

DIN 6796

Conical spring washers for bolted connections



Standard	DIN 6796		
Product Type	Conical spring washers for bolted connections		
Material	Carbon Steel		
Surface Finish	Zinc Plated, Dacromet, Hot Dip Galvanized, Plain		
Size Range	M2 - M16	Thread	ISO metric coarse pitch

BASIS OF SPECIFICATION		WHICH STANDARD GOVERNS WHAT
Dimensions edition	to be agreed	
Product grade	to be agreed	

DIMENSIONAL DATA - SIZES WE SUPPLY				ALL DIMENSIONS PER THE STANDARD	
d	d1	d2	h (min)	h (max)	s
Diameter - mm	Inner Diameter - mm	Outer Diameter - mm	Free Height - mm	Free Height - mm	Material Thickness - mm
M3	3.2	7	0.72	0.85	0.6
M4	4.3	9	1.12	1.3	1
M5	5.3	11	1.35	1.55	1.2
M6	6.4	14	1.7	2	1.5
M8	8.4	18	2.24	2.6	2
M10	10.5	23	2.8	3.2	2.5
M12	13	29	3.43	3.95	3
M16	17	39	4.58	5.25	4

FURTHER SIZES IN THIS STANDARD				ALL DIMENSIONS PER THE STANDARD	
Not held in stock. Available to order; minimum order quantity applies.					
d	d1	d2	h (min)	h (max)	s
Diameter - mm	Inner Diameter - mm	Outer Diameter - mm	Free Height - mm	Free Height - mm	Material Thickness - mm
M2	2.2	5	0.5	0.6	0.4
M2.5	2.7	6	0.61	0.72	0.5

TECHNICAL SPECIFICATIONS	
Surface Finish	Zinc Plated, Dacromet, Hot Dip Galvanized, Plain

MARKING

Steel — Required

What	The material symbol FSt (spring steel to DIN 267 Part 26) is written into the designation, not stamped as a head mark. The designation is Conical spring washer DIN 6796 - 8 - FSt
Where	In the designation; these washers carry no head marking
Sizes	All sizes
Clause	DIN 6796:1987-10, Clause 3 Technical delivery conditions and Clause 4 Designation

- Clause 3 of DIN 6796:1987-10 is two lines long, identical in form to DIN 127: DIN 267 Part 26 applies, and the material is FSt, spring steel to DIN 267 Part 26.
- Clause 4 designation: Conical spring washer DIN 6796 - 8 - FSt.
- The application limit runs the opposite way to DIN 127 and belongs on the quotation. The Scope states these washers are designed for bolt and nut assemblies involving bolts of property classes 8.8 to 10.9, and the Explanatory notes state their efficacy is greatly reduced with fasteners below class 8.8, due to indentation.
- The Scope also states they do not effectively prevent loosening under varying radial load, and are designed for short bolts predominantly subject to thrust.
- 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.