INTERNATIONAL STANDARD ISO 3284

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

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

First edition — 1974-12-15

ISO 3284:1974
https://standards.iteh.ai/catalog/standards/sist/05326590-abfd-4c9c-8359-6038b6b8aa97/iso-3284-1974

UDC 621.867

Ref. No. ISO 3284-1974 (E)

Descriptors : handling equipment, continuous handling, bulk products, pneumatic equipment, pneumatic lines, pipe bends, dimensions.

Price based on 2 pages

FOREWORD

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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.

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

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Australia	Germany	Spain
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Egypt, Arab Rep. of	Netherlands	United Kingdom
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France	South Africa, Rep. of	Yugoslavia

No Member Body expressed disapproval of the document.

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Printed in Switzerland

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.

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2 SYMBOLS

ISO 3284:1974
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D = Inside diameter

D_1 = Outside diameter

R = Mean radius of curve

L = Length of straight sleeve

3 DIMENSIONS FOR LIGHT DUTY SERVICE

Dimensions in millimetres

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

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

NOTE — The priority series are underlined.

4 DIMENSIONS FOR MODERATE DUTY SERVICE

Dimensions in millimetres

D	D_1	Small curve	Intermediate curve		Large curve	
		R	R	L	R	L
43,1	48,3	109,5	500	500	1 000	500
48,8	54	122,5	500	500	1 000	500
51,2	57	130	500	500	1 000	500
54,5	60,3	137,5	500	500	1 000	500
64,2	70	160	500	500	1 000	500
70,3	76,1	175	500	500	1 000	500
82,5	88,9	207,5	500	500	1 000	500
94,4	101,6	235	750	500	1 500	500
100,8	108	252,5	750	500	1 500	500
107,1	114,3	270	750	500	1 500	500
125	133	311,5	750	500	1 500	500
131,7	139,7	330	750	500	1 500	500
150	159	375	1 000	500	2 000	500
159,3	168,3	390	1 000	500	2 000	500
182,9	193,7	455	1 000	500	2 000	500
207,3	219,1	515	1 250	500	2 500	500
231,9	244,5	580	1 250	500	2 500	500
260,4	273	650	1 250	500	2 500	500
315,1	323,9	770	1 250	500	2 500	500
339,6	355,6	850	1 250	500	2 500	500
352	368	875	1 250	500	2 500	500

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5 DIMENSIONS FOR HEAVY DUTY SERVICE

Dimensions in millimetres

D	D_1	Small curve		Intermediate curve		Large curve	
		R	L	R	L	R	L
40,2	48,3	120	50	500	500	750	500
44	54	120	50	500	500	750	500
47	57	150	50	500	500	750	500
50,3	60,3	150	50	500	500	750	500
57,4	70	160	50	750	500	1 000	500
63,5	76,1	175	50	750	500	1 000	500
76,3	88,9	200	50	750	500	1 500	500
89	101,6	200	50	750	500	1 500	500
95,4	108	200	50	750	500	1 500	500
101,7	114,3	215	75	1 000	500	1 500	500
120,4	133	250	75	1 000	500	1 500	500
127,1	139,7	265	75	1 000	500	1 500	500
146,4	159	300	75	1 000	500	1 500	500
155,7	168,3	320	100	1 000	500	1 500	500
177,7	193,7	365	100	1 000	500	1 500	500
203,1	219,1	415	100	1 000	500	1 500	500
228,5	244,5	465	100	1 000	500	1 500	500
253	273	550	150	1 000	500	1 500	500
303,9	323,9	650	150	1 500	500	2 000	500
335,6	355,6	700	150	1 500	500	2 000	500

NOTE — The recommended values of elementary arcs are : 15°, 22,5°, 30°. They are usually made in cast materials.