

GB/T 4622 Spiral-Wound Metal Gasket Specification

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Fasteners/Washers/Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) GB/T 4622 Spiral Wound Metal Gasket Specification
Washers · GB/T 4622 / ASME B16.20
Dimensional table, tolerance classes and the DIN / ISO / ASME parts that supersede or match this standard.

GB/T 4622 specifies the dimensions and tolerances for spiral-wound metal gasket. The full dimensional table is reproduced below, followed by the DIN, ISO and ASME parts that match or supersede it.

Standard

GB/T 4622

Product

Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090)

Governing standards

GB/T 4622 / ASME B16.20

Equivalence between national standards is dimensional, not always metallurgical. Check the property class separately when substituting.



For spiral-wound metal gasket, GB/T 4622 is the governing document for the dimensions listed below. Mechanical and performance requirements for this part family are set by its own standards, not by the bolt and screw property-class documents.

GB/T 4622 — Scope

GB/T 4622 specifies the dimensional requirements for spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090). Material, surface condition and any performance rating are set by separate documents specific to this part family — ISO 898-1 and ISO 898-2, which govern bolt and nut property classes, do not apply here.

Tolerance & Product Grades

Tolerances for spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090) are given as limits on the individual dimensions in the table rather than as a fastener product grade. Where a general-tolerance class is cited on the drawing instead, it applies to the dimensions not otherwise toleranced.

Dimensions Specified by GB/T 4622

Nominal pipe size	Inner diameter d1 (mm)	Outer diameter d2 (mm)	Thickness t (mm)	Winding material	Reference standard
DN15	22	42	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN20	27	49	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN25	34	59	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN32	43	69	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN40	49	75	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN50	61	87	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN65	77	109	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN80	89	121	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN100	115	149	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20
DN150	169	205	4.5	304SS + flexible graphite	GB/T 4622 / ASME B16.20

Equivalent Standards

Where direct equivalents exist (ISO ↔ DIN, ISO ↔ ASME), they are listed on the parent Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) page. Always confirm against the dimensions on this page, since some "equivalent" standards differ in tolerances and head geometry.

When to Specify GB/T 4622

Choose GB/T 4622 for international engineering work and OEM supply where ISO standards are the contractual reference. It is the default modern specification for spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090).

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose.

Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Sends the selected values to the quote form below.

Request a Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (GB/T 4622 / ASME B16.20)

Nominal pipe size	Inner diameter d1 (mm)	Outer diameter d2 (mm)	Thickness t (mm)	Winding material	Reference standard
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Video: GB/T 4622 Spiral-Wound Metal Gasket Specification



► Watch video: <https://www.youtube.com/watch?v=-eHB14c9V-M>

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.

1.



01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



2.

02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.

3.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.

4.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

Which edition of GB/T 4622 does this table follow?

The table reproduces the dimensions we supply spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090) to. We do not publish an edition year against it, so where the edition is contractually significant, cite the edition you require on the enquiry and we will confirm it against the table before quoting.

What does GB/T 4622 specify for Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090)?

GB/T 4622 specifies the dimensions and tolerances of spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090). Material and property class are governed by separate standards in the same family.

Does GB/T 4622 specify the mechanical strength?

No. GB/T 4622 controls the dimensional requirements for spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090).

Mechanical performance is set by the standards specific to this part family — ISO 898-1 and ISO 898-2 apply to bolts, screws and nuts and do not cover this product.

Can I substitute GB/T 4622 for the corresponding DIN standard on a drawing?

On modern drawings the ISO standard is the master reference; the older DIN equivalent is a cross-reference. For most dimensional purposes the parts are interchangeable, but check tolerance grades and the head height — these are the most common points of divergence.

How do I request a quotation?

Use the technical drawing on this page to pick the exact configuration, then submit it with the quote form. We respond within one business day.

Related Pages

[View the full Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 \(Series 090\) page](#)

More Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) Guides

- [ASME B16.20 Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 \(Series 090\)](#)