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TECHNICAL DATA SHEET

CONICAL SPRING WASHER

RELEASE DATE: 05-08-2020

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This Technical Data Sheet (TDS) applies to the following part numbers:

Size	Part Number	Batches	Description
M12	W-M12B-67-30B-96		Conical Spring Washer Black
M12	W-M12B-67-30D-96		Conical Spring Washer Zinc Flake
M16	W-M16B-67-30B-96		Conical Spring Washer Black
M16	W-M16B-67-30D-96		Conical Spring Washer Zinc Flake
M20	W-M20B-67-30B-96		Conical Spring Washer Black
M20	W-M20B-67-30D-96		Conical Spring Washer Zinc Flake
M24	W-M24B-67-30B-96		Conical Spring Washer Black
M24	W-M24B-67-30D-96		Conical Spring Washer Zinc Flake

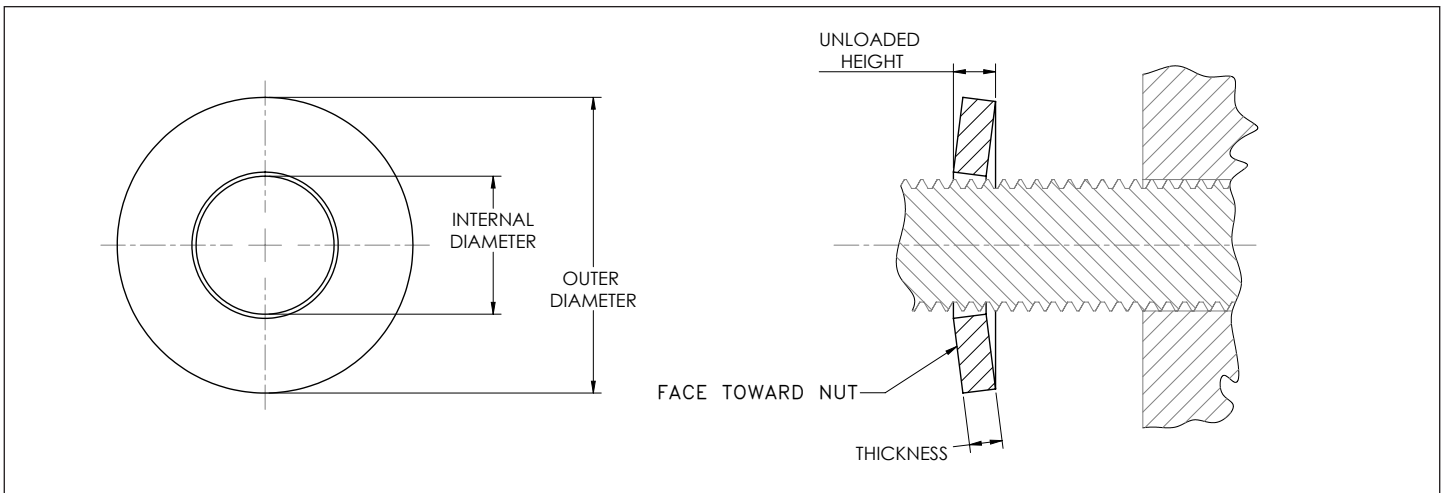
The DIN6796 Conical Spring Washer, also referred to as a Heavy Duty Safety (HDS) Washer is a Belleville washer designed to counteract non-rotational tension loss in bolted joints up to property class 10.9. Embedding/settling between surfaces in compression can cause significant tension loss almost immediately following installation. In vibrating applications, slip between the threads can occur if the tension drops below a critical value, leading to rotational self loosening. Conical spring washers help maintain tension throughout the life of the joint.

FEATURES

- Can be used with high strength property class 8.8 and 10.9 fasteners.
- Helps mitigate tension losses from events such as: Embedding, Creep, Plastic Deformation, Fretting, and Differential Thermal Expansion.
- Dimensions as per DIN 6796.
- Mechanical performance as per DIN 267-26.

IMPORTANT INFORMATION

- Always install the washer in the correct orientation.
- Angle of turn installation methods may be affected by the compression of the washer.
- Conical spring washers do not 'lock'. If the tension in the joint is insufficient to prevent slip from occurring during transverse vibration, other methods are required to prevent loosening.
- If using on other bolts or studs (class 4.6 or 4.8 etc) consult structural engineer.



SIZE	INTERNAL DIAMETER (mm)	OUTER DIAMETER (mm)	THICKNESS (mm)	UNLOADED HEIGHT Max (mm)	UNLOADED HEIGHT Min (mm)
M12	13	29	3	3.95	3.43
M16	17	39	4	5.25	5.48
M20	21	45	5	6.40	5.60
M24	25	56	6	7.75	6.77

COATINGS Black oxide or Zinc Flake
HARDNESS 420HV - 490HV
MATERIAL U 21653 (65Mn) Spring Steel

ISO 10683
 DIN 267-26
 GB/T 1222

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