<u>102,8</u>	<u>108</u>	252,5	750	
109,1	114,3	270	750	
<u>127,2</u>	133	311,5	750	
<u>133,9</u>	139,7	330	750	
<u>153,2</u>	<u>159</u>	375	1 000	2 000
162,5	168,3	390	1 000	2 000
<u>187,9</u>	<u>193,7</u>	455	1 000	2 000
211,9	219,1	515	1 250	2 500
<u>236,5</u>	<u>244,5</u>	580	1 250	2 500

1) These curves may be used in the moderate series.

NOTE — The priority series are underlined.