



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 9074.18-2017

Tapping screw and washer assemblies with plain washers

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Foreword

This Part is one of the serial national standards of "Fasteners - Assemblies", such series include.

- GB/T 9074.1 Bolt and Screw and Washer Assemblies with Plain Washers;
- GB/T 9074.2 Cross Recessed Pan Head Screw and Serrated Lock Washer External Teeth Assemblies;
- GB/T 9074.3 Cross Recessed Pan Head Screw and Single Coil Spring Lock Washer Assemblies;
- GB/T 9074.4 Cross Recessed Pan Head Screw, Single Coil Spring Lock Washer and Plain Washer Assemblies;
- GB/T 9074.5 Cross Recessed Small Pan Head Screw and Washer Assemblies with Plain Washers;
- GB/T 9074.7 Cross Recessed Small Pan Head Screw and Single Coil Spring Lock Washer Assemblies;
- GB/T 9074.8 Cross Recessed Small Pan Head Screw, Single Coil Spring Lock Washer and Plain Washer Assemblies;
- GB/T 9074.9 Cross Recessed Countersunk Head Screw and Countersunk External Toothed Lock Washer Assemblies;
- GB/T 9074.10 Cross Recessed Raised Countersunk Head Screw and Countersunk External Toothed Lock Washer Assemblies;

- GB/T 9074.11 Cross Recessed Hexagon Bolt with Indention and Plain Washer Assemblies;
- GB/T 9074.12 Cross Recessed Hexagon Bolt with Indentation and Single Coil Spring Lock Washer Assemblies;
- GB/T 9074.13 Cross Recessed Hexagon Bolt with Indentation, Single Coil Lock Washer and Plain Washer Assemblies;
- GB/T 9074.15 Hexagon Head Bolt and Single Coil Spring Lock Washer Assemblies;
- GB/T 9074.16 Hexagon Head Bolt and Serrated Lock Washer External Teeth Assemblies;
- GB/T 9074.17 Hexagon Head Bolt, Single Coil Spring Lock Washer and Plain Washer Assemblies;
- GB/T 9074.18 Tapping Screw and Washer Assemblies with Plain Washers;
- GB/T 9074.20 Cross Recessed Hexagon Head Tapping Screw with Indentation and Washer Assemblies with Plain Washers;
- GB/T 9074.26 Single Coil Spring Lock Washer for Assembly;
- GB/T 9074.27 Serrated Lock Washer External Teeth for Assembly;
- GB/T 9074.28 Countersunk External Toothed Lock Washer for Assembly.

This Part belongs to Part 18 of GB/T 9074.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part replaced GB/T 9074.18-2002 Tapping Screw and Washer Assemblies with Plain Washers; compared with GB/T 9074.18-2002, this Part has the major technical changes as follows.

- Add slotted pan head tapping screw with chamfered end (Type-R) (see Figure 3).

This Part adopts re-drafting method to modify and sue ISO 10510.2011 Tapping Screw and Washer Assemblies with Plain Washers.

The technical differences and their causes between ISO 10510.2011 and this Part are

as follows.

--- In the normative references, use national standards to replace the international standards (see Clause 2); add the reference of GB/T 5276 (see Clause 3), GB/T

90.1 (see Table 2), GB/T 90.2 (see Table 2), GB/T 1237 (see 5.2); so that conform to China's fastener basic standard;

--- Add the packaging technical requirements (see Table 2); so that conform to China's fastener basic standard.

This Part was proposed by China Machinery Industry Federation.

This Part shall be under the jurisdiction of National Technical Committee for Standardization of Fastener (SAC/TC 85).

Drafting organizations of this Part. China Productivity Center for Machinery.

Participating drafting organizations of this Part. Zhejiang Jingyi Standard Components Co, Ltd.

Tapping Screw and Washer

Assemblies with Plain Washers

1 Scope

This Part of GB/T 9074 specifies type and dimension, technical conditions and marking of tapping screw and washer assemblies with plain washers.

This Part is Applicable to the tapping screw and washer assemblies with plain washers for Thread Specification ST 2.2 ~ ST 9.5, flat supporting surface, and the mechanical properties conforming to GB/T 3098.5.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 90.1 Fasteners - Acceptance Inspection (GB/T 90.1-2002, idt ISO

3269.2000)

GB/T 90.2 Fasteners - Marking and Packaging

GB/T 97.5-2002 Plain Washers for Tapping Screw and Washer Assemblies (eqv ISO 10669.1999)

GB/T 845 Cross-Recessed Pan Head Tapping Screws (GB/T 845-2017, ISO 7049.2011, MOD)

GB/T 1237 Designation System for Fasteners (GB/T 1237-2000, eqv ISO 8991.1986)

GB/T 3098.5 Mechanical Properties of Fasteners -Tapping Screws (GB/T 3098.5-2016, ISO 2702.2011, MOD)

GB/T 4340.1 Metallic Materials - Vickers Hardness Test - Part 1. Test Method (GB/T 4340.1-1999, eqv ISO 6507-1.1997)

GB/T 5276 Fasteners - Bolts, Screws, Studs and Nuts - Symbols and Descriptions of Dimensions (GB/T 5276-2015, ISO 225.2010, MOD)

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