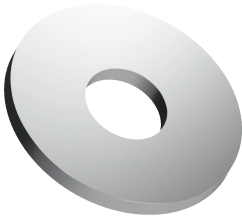


DIN 9021

Large Series Plain Washer



Standard	DIN 9021		
Product Type	Large Series Plain Washer		
Material	Stainless Steel, Carbon Steel		
Property Class	140 HV, 200 HV, 300 HV		
Surface Finish	Passivated, Plain, Zinc Plated, Hot Dip Galvanized, Dacromet		
Size Range	M2.5 - M36	Thread	ISO metric coarse pitch

BASIS OF SPECIFICATION		WHICH STANDARD GOVERNS WHAT
Dimensions to	DIN 9021:1990-03	
Carbon steel / Alloy steel mechanical properties to	ISO 898-3:2018	
Stainless steel mechanical properties to	ISO 3506-7:2024	
Product grade	A / C	

HARDNESS REQUIREMENTS		REQUIRED VALUES PER DIN 9021	
Class	Hardness	Governing property	Source
140 HV	min. 140 HV	Hardness class (upper limit per standard table)	DIN 9021
200 HV	min. 200 HV	Hardness class (upper limit per standard table)	DIN 9021
300 HV	min. 300 HV	Hardness class (upper limit per standard table)	DIN 9021

DIMENSIONAL DATA - SIZES WE SUPPLY					ALL DIMENSIONS PER THE STANDARD				
d	d1	d2	h	Approx. Mass	d	d1	d2	h	Approx. Mass
Diameter - mm	Inner Diameter - mm	Outer Diameter - mm	Washer Thickness - mm		Diameter - mm	Inner Diameter - mm	Outer Diameter - mm	Washer Thickness - mm	
M5	5.3	15	1.2	1.46	M16	17	50	3	40.9
M6	6.4	18	1.6	2.79	M20	22	60	4	76.8
M8	8.4	24	2	6.23	M24	26	72	5	139
M10	10.5	30	2.5	12.2	M30	33	92	6	273
M12	13	37	3	22.2	M36	39	110	8	522

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

Not held in stock. Available to order; minimum order quantity applies.

d Diameter - mm	d1 Inner Diameter - mm	d2 Outer Diameter - mm	h Washer Thickness - mm	Approx. Mass	d Diameter - mm	d1 Inner Diameter - mm	d2 Outer Diameter - mm	h Washer Thickness - mm	Approx. Mass
M2.5	2.7	8	0.8	0.28	M7	7.4	22	2	5.29
M3	3.2	9	0.8	0.349	M14	15	44	3	31.6
M3.5	3.7	11	0.8	0.529	M18	20	56	4	67.4
M4	4.3	12	1	0.774					

MARKING
Steel — Not mandatory on the part; required on the package

What	No head marking is specified. The standard fixes a written designation instead, and the property class or material symbol inside it comes from the referenced DIN 267 part or ISO material standard.
Where	In the written designation on the order and the certificate, not on the part
Sizes	All sizes
Clause	DIN product standards of the 1970s and 1980s, read page by page 2026-09-22, The Designation clause of the standard concerned

Stainless steel — Not mandatory on the part; required on the package

What	No head marking is specified. The standard fixes a written designation instead, and the property class or material symbol inside it comes from the referenced DIN 267 part or ISO material standard.
Where	In the written designation on the order and the certificate, not on the part
Sizes	All sizes
Clause	DIN product standards of the 1970s and 1980s, read page by page 2026-09-22, The Designation clause of the standard concerned

Table 2 of DIN 9021:1990-03 fixes hardness classes rather than a head marking, and the class is written into the designation: Washer DIN 9021 - 8,4 - 140 HV.

Steel takes 140 HV for product grade A and 100 HV for product grade C, both measured HV 10; stainless takes 140 HV. Footnote 1 makes 140 HV for grade A and 100 HV for grade C the default where existing documentation names no material or only the symbol St.

For stainless washers the steel group to DIN 267 Part 11 or the material number to DIN 17440 is added: Washer DIN 9021 - 8,4 - 140 HV - A2, or Washer DIN 9021 - 8,4 - 140 HV - 1.4306.

The standard type is product grade A up to and including nominal size 17 and grade C above it; where existing documentation specifies otherwise both grades are supplied in all sizes and the grade is written into the designation, for example Washer DIN 9021 - 20 - 140 HV - A.

Limit deviations, surface roughness and acceptance all follow DIN 522, not ISO 4759-1.

Confirm the ordered property class before production.

INSPECTION DOCUMENTS WE CAN ISSUE

EN 10204 3.1 material certificate	Can be included when agreed in the order.
Dimensional inspection report	Can be provided for the agreed inspection scope.
Certificate of conformity	Can be issued against the confirmed order requirements.
Mechanical test report	Available when the required tests are agreed before production.
Chemical analysis report	Available when the material verification scope is agreed.
Coating inspection report	Can record the coating checks agreed for the order.

REFERENCES & NOTES

Note: DIN 9021 is a withdrawn legacy standard; the current standard for this product is ISO 7093-1. This sheet is built to DIN 9021. Dimensions can differ between the two - check the recorded correspondence on our website before substituting one for the other.