

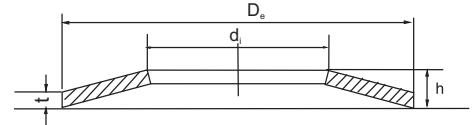
# BW metric & BI imperial sizes

## Standard Applications of Belleville washers

- Bus Bar in Transformers
- Bolting Application to avoid loosening
- Automobile & Heavy construction & Farm / Tractor equipment
- Mining & Turbine construction

## for HEAVY BOLTED SECTIONS

Disc and Belleville Inc. Stocks Belleville Washer in Imperial as well as Metric sizes. Belleville Washers also called Conical Spring Washers are made as per DIN 6796 and are designed specifically for Heavy Duty Bolted section such as Bus Bars, Transformers, Rectifiers, Heat Exchangers, Transmission etc. These washers are intended to counteract the effect of setting which results in bolt/nut assemblies working loose. They do not effectively prevent loosening of the assembly under varying radial load and are designed for use with short bolts predominantly subject to thrust.



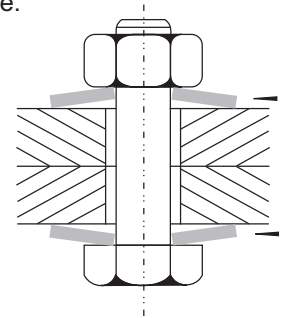
Belleville Washer are high stressed components and cannot be used for dynamic loading and infrequent varying load applications. The force given in the table below is approximate.

These Belleville Washer are made from various Carbon Steel grades. Chrome-Vanadium Steel, Stainless Steel etc.

**Quality and Testing** Disc and Belleville Inc. Belleville Washer are tested as per DIN 6796 and DIN 267 Part 26. Most thicker sizes are supplied in phosphated & oiled condition

Disc and Belleville Inc. has ready stock of all standard size of Belleville Washers in Spring Steel material. Other materials are also available on request.

Checkout our website for entire range of products



### Heavy Duty Belleville Washers As per DIN 6796 (Metric Sizes)

Part No.	Dimensions										Load Flat (N)	Nominal Bolt Size
	in inches					in mm						
	D <sub>e</sub>	d <sub>i</sub>	t	h (min)	D <sub>e</sub>	d <sub>i</sub>	t	h max	h min			
BW-052204	0.197	0.09	0.016	0.020	5	2.2	0.4	0.60	0.50	625	M 2	
BW-062705	0.236	0.11	0.020	0.024	6	2.7	0.5	0.72	0.61	945	M 2.5	
BW-073206	0.276	0.13	0.024	0.028	7	3.2	0.6	0.85	0.72	1320	M 3	
BW-083708	0.315	0.15	0.031	0.036	8	3.7	0.8	1.06	0.92	2410	M 3.5	
BW-094310	0.354	0.17	0.039	0.044	9	4.3	1.0	1.30	1.12	3770	M 4	
BW-115312	0.433	0.21	0.047	0.053	11	5.3	1.2	1.55	1.35	4580	M 5	
BW-146415	0.551	0.25	0.059	0.067	14	6.4	1.5	2.00	1.70	8590	M 6	
BW-177417	0.669	0.29	0.069	0.079	17	7.4	1.75	2.30	2.00	11300	M 7	
BW-188420	0.709	0.33	0.079	0.088	18	8.4	2.0	2.60	2.24	14900	M 8	
BW-231025	0.906	0.41	0.098	0.110	23	10.5	2.5	3.20	2.80	22100	M 10	
BW-291330	1.142	0.51	0.118	0.135	29	13	3.0	3.95	3.43	34100	M 12	
BW-351535	1.378	0.59	0.138	0.159	35	15	3.5	4.65	4.04	46000	M 14	
BW-391740	1.535	0.67	0.157	0.180	39	17	4.0	5.25	4.58	59700	M 16	
BW-421945	1.654	0.75	0.177	0.200	42	19	4.5	5.80	5.08	74400	M 18	
BW-452150	1.772	0.83	0.197	0.220	45	21	5.0	6.40	5.60	93200	M 20	
BW-492355	1.929	0.91	0.217	0.242	49	23	5.5	7.05	6.15	113700	M 22	
BW-562560	2.205	0.98	0.236	0.267	56	25	6.0	7.75	6.77	131000	M 24	
BW-602865	2.362	1.10	0.256	0.287	60	28	6.5	8.35	7.30	154000	M 27	
BW-703170	2.756	1.22	0.276	0.315	70	31	7.0	9.20	8.00	172000	M 30	