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NATIONAL STANDARD OF THE
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ICS 21.040.10

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GB/T 196-2003

Replacing GB/T 196-1981

General Purpose Metric Screw Threads – Basic Dimensions

(ISO 724:1993, ISO general purpose metric screw threads –

Basic dimensions, MOD)

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Issued on: May 22, 2003

Implemented on: January 1, 2004

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;

Standardization Administration of the People's Republic of China.

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Foreword

This standard is modified in relation to ISO 724:1993 "ISO general purpose metric screw threads- basic dimensions". There is no technical differences between this standard and ISO standard.

There are differences between GB/T 14791-1993 "The terms of screw threads" and the ISO 5408:1983 "The terms of cylindrical thread". The screw threads can be categorized into: cylindrical thread and tapered thread; pressurized thread and non-pressurized thread; mechanical binding thread and transmission thread; symmetric V-thread and asymmetric V-thread. For the time being, the ISO 5408 only specifies the terms for the cylindrical thread (part of the mechanical binding thread and part of transmission thread), which is far beyond the functioning demand of the real production. On the basis of the practices in Japan, the United States and Russia, a standard of the thread terms which is applicable to various screw threads is formulated in China. The technical content of this standard is much more comprehensive and that of the ISO thread terms is also included.

This standard replaces GB/T 196-1981 "General purpose metric screw threads-Basic dimensions".

Compared with GB/T 196-1981, in this standard, there are some changes on the specifications of the thread. The specific changes on specification are given in GB/T 193-2003.

This standard specifies the standard for basic dimensions. This series of general purpose metric screw threads-related standards include:

- GB/T 192-2003 General purpose metric screw threads - Basic profile;
- GB/T 193-2003 General purpose metric screw threads - General plan;
- GB/T 9144-2003 General purpose metric screw threads - Preferable plan;
- GB/T 1414-2003 General purpose metric screw threads - The plan for pipe systems;
- GB/T 196-2003 General purpose metric screw threads - Basic dimensions;
- GB/T 197-2003 General purpose metric screw threads - Tolerance;
- GB/T 2516-2003 General purpose metric screw threads - Limit deviations;
- GB/T 15756-1995 General purpose metric screw threads - Limits of size;
- GB/T 9145-2003 General purpose metric screw threads - Limits of sizes for the

General purpose metric screw threads – Basic dimensions

1 Scope

This standard specifies the requirements of the basic dimensions for the general purpose metric screw threads according to GB/T 192-2003 and GB/T 193-2003.

This standard is applicable to the connection of general-purpose mechanical binding threads whose screw thread does not have stopping property.

2 Normative References

The following standards contain the provisions which, through reference in this text, constitute the provisions of this standard. For dated reference, the subsequent modification or revisions of these publications do not apply. However, all parties who reach an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable. For undated references, the latest edition of the normative document is applicable to this standard.

GB/T192-2003 General purpose metric screw threads - Basic profile (ISO 68-1:1998, ISO general purpose screw threads - Basic profile - Part 1: Metric screw threads, MOD)

GB/T193-2003 General purpose metric screw threads - General plan (ISO 261:1998, ISO general purpose metric screw - Threads - General plan, MOD)

GB/T14791 The terms of screw threads (neq ISO 5408:1983)

3 Terms and Definitions

The terms and definitions specified in GB/T 14791 are applicable to this standard.

4 Code Names

D — Basic major diameter (nominal diameter) of the internal thread;

d — Basic major diameter (nominal diameter) of the external thread;

D₂ — Basic pitch diameter of the internal thread;

	0.2	0.870	0.783
1.1	0.25	0.938	0.829
	0.2	0.970	0.883
1.2	0.25	1.038	0.929
	0.2	1.070	0.983
1.4	0.3	1.205	1.075
	0.2	1.270	1.183
1.6	0.35	1.373	1.221
	0.2	1.470	1.383
1.8	0.35	1.573	1.421
	0.2	1.670	1.583
2	0.4	1.740	1.567
	0.25	1.838	1.729
2.2	0.45	1.908	1.713
	0.25	2.038	1.929
2.5	0.45	2.208	2.013
	0.35	2.273	2.121
3	0.5	2.675	2.459
	0.35	2.773	2.621
3.5	0.6	3.110	2.850
	0.35	3.273	3.121
4	0.7	3.545	3.242
	0.5	3.675	3.459
4.	0.75	4.013	3.688
5	0.5	4.175	3.959
5	0.8	4.480	4.134
	0.5	4.675	4.459
5.5	0.5	5.175	4.959
6	1	5.350	4.917
	0.75	5.513	5.188
7	1	6.350	5.917
	0.75	6.51	6.188
		3	
8	1.25	7.188	6.647
	1	7.350	6.917
	0.75	7.513	7.188
9	1.25	8.188	7.647
	1	8.350	7.917
	0.75	8.513	8.188
10	1.5	9.026	8.376
	1.25	9.188	8.647
	1	9.350	8.917
	0.75	9.513	9.

	1.5	27.026	26.376
	1	27.350	26.917
30	3.5	27.727	26.211
	3	28.051	26.752
	2	28.701	27.835
	1.5	29.026	28.376
	1	29.350	28.917
32	2	30.701	29.835
	1.5	31.026	30.376
33	3.5	30.727	29.211
	3	31.051	29.752
	2	31.701	30.835
	1.5	32.026	31.376
35	1.5	34.026	33.376
36	4	33.402	31.670
	3	34.051	32.752
	2	34.701	33.835
	1.5	35.026	34.376
38	1.5	37.026	36.376
39	4	36.402	34.670
	3	37.051	35.752
	2	37.701	36.835
	1.5	38.026	37.376
40	3	38.051	36.752
	2	38.701	37.835
	1.5	39.026	38.376
42	4.5	39.077	37.129
	4	39.402	37.670
	3	40.051	38.752
	2	40.701	39.835
	1.5	41.026	40.376
45	4.5	42.077	40.129
	4	42.402	40.670
	3	43.051	41.752
	2	43.701	42.835
	1.5	44.026	43.376
48	5	44.752	42.587
	4	45.402	43.670
	3	46.051	44.752
	2	46.701	45.835
	1.5	47.026	46.376
50	3	48.051	46.752
	2	48.701	47.835

	4	67.402	65.670
	3	68.051	66.752
	2	68.701	67.835
	1.5	69.026	68.376
72	6	68.103	65.505
	4	69.402	67.670
	3	70.051	68.752
	2	70.701	69.835
	1.5	71.026	70.376
75	4	72.402	70.670
	3	73.051	71.752
	2	73.701	72.835
	1.5	74.026	73.376
76	6	72.103	69.505
	4	73.402	71.670
	3	74.051	72.752
	2	74.701	73.835
	1.5	75.026	74.376
78	2	76.700	75.835
80	6	76.103	73.505
	4	77.402	75.670
	3	78.051	76.752
	2	78.701	77.835
	1.5	79.026	78.376
82	2	80.701	79.835
85	6	81.103	78.505
	4	82.402	80.670
	3	83.051	81.752
	2	83.701	82.835
90	6	86.103	83.505
	4	87.402	85.670
	3	88.051	86.752
	2	88.701	87.835
95	6	91.103	88.505
	4	92.402	90.670
	3	93.051	91.752
	2	93.701	92.835
100	6	96.103	93.505
	4	97.402	95.670
	3	98.051	96.752
	2	98.701	97.835
105	6	101.103	98.505
	4	102.402	100.670

	6	156.103	153.505
	4	157.402	155.670
	3	158.051	156.752
165	6	161.103	158.505
	4	162.402	160.670
	3	163.051	161.752
170	8	164.804	161.340
	6	166.103	163.505
	4	167.402	165.670
	3	168.051	166.752
175	6	171.103	168.505
	4	172.402	170.670
	3	173.051	171.752
180	8	174.804	171.340
	6	176.103	173.505
	4	177.402	175.670
	3	178.051	176.752
185	6	181.103	178.505
	4	182.402	180.670
	3	183.051	181.752
190	8	184.804	181.340
	6	186.103	183.505
	4	187.402	185.670
	3	188.051	186.752
195	6	191.103	188.505
	4	192.402	190.670
	3	193.051	191.752
200	8	194.804	191.340
	6	196.103	193.505
	4	197.402	195.670
	3	198.051	196.752
205	6	201.103	198.505
	4	202.402	200.670
	3	203.051	201.752
210	8	204.804	201.340
	6	206.103	203.505
	4	207.402	205.670
	3	208.051	206.752
215	6	211.103	208.505
	4	212.402	210.670
	3	213.051	211.752
220	8	214.804	211.340
	6	216.103	213.505

	6	296.103	293.505
	4	297.402	295.670

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