SLOVENSKI STANDARD
SIST ISO 7902-2:2002

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Hydrodynamic plain journal bearings under steady-state conditions -- Circular cylindrical
bearings -- Part 2: Functions used in the calculation procedure

iTeh STANDARD PREVIEW
Paliers lisses hydrodynamiques radiaux fonctionnant en régime stabilisé -- Paliers
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circulaires cylindriques -- Partie 2: Fonctions utilisées pour le calcul

Ta slovenski standard je istoveten z: **ISO 7902-2:1998**

ICS:

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INTERNATIONAL STANDARD

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Hydrodynamic plain journal bearings under steady-state conditions — Circular cylindrical bearings —

Part 2:
Functions used in the calculation procedure

Paliers lisses hydrodynamiques radiaux fonctionnant en régime stabilisé — Paliers circulaires cylindriques —

Partie 2: Fonctions utilisées pour le calcul

Reference number
ISO 7902-2:1998(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7902-2 was prepared by Technical Committees ISO/TC 123, *Plain bearings*, Subcommittee SC 4, *Methods of calculation of plain bearings*.

ISO 7902 consists of the following parts, under the general title *Hydrodynamic plain journal bearings under steady-state conditions — Circular cylindrical bearings*:

— *Part 1: Calculation procedure*

— *Part 2: Functions used in the calculation procedure*

— *Part 3: Permissible operational parameters*

Annex A of this part of ISO 7902 is for information only.

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ISO 7902-2:1998(E)

Hydrodynamic plain journal bearings under steady-state conditions — Circular cylindrical bearings —

Part 2:
Functions used in the calculation procedure

1 Scope

This part of ISO 7902 specifies the values of the basic functions used in the calculation procedure for oil-lubricated circular cylindrical hydrodynamic bearings under conditions of full lubrication.

The values are given for the assumptions and boundary conditions given in ISO 7902-1. The values necessary for the calculation may be determined from the tables of bearing characteristics, the graphs and from the equations.

The descriptions of the symbols used and calculation examples are given in ISO 7902-1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7902. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7902 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3448:1992, *Industrial liquid lubricants — ISO viscosity classification*.

ISO 7902-1:1998, *Hydrodynamic plain journal bearings under steady-state conditions — Circular cylindrical bearings — Part 1: Calculation procedure*.

3 Tables of basic bearing characteristics

Tables 1 to 30 give

— the attitude angle, β,

— The Sommerfeld number, So,

— the specific coefficient of friction, taking account of the unloaded area of lubricant film, f'/ψ,

— the specific coefficient of friction in the loaded area of the lubricant film, f/ψ,

— The coefficient of lubricant flow rate, parameter Q_3^*, due to generation of the internal pressure, as a function of angular span, Ω, relative eccentricity ε and relative bearing width B/D,

for various values of ε, Ω and B/D.

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Table 1 — Values of the basic characteristics for $\Omega = 360°$ and $B/D = 1,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	72,523 6	0,427 3	7,599 2	4,968 4	0,047 7
0,4	62,658 8	1,000 5	3,603 5	2,658 2	0,093 5
0,6	51,969 2	1,972 4	2,227 2	1,669 5	0,136 1
0,8	38,160 1	4,682 4	1,365 3	1,073 6	0,175 9
0,9	27,961	10,138 2	0,921 8	0,760 4	0,193 9
0,925	24,618 4	13,825 6	0,790 6	0,667 8	0,198
0,95	19,800 7	22,044	0,617 3	0,535 9	0,201
0,975	13,597 1	48,842 9	0,404	0,358 6	0,203 6

Table 2 — Values of the basic characteristics for $\Omega = 360°$ and $B/D = 1,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	73,342 7	0,341	9,497 8	6,201 6	0,044 4
0,4	62,653 3	0,815 5	4,380 8	3,245 7	0,087 6
0,6	51,390 1	1,671 5	2,583 7	1,925 7	0,128 7
0,8	37,247 4	4,210 7	1,485 5	1,128 5	0,167 9
0,9	27,270 1	9,462 1	0,967 8	0,794 9	0,186 0
0,925	23,958 6	13,083 9	0,819 7	0,690 0	0,190 1
0,95	19,304 5	21,127 1	0,633 2	0,548 4	0,193 6
0,975	13,315 4	47,533 2	0,409 7	0,363 1	0,195 9

Table 3 — Values of the basic characteristics for $\Omega = 360°$ and $B/D = 1$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	74,208	0,249 2	12,958	8,448 9	0,039 4
0,4	62,574 4	0,611	5,786 5	4,272 1	0,078 5
0,6	50,454 5	1,318 2	3,210 2	2,376 1	0,116 4
0,8	36,027 8	3,595 5	1,691 5	1,276 6	0,153 3
0,9	26,368 5	8,520 3	1,045 7	0,853 7	0,170 8
0,925	23,072 6	12,034 2	0,868 2	0,727 5	0,174 8
0,95	18,639 2	19,799	0,659 9	0,569 6	0,178 3
0,975	12,938 8	45,572 1	0,419 3	0,371	0,180 8

Table 4 — Values of the basic characteristics for $\Omega = 360°$ and $B/D = 0,75$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	75,022	0,158 4	20,390 9	13,237 2	0,325 5
0,4	62,258 4	0,399 3	8,760 6	6,183	0,065
0,6	49,355 4	0,915 5	4,516 7	3,316 1	0,097 2
0,8	34,514 4	2,784 8	2,106 7	1,571 2	0,129 2
0,9	25,188 7	7,161 4	1,197 9	0,969 6	0,144 7
0,925	21,882 3	10,461 1	0,962 7	0,801	0,148 3
0,95	17,739 3	17,736 3	0,711 9	0,611 4	0,151 6
0,975	12,426 4	42,382 9	0,438 4	0,386 9	0,153

Table 5 — Values of the basic characteristics for $\Omega = 360°$ and $B/D = 0,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	75,818 8	0,778 8	41,264 1	26,832 2	0,023 3
0,4	61,762 8	0,202 6	17,087 5	12,010 1	0,046 8
0,6	47,970 3	0,499 5	8,083 7	5,856 1	0,070 3
0,8	32,965 3	1,74	3,226 7	2,369 8	0,093 8
0,9	23,503 7	5,157 9	1,576 8	1,260 4	0,105 4
0,925	20,317 1	7,916 8	1,205	0,992	0,108 2
0,95	16,529 2	14,175 7	0,844 9	0,719 8	0,110 7
0,975	11,716 4	36,438	0,487	0,415	0,112 8

Table 6 — Values of the basic characteristics for $\Omega = 360°$ and $B/D = 0,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	75,852 2	0,020 9	153,245 2	99,557 1	0,012 3
0,4	61,484 3	0,056	61,556 7	41,887 9	0,024 6
0,6	47,407 6	0,146	27,106 5	18,705 8	0,036 8
0,8	31,289 6	0,605 3	8,857 7	6,396 1	0,049 2
0,9	21,531 5	2,203 7	3,435 6	2,697 2	0,055 3
0,925	18,530 6	3,670 7	2,399 4	1,942 4	0,056 8
0,95	15,078	7,346 6	1,493 1	1,254 6	0,058 2
0,975	10,779 2	22,666 5	0,714 9	0,563 2	0,059 5

Table 7 — Values of the basic characteristics for $\Omega = 180°C$ and $B/D = 1,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	66,676 7	0,378 1	8,571 8	4,556 5	0,038 5
0,4	54,239 5	0,877 1	4,097 2	2,442 4	0,062 8
0,6	44,247 1	1,752 8	2,449 6	1,680 3	0,075 5
0,8	32,582	4,353 1	1,418 2	1,139 1	0,075
0,9	24,256	9,698 7	0,916 1	0,796	0,067 5
0,925	21,517 7	13,445 1	0,784 6	0,678 2	0,063 2
0,95	18,655 7	20,525 9	0,642 3	0,549 5	0,058 9
0,975	12,665 2	47,276 1	0,405 9	0,370 1	0,050 1

Table 8 — Values of the basic characteristics for $\Omega = 180°$ and $B/D = 1,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	67,708 5	0,310 6	10,415 5	5,514 6	0,036 9
0,4	55,202 7	0,732 6	4,843 1	2,866 6	0,061 5
0,6	44,364 2	1,531 2	2,774 4	1,893 1	0,074 8
0,8	32,449 1	3,981 9	1,529 6	1,224 8	0,074 7
0,9	24,033 7	9,227 9	0,964 3	0,822	0,068 2
0,925	21,247	12,858 4	0,810 6	0,707 5	0,064 2
0,95	18,433	19,947 1	0,654 9	0,558 9	0,060 1
0,975	12,347 1	46,753 5	0,406 6	0,370 6	0,050 7

Table 9 — Values of the basic characteristics for $\Omega = 180°$ and $B/D = 1$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	69,018 2	0,232 8	13,868 3	7,306 8	0,033 8
0,4	56,409 3	0,560 1	6,286 1	3,687 3	0,057 5
0,6	44,589	1,244 8	3,365 2	2,279 7	0,072 9
0,8	32,368 1	3,451 4	1,731 2	1,379 9	0,073 5
0,9	23,770 1	8,403 7	1,039	0,906 1	0,067 9
0,925	20,898 1	11,940 5	0,857 4	0,744 6	0,064
0,95	18,135 1	18,577 5	0,691	0,589 4	0,060 1
0,975	11,901 7	45,771	0,409 4	0,375 4	0,051 3

Table 13 — Values of the basic characteristics for $\Omega = 150°$ and $B/D = 1,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	61,770 3	0,305 8	10,574 2	4,767 8	0,328 8
0,4	47,933 7	0,738	4,793 3	2,489	0,044 5
0,6	39,850 8	1,554 7	2,718 1	1,659 9	0,052 1
0,8	30,215 2	4,061 6	1,490 5	1,108 2	0,050 1
0,9	23,445 9	9,207 3	0,961 8	0,771 2	0,043 7
0,925	20,432	13,050 8	0,794 9	0,655 1	0,040 3
0,95	17,262	20,569 9	0,630 1	0,525	0,036 5
0,975	12,396	46,556 5	0,408 3	0,35	0,032 5

Table 10 — Values of the basic characteristics for $\Omega = 180°$ and $B/D = 0,75$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	70,534 9	0,151 3	21,282 4	11,151 3	0,028 9
0,4	57,855 8	0,381	9,166 3	5,320 7	0,051 3
0,6	45,012 4	0,888 3	4,632 8	3,107 8	0,066
0,8	32,312 8	2,698 7	2,154	1,705	0,069 8
0,9	23,336 7	7,137 5	1,188	1,032 2	0,064 9
0,925	20,438 4	10,425 2	0,954 6	0,827 8	0,061 7
0,95	17,579 3	16,746 5	0,746 9	0,639	0,058
0,975	11,294 8	43,512 8	0,420 4	0,380 1	0,051 3

Table 14 — Values of the basic characteristics for $\Omega = 150°$ and $B/D = 1,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	62,776 5	0,258 8	12,478 4	5,604	0,028 3
0,4	48,877 3	0,637 4	5,528 2	2,850 1	0,044 5
0,6	40,280 1	1,380 6	3,038 3	1,843 6	0,052 6
0,8	30,231 1	3,747 2	1,598 7	1,184 4	0,050 9
0,9	23,432 6	8,690 6	1,008 3	0,800 2	0,044 7
0,925	20,295 4	12,474 1	0,823 2	0,680 5	0,041 3
0,95	17,159 2	19,833 7	0,647 4	0,542 5	0,037 5
0,975	12,298 7	45,382 6	0,415 4	0,370 5	0,033 4

Table 11 — Values of the basic characteristics for $\Omega = 180°$ and $B/D = 0,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	72,293 9	0,074 7	43,011 7	22,402 8	0,021 3
0,4	58,192 8	0,200 2	17,289 7	9,961 3	0,039 4
0,6	45,697 1	0,49	8,228 4	5,451 8	0,052 2
0,8	31,575 6	1,722 2	3,249 8	2,550 2	0,057 3
0,9	22,246	5,167 6	1,566 6	1,335 2	0,054 7
0,925	19,751 4	7,843 6	1,210 4	1,039	0,053
0,95	16,593 5	13,852	0,862	0,741 9	0,050 8
0,975	10,769 1	38,055	0,460 1	0,412	0,045 1

Table 15 — Values of the basic characteristics for $\Omega = 150°$ and $B/D = 1$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	64,170 8	0,202 2	15,945 9	7,122 8	0,026 8
0,4	50,190 4	0,509 9	6,875 9	3,51	0,043 4
0,6	41,135 1	1,143 4	3,631 8	2,175 7	0,052 6
0,8	30,244 5	3,296 7	1,789 7	1,318 9	0,051 1
0,9	22,963 4	8,078 7	1,067 7	0,886 2	0,045
0,925	20,115	11,598 6	0,871 9	0,748 8	0,041 9
0,95	16,946 5	18,783 7	0,674 1	0,563 6	0,038 3
0,975	12,184 4	43,302 6	0,429 4	0,376	0,033 9

Table 12 — Values of the basic characteristics for $\Omega = 180°$ and $B/D = 0,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	73,936 4	0,019	169,077 7	87,621 5	0,011
0,4	59,674 3	0,053 7	64,035 4	36,513 5	0,021 4
0,6	45,563 1	0,146 5	27,014 5	16,989 1	0,029 5
0,8	30,521 4	0,605 4	8,852 2	6,047 2	0,033 9
0,9	21,448 2	2,172 5	3,482 1	2,703 6	0,033 4
0,925	19,517 5	3,461 7	2,543	2,011 9	0,033 2
0,95	14,938 5	7,348 5	1,491 6	1,260 3	0,032 1
0,975	9,461 7	23,426 6	0,683 7	0,566 8	0,029 9

Table 16 — Values of the basic characteristics for $\Omega = 150°$ and $B/D = 0,75$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	65,961 1	0,136 7	23,553 7	10,449 6	0,023 8
0,4	51,996 3	0,356 1	9,782 7	4,927 4	0,04
0,6	42,117 4	0,837 2	4,891 8	2,887 7	0,05
0,8	30,636 7	2,606 8	2,211	1,615 4	0,049 7
0,9	22,669 5	6,943 8	1,211 4	1,000 8	0,044 3
0,925	19,853 4	10,166 2	0,970 4	0,815 5	0,041 5
0,95	16,681 2	16,940 9	0,730 2	0,608	0,038 2
0,975	11,904 4	40,595 3	0,448 8	0,380 9	0,033 7

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Table 17 — Values of the basic characteristics for $\Omega = 150°$ and $B/D = 0,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	67,982 1	0,070 6	45,488 2	20,028 9	0,018 4
0,4	54,289 6	0,189 9	18,209 7	9,021 1	0,032 3
0,6	43,007 8	0,477 5	8,429 1	4,915 2	0,041 2
0,8	30,304 7	1,692 7	3,295 1	2,378 5	0,043 1
0,9	22,185 9	5,033 5	1,601 8	1,293	0,040 2
0,925	19,66	7,583 4	1,246	1,022	0,038 5
0,95	16,378 1	13,255 2	0,894 6	0,738 3	0,036 1
0,975	11,467 3	34,970 3	0,501 2	0,424 5	0,031 7

Table 18 — Values of the basic characteristics for $\Omega = 150°C$ and $B/D = 0,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	70,141 7	0,018 5	173,657 4	75,891 2	0,009 9
0,4	56,480 4	0,052 9	65,001 8	31,701 1	0,018 5
0,6	43,946 4	0,144 7	27,351	15,684 6	0,024 8
0,8	29,809 3	0,600 8	8,914 3	6,343 3	0,026 9
0,9	21,215 2	2,153 9	3,509	2,611 2	0,025 9
0,925	18,326 8	3,587 1	2,450 4	1,911 4	0,025 1
0,95	15,853 8	6,827 2	1,603 5	1,270 1	0,024 4
0,975	10,791 7	21,429 5	0,751	0,631 5	0,022 1

Table 19 — Values of the basic characteristics for $\Omega = 120°$ and $B/D = 1,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	56,676 3	0,219 6	14,682 2	5,394 3	0,019 5
0,4	42,036 2	0,553 6	6,325 8	2,743 3	0,028 4
0,6	34,566 2	1,267 2	3,269 2	1,713 3	0,033 5
0,8	27,097 3	3,610 8	1,632 3	1,085 8	0,030 8
0,9	21,230 1	8,726 1	0,988 9	0,768	0,025 4
0,925	19,173 2	12,258 2	0,826 4	0,667 3	0,023 5
0,95	16,245 9	19,760 5	0,642	0,514 8	0,020 9
0,975	12,526 3	42,612 1	0,437 5	0,353 7	0,018 1

Table 20 — Values of the basic characteristics for $\Omega = 120°C$ and $B/D = 1,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	58,210 3	0,184 8	17,438 2	6,371 7	0,019 1
0,4	42,953	0,486 9	7,176 7	3,091 1	0,028 7
0,6	35,068 9	1,144 9	3,602 3	1,873 2	0,033 8
0,8	27,206 7	3,366 5	1,738 2	1,151 4	0,031 3
0,9	21,216 3	8,307 8	1,030 4	0,798 4	0,026 3
0,925	19,068 1	11,786 9	0,852 6	0,691 1	0,024 3
0,95	16,196 2	19,095 2	0,659 4	0,530 5	0,022 3
0,975	12,497 1	41,177 5	0,448 8	0,375 1	0,018 9

Table 21 — Values of the basic characteristics for $\Omega = 120°$ and $B/D = 1$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	59,398 7	0,153	21,036 9	7,650 6	0,018 8
0,4	44,128 5	0,407 5	8,550 6	3,649 7	0,028 8
0,6	35,883 7	0,977 9	4,191 5	2,157 8	0,033 6
0,8	27,36	3,009 4	1,923 7	1,266 5	0,031 6
0,9	21,254 9	7,658 1	1,104 3	0,852 5	0,027
0,925	18,998 1	11,022 2	0,900 7	0,728 2	0,025 1
0,95	16,145 2	18,053 6	0,689 4	0,541 8	0,022 5
0,975	12,470 2	39,792 4	0,460 6	0,389 6	0,019 7

Table 22 — Values of the basic characteristics for $\Omega = 120°$ and $B/D = 0,75$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	61,304 5	0,110 2	29,196 2	10,540 9	0,017 5
0,4	45,817 9	0,301	11,530 2	4,858 3	0,027 7
0,6	37,124 9	0,747 1	5,437 2	2,756 5	0,032 8
0,8	27,997 8	2,440 1	2,333 6	1,518 5	0,031 8
0,9	21,183 6	6,656 1	1,245 4	0,956 1	0,027 3
0,925	18,901 5	9,760 2	0,996 9	0,766 5	0,025 5
0,95	15,968 8	16,405 7	0,744	0,590 5	0,022 9
0,975	12,355 1	37,152 8	0,484 9	0,401	0,020 2

Table 23 — Values of the basic characteristics for $\Omega = 120°$ and $B/D = 0,5$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	63,707 2	0,061 1	52,602	18,817 3	0,014 4
0,4	48,359 7	0,171 3	20,155 6	8,330 5	0,023 8
0,6	39,012 5	0,444 6	9,021 4	4,469 2	0,029 5
0,8	27,961	1,641 3	3,377 6	2,166 4	0,029 7
0,9	20,901 3	4,956 1	1,614 8	1,227 2	0,026 3
0,925	18,945 4	7,410 6	1,265 9	0,962 4	0,025
0,95	15,685 6	13,250 3	0,887 8	0,691 3	0,022 7
0,975	11,904 8	31,950 5	0,548 1	0,436 5	0,019 9

Table 24 — Values of the basic characteristics for $\Omega = 120°$ and $B/D = 0,25$

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	66,239 9	0,016 9	190,023 5	67,326 8	0,008 2
0,4	51,432	0,050 7	67,705 1	27,357	0,014 8
0,6	41,159 6	0,138 7	28,511 7	13,726 9	0,019
0,8	28,646 6	0,589 2	9,077 7	5,683 1	0,019 9
0,9	20,788 5	2,124 4	3,552 3	2,517 7	0,018 5
0,925	17,974 1	3,548 5	2,472 8	1,878 2	0,017 6
0,95	14,837 7	7,037 8	1,551 2	1,195 1	0,016 5
0,975	11,015 9	20,770 2	0,773 9	0,609 1	0,015 3

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Table 25 — Values of the basic characteristics for
Ω **= 90° and** B/D **= 1,5**

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	53,340 2	0,117 6	27,355	7,627 6	0,011 4
0,4	37,166 5	0,330 1	10,503 4	3,54	0,015 9
0,6	28,916 7	0,864 2	4,688 1	1,975 8	0,017 4
0,8	23,203 7	2,881 7	1,974 6	1,104 1	0,015 1
0,9	18,831 5	7,636 6	1,089	0,748 7	0,012 5
0,925	17,184 5	11,026 1	0,886 5	0,623 5	0,011 5
0,95	14,926 5	18,268 3	0,673 1	0,509 7	0,010 5
0,975	11,529 4	40,891 4	0,443 2	0,354 1	0,009 7

Table 28 — Values of the basic characteristics for
Ω **= 90° and** B/D **= 0,75**

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	56,944 4	0,072 4	44,358 3	12,206 8	0,010 9
0,4	40,269 7	0,209 4	16,497 3	5,433 2	0,016 3
0,6	30,87	0,574 6	6,988 6	2,863 8	0,018 5
0,8	24,152 3	2,093 3	2,664 9	1,456 8	0,017 1
0,9	18,953 4	6,057 6	1,336	0,906 4	0,014 3
0,925	17,165 1	9,020 4	1,053 1	0,737 3	0,013 2
0,95	14,823 7	15,375 7	0,775 9	0,578	0,011 7
0,975	11,44	36,078 4	0,488	0,387 8	0,010 3

Table 26 — Values of the basic characteristics for
Ω **= 90° and** B/D **= 1,25**

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	54,116 5	0,106 9	30,061 7	8,360 5	0,011 5
0,4	37,610 1	0,307 4	11,266	3,786	0,016 1
0,6	29,198 4	0,80C 8	5,05	2,114 5	0,017 8
0,8	23,378 2	2,719	2,084 4	1,160 5	0,015 8
0,9	18,857	7,317 6	1,130 4	0,775 2	0,013 1
0,925	17,239 6	10,598 2	0,917 2	0,645 1	0,012 1
0,95	14,908	17,588 5	0,694 2	0,519	0,011
0,975	11,511 7	39,939 2	0,451 3	0,360 1	0,009 9

Table 29 — Values of the basic characteristics for
Ω **= 90° and** B/D **= 0,5**

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	59,758	0,043 6	73,56	20,031 8	0,009 6
0,4	42,706 3	0,132	26,098 7	8,439 3	0,015 1
0,6	32,766	0,373 1	10,686 6	4,276 1	0,017 6
0,8	24,867 7	1,468 5	3,733 8	2,000 8	0,016 8
0,9	19,130 2	4,626 1	1,705 4	1,141 8	0,014 3
0,925	17,137 3	7,140 5	1,294 2	0,870 4	0,013 2
0,95	14,715 4	12,688 2	0,913 6	0,675 2	0,011 8
0,975	11,271 1	31,525 5	0,543 8	0,430 8	0,010 3

Table 27 — Values of the basic characteristics for
Ω **= 90° and** B/D **= 1**

Table 30 — Values of the basic characteristics for
Ω **= 90° and** B/D **= 0,25**

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	55,814 5	0,089 3	35,979 2	9,946 3	0,011 2
0,4	38,693 2	0,266	13,010 3	4,335	0,016 3
0,6	29,800 6	0,710 5	5,676 2	2,356 7	0,018 3
0,8	25,653 6	2,477 4	2,274	1,257 6	0,016 5
0,9	19,043	6,803	1,206 2	0,823 3	0,013 8
0,925	17,202 1	10,011 5	0,962 6	0,673 5	0,012 6
0,95	14,919 6	16,815 8	0,720 6	0,537 7	0,011 5
0,975	11,480 1	38,478 5	0,464 5	0,369 9	0,010 3

ε	β	So	f'/ψ	f/ψ	Q_3^*
0,2	62,837 4	0,013 7	234,859 2	63,203 8	0,006 1
0,4	46,171 9	0,043 5	79,019 7	24,894 2	0,010 3
0,6	35,874 7	0,127 6	30,956 5	11,918 6	0,012 9
0,8	26,275 4	0,562 6	9,484	4,901 4	0,013
0,9	19,422 4	2,082 7	3,610 3	2,286	0,011 4
0,925	17,290 7	3,434	2,545 1	1,695 8	0,010 8
0,95	14,552 2	6,800 3	1,598 9	1,109 3	0,009 9
0,975	10,663	20,280 2	0,787 3	0,587 5	0,008 7

4 Graphs of basic bearing characteristics

Figures 1 to 50 graphically represent the functions β, So, f'/ψ, f/ψ and Q_3^*.

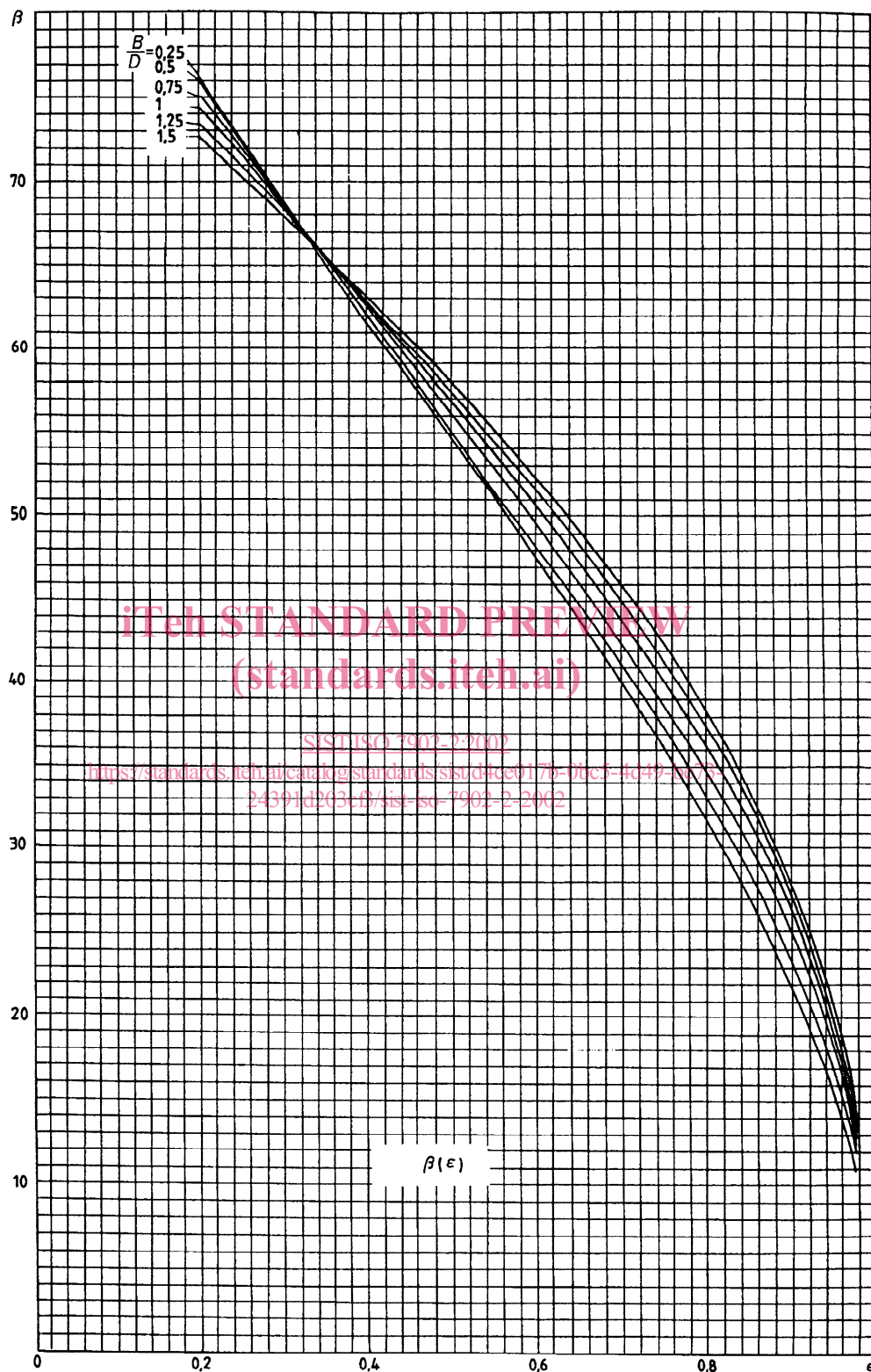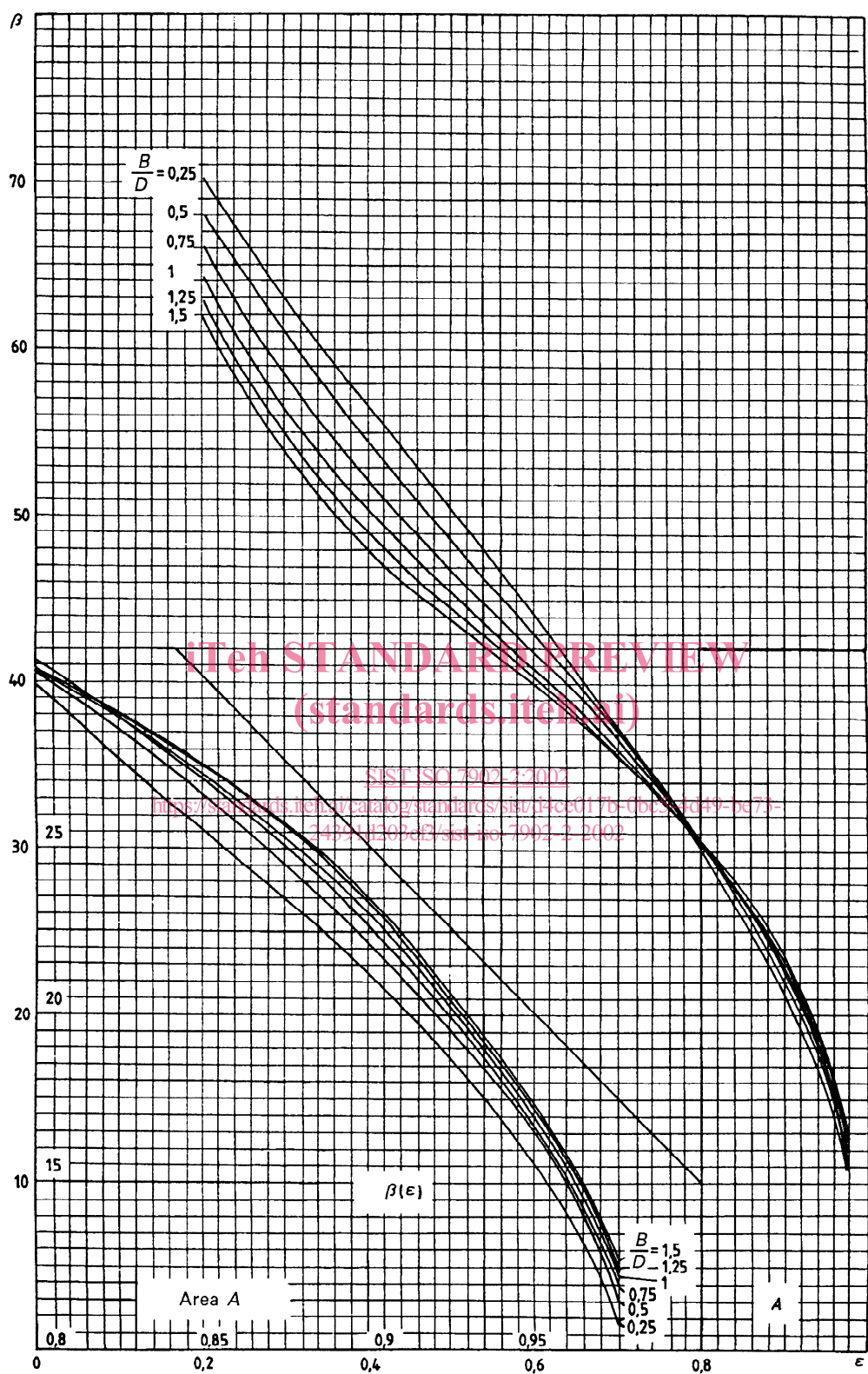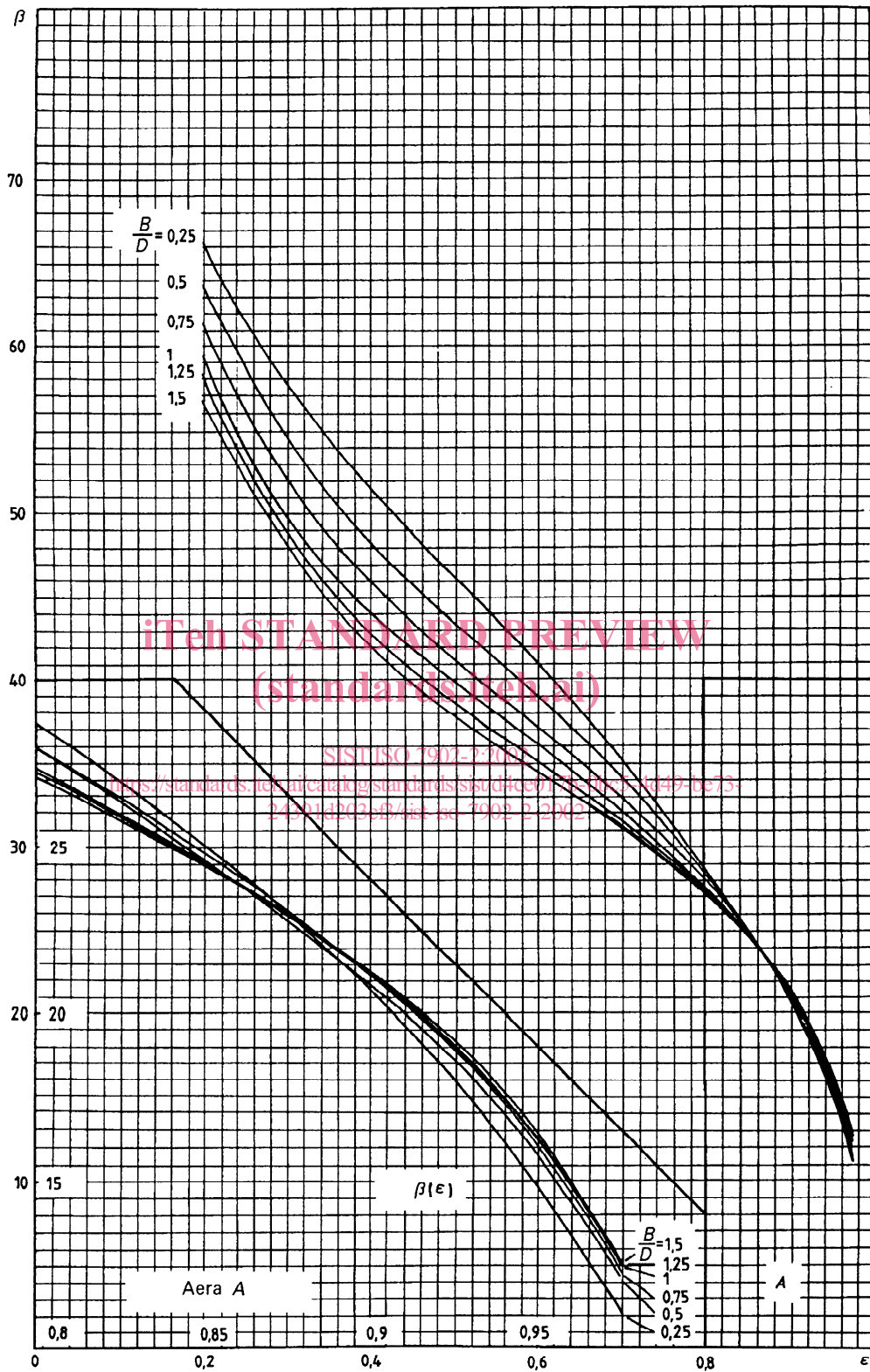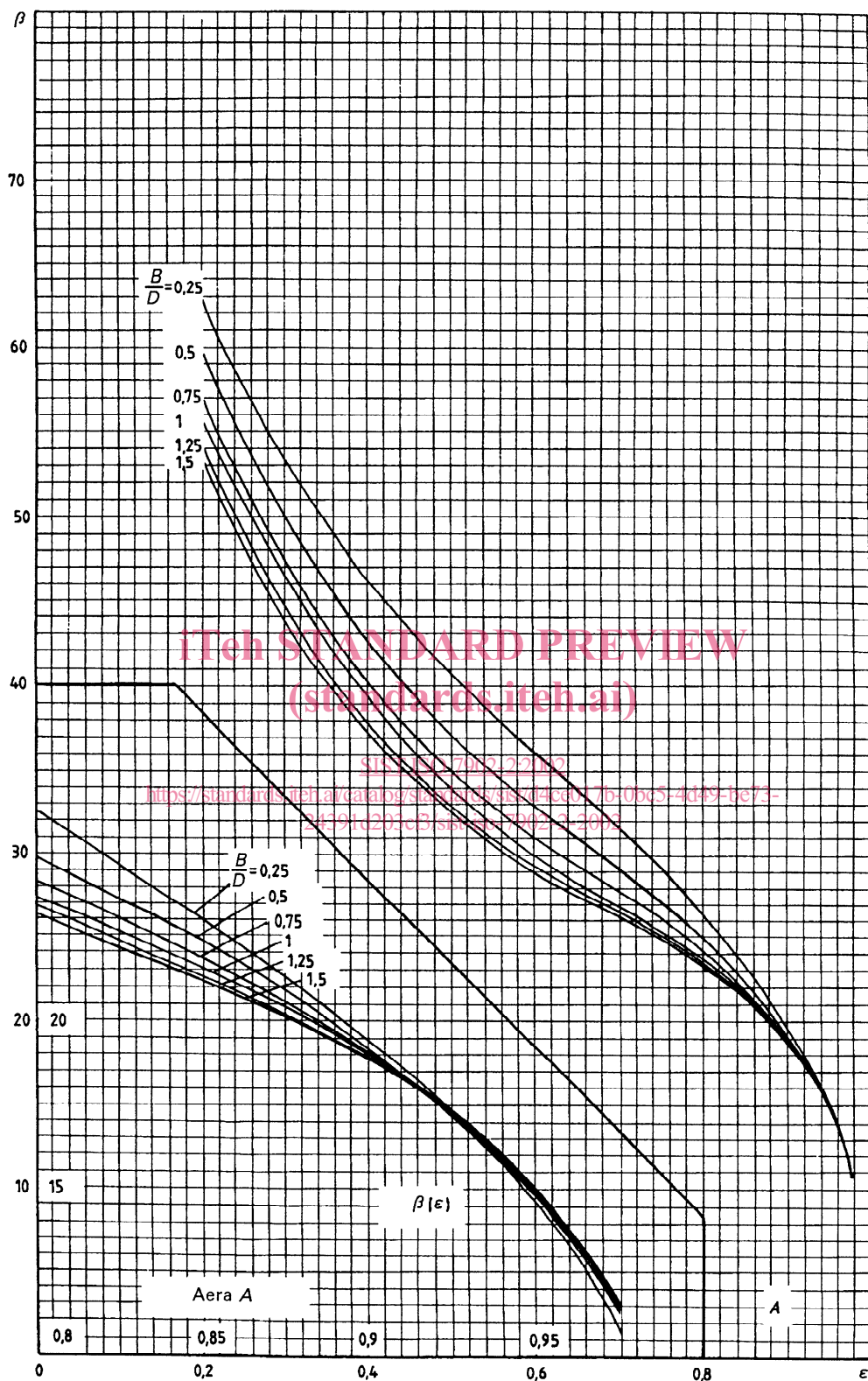Figure 1 — Attitude angle β as a function of relative eccentricity ε for $\Omega = 360°$

Figure 2 — Attitude angle β as a function of relative eccentricity ε for $\Omega = 180°$

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Figure 3 — Attitude angle β as a function of relative eccentricity ε for Ω = 150°

Figure 4 — Attitude angle β as a function of relative eccentricity ε for $\Omega = 120°$

Figure 5 — Attitude angle β as a function of relative eccentricity ε for $\Omega = 90°$
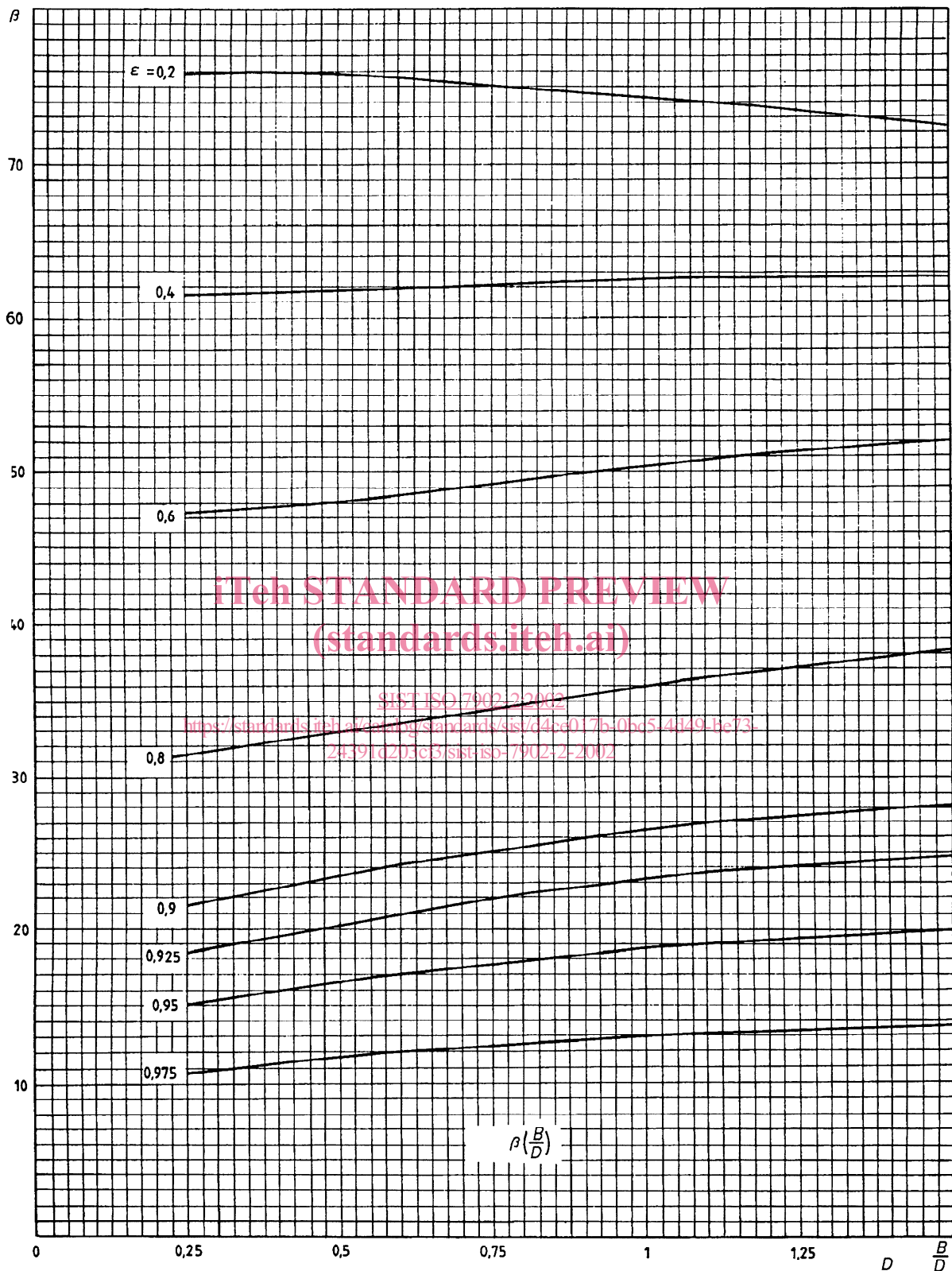
Figure 6 — Attitude angle β as a function of relative bearing width B/D for $\Omega = 360°$