

ISO 7090

Plain washers, chamfered - Normal series



Standard	ISO 7090		
Product Type	Plain washers, chamfered - Normal series		
Material	Stainless Steel, Carbon Steel		
Property Class	200 HV, 300 HV		
Surface Finish	Passivated, Plain, Zinc Plated, Hot Dip Galvanized		
Size Range	M5 - M64	Thread	ISO metric coarse pitch

BASIS OF SPECIFICATION		WHICH STANDARD GOVERNS WHAT
Dimensions to	ISO 7090:2000	
Carbon steel / Alloy steel mechanical properties to	ISO 898-3:2018	
Stainless steel mechanical properties to	ISO 3506-7:2024	
Product grade	A	

HARDNESS REQUIREMENTS		REQUIRED VALUES PER ISO 7090	
Class	Hardness	Governing property	Source
200 HV	min. 200 HV	Hardness class (upper limit per standard table)	ISO 7090
300 HV	min. 300 HV	Hardness class (upper limit per standard table)	ISO 7090

DIMENSIONAL DATA - SIZES WE SUPPLY					ALL DIMENSIONS PER THE STANDARD		
d	d1	d1 (max)	d2	d2 (min)	h	h (max)	h (min)
Diameter - mm	Inner Diameter - mm	Inner Diameter - mm	Outer Diameter - mm	Outer Diameter - mm	Washer Thickness - mm	Thickness - mm	Thickness - mm
M5	5.3	5.48	10	9.64	1	1.1	0.9
M6	6.4	6.62	12	11.57	1.6	1.8	1.4
M8	8.4	8.62	16	15.57	1.6	1.8	1.4
M10	10.5	10.77	20	19.48	2	2.2	1.8
M12	13	13.27	24	23.48	2.5	2.7	2.3
M16	17	17.27	30	29.48	3	3.3	2.7
M20	21	21.33	37	36.38	3	3.3	2.7
M24	25	25.33	44	43.38	4	4.3	3.7
M30	31	31.39	56	55.26	4	4.3	3.7
M36	37	37.62	66	64.8	5	5.6	4.4

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

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

d	d1	d1 (max)	d2	d2 (min)	h	h (max)	h (min)
Diameter - mm	Inner Diameter - mm	Inner Diameter - mm	Outer Diameter - mm	Outer Diameter - mm	Washer Thickness - mm	Thickness - mm	Thickness - mm
M14	15	15.27	28	27.48	2.5	2.7	2.3
M18	19	19.33	34	33.38	3	3.3	2.7
M22	23	23.33	39	38.38	3	3.3	2.7
M27	28	28.33	50	49.38	4	4.3	3.7
M33	34	34.62	60	58.8	5	5.6	4.4
M39	42	42.62	72	70.8	6	6.6	5.4
M42	45	45.62	78	76.8	8	9	7
M45	48	48.62	85	83.6	8	9	7
M48	52	52.74	92	90.6	8	9	7
M52	56	56.74	98	96.6	8	9	7
M56	62	62.74	105	103.6	10	11	9
M60	66	66.74	110	108.6	10	11	9
M64	70	70.74	115	113.6	10	11	9

MARKING

Carbon steel / Alloy steel Head marking to ISO 898-3:2018

Stainless steel Head marking to ISO 3506-7:2024

Marking requirements are set by the material standard named above, not by the product standard. 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: Dimensional values follow the selected execution standard. Material properties and batch test results are included only when declared or supported by the applicable certificate or test report.