Commercial plain washer · 100 HV

A 100 HV steel plain washer without chamfer for use under a bolt head or nut. Select the size and finish in the commercial DIN 125 A series; ISO 7089 versions with 200/300 HV hardness have a separate data sheet.

ISO 7089 · UNI 6592

Dimensional range

M2-M60

Series

Normal · without chamfer

Configuration

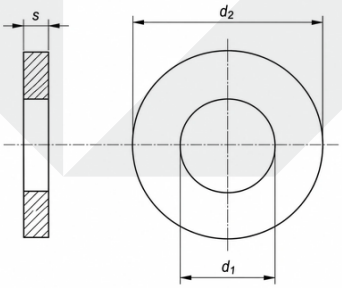
100 HV

References

ISO 7089 · UNI 6592



Technical drawing



d1

bore diameter

d2

outside diameter

s

thickness (also designated h in technical references)

Variants and dimensional data

Tabulated commercial series M2-M60. Nominal M identifies the bolt; bore, outside diameter and thickness are separate dimensions. Other dimensions on request.

Dimensions in mm. Identification drawing, not a manufacturing drawing.

M	d1	d2	s
2	2.2	5	0.3
2.5	2.7	6	0.5
3	3.2	7	0.5
4	4.3	9	0.8
5	5.3	10	1
6	6.4	12	1.6
8	8.4	16	1.6
10	10.5	20	2
12	13	24	2.5
14	15	28	2.5
16	17	30	3
18	19	34	3
20	21	37	3
22	23	39	3
24	25	44	4
27	28	50	4
30	31	56	4
33	34	60	5
36	37	66	5
39	40	72	6
42	43	78	7
45	46	85	7
48	50	92	8
52	54	98	8
56	58	105	9
60	62	110	9

The commercial version described here has 100 HV hardness. Bore and outside diameter follow catalogue dimensions; complete tolerances require confirmation against the supply specification. Similar geometry does not give the washer a 200 HV or 300 HV hardness class.

Table dimensions refer to the stated execution. DIN/UNI, polymer and special variants require verification of their own dimensions; they do not automatically inherit reference geometry, weight or performance.

Materials, classes, finishes and treatments

Executions are distinguished by reference, material, class and finish. DIN, ISO and UNI references do not imply dimensional equivalence or availability of every size in each material. Supply and batch documents require quotation confirmation.

Execution reference	Material	Class / hardness	Documented finishes
ISO 7089	Steel	300 HV	GEOMET 321A; Hot-dip galvanized; Plain; Zinc plated
ISO 7089	Steel	200 HV	Black zinc plated; Black zinc-nickel with sealer; GEOMET 321A; Hot-dip galvanized; Iridescent ≥8 µm; Plain; Yellow zinc plated; Zinc plated
DIN 125	Nylon (PA)	Not applicable	To be specified
ISO 7089	Stainless A4	To be specified	To be specified
DIN 125	Steel	100 HV	GEOMET 321A; Geomet 500a; Grey nickel plated with sealer
DIN 125	Stainless A2	To be specified	To be specified
DIN 125	Stainless A4	To be specified	To be specified
DIN 125 A	Steel	100 HV	Yellow zinc plated; Zinc plated
DIN 125	Brass	Not applicable	To be specified
DIN125	Brass	Not applicable	To be specified
DIN 34815 ex DIN 125	Polyamide	Not applicable	Natural colour
DIN 125 A	Stainless A5 · 1.4571	To be specified	To be specified
DIN 125 A	Duplex · 1.4462	To be specified	To be specified
DIN 125 A	Stainless HCR · 1.4529	To be specified	To be specified
DIN 125 A	Brass OT63	Not applicable	To be specified
DIN 125 A	Nylon PA66	Not applicable	To be specified

“To be specified” is a requirement not established by this selection; it does not imply class 70/80, HV hardness or an automatic finish. Steel property classes do not apply to nylon/polyamide; PA6 and PA66 are distinguished only where stated. For nuts with non-metallic inserts, the material shown is the body material.

Documentation

Document	Status
Declaration of conformity	Subject to order agreement
Material certificate	Subject to order agreement
EN 10204 2.2 test report	Subject to order agreement
EN 10204 3.1 inspection certificate	Subject to order agreement
Dimensional inspection report	Subject to order agreement
Coating report	Subject to order agreement
Other documentation	Subject to order agreement

Batch documents are not automatically included: specify your requirements in the RFQ.

ISO, DIN and UNI: key differences

DIN 125 A

DIN 125 A is a historical reference used commercially for plain washers without chamfer. This is the 100 HV steel version; it is not presented as ISO 7089.

ISO 7089:2000

Related reference with distinct hardness requirements: ISO 7089 specifies 200 HV/300 HV. Do not confuse the commercial 100 HV version with ISO conformity.

UNI 6592

Related commercial reference for plain washers. Verify the requested specification and dimensions without claiming exact normative equivalence.