



SUPER SPRINGSTM



ABOUT SUPER SPRINGS

Super Springs is leading springs manufacturer & exporters in India having ISO 9001:2015 Certification. We have best possible quality control intrastate beside the modern manufacturing facilities, it has been the top most priority of all concerned, and to highest quality standard with highly competitive price structure, to execute orders on time and to ensure total customers satisfaction, Super Springs manufacturing team fulfills your needs with precision and accuracy whether we are making a springs or packing an order, we are committed to manufacturing excellence and to delivery your order on your time, anywhere in the world.

Our Main Products are Compression Springs, Extension Springs, Torsion Springs, Wire form Springs, Disc Springs, Ware Washer, Retaining Ring, Star Washer, Metal Clips & Sheet Metal Components.



- Disc Spring standard sizes available as per DIN 2093.
- All Sizes Raw Material always available for production.
- Coil Springs starting from 0.12 mm to 50.00 mm wire diameter.
- High temperature material like inconel, nimonic etc. available in stock.

Infrastructure

- › Total 8000 Sq. ft. of Plant Area with more than 50 Machines.
- › Production Capacity of more than 50 Tons Per Month.
- › High Temperature Aging Furnace up to 1200°C.
- › CNC & VMC Machining Centres.
- › Shot Peening and Scragging Machines.
- › In-house Tool Room.
- › Surface Technology Plant - Zinc Plating, Mechanical Zinc Coating, Electroplating, Nickel Plating, Phosphating, Powder Coating etc.
- › Automatic Spring Coiling and Grinding Machines.

Why us ?

Why Super Springs ?

1. 100% Conforming to DIN & EN Standards.
2. Disc Springs are made from a quality cold rolled material with higher tensile strength and precise thickness tolerances.
3. Our Deburring and Surface Finishing processes produce smooth and burr-free edges which reduces stresses on internal and external diameters.
4. Disc Springs are Shot Peened resulting in higher fatigue life.

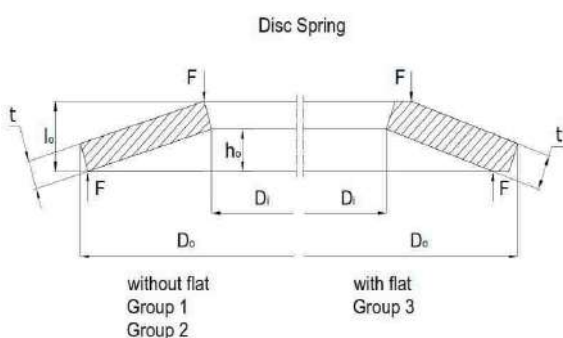
Advantages of Disc Springs

1. No Deformation or Fatigue under normal loads.
2. High Energy Storage Capacity.
3. Long Service Life.
4. Space Saving.
5. Efficient use of space and high spring force with small deflections.
6. Low Maintenance cost & Greater Security.

Product

1. Disc Spring

Disc Springs are Conical in shape and have an unique combination of high force in small space with customised deflection. Normally Disc Springs are loaded in Axial Direction. Super Springs Disc Springs offer a well-developed solution to many engineering problems.



Super Springs Disc Springs can be used as Single or arranged in Stacks. Disc Springs Stack can consist of Disc Springs either used in Series or Parallel Sets. Disc Springs are available with or without contact flats. Disc Springs are manufactured to DIN 2093.

Sizes	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS6X3.2X0.30MMXC75PH	6.0	3.2	0.30	0.45	-	1	45	0.038	84	0.075	119	0.11
DS8X3.2X0.20MMXC75PH	8.0	3.2	0.20	0.40	-	1	12	0.050	21	0.100	26	0.150
DS8X3.2X0.30MMXC75PH	8.0	3.2	0.30	0.55	-	1	46	0.063	79	0.125	104	0.188
DS8X3.2X0.40MMXC75PH	8.0	3.2	0.40	0.60	-	1	69	0.050	130	0.100	186	0.150
DS8X3.2X0.50MMXC75PH	8.0	3.2	0.50	0.70	-	1	128	0.050	246	0.100	357	0.150
DS8X4.2X0.20MMXC75PH	8.0	4.2	0.20	0.45	-	1	21	0.063	33	0.125	39	0.188
DS8X4.2X0.30MMXC75PH	8.0	4.2	0.30	0.55	-	1	52	0.063	89	0.125	118	0.188
DS8X4.2X0.40MMXC75PH	8.0	4.2	0.40	0.60	-	1	78	0.050	147	0.100	210	0.150
DS10X3.2X0.30MMXC75PH	10.0	3.2	0.30	0.65	-	1	51	0.088	82	0.175	98	0.263
DS10X3.2X0.40MMXC75PH	10.0	3.2	0.40	0.70	-	1	75	0.075	133	0.150	179	0.225
DS10X3.2X0.50MMXC75PH	10.0	3.2	0.50	0.75	-	1	104	0.063	196	0.125	279	0.188
DS10X4.2X0.40MMXC75PH	10.0	4.2	0.40	0.70	-	1	79	0.075	140	0.150	189	0.225
DS10X4.2X0.50MMXC75PH	10.0	4.2	0.50	0.75	-	1	110	0.063	206	0.125	294	0.188
DS10X4.2X0.60MMXC75PH	10.0	4.2	0.60	0.85	-	1	175	0.060	360	0.125	508	0.190
DS10X5.2X0.25MMXC75PH	10.0	5.2	0.25	0.55	-	1	31	0.075	48	0.150	58	0.225
DS10X5.2X0.40MMXC75PH	10.0	5.2	0.40	0.70	-	1	88	0.075	155	0.150	209	0.225
DS10X5.2X0.50MMXC75PH	10.0	5.2	0.50	0.75	-	1	122	0.063	228	0.125	325	0.188
DS12X4.2X0.40MMXC75PH	12.0	4.2	0.40	0.80	-	1	85	0.100	141	0.200	178	0.300
DS12X4.2X0.50MMXC75PH	12.0	4.2	0.50	0.85	-	1	116	0.088	208	0.175	284	0.263
DS12X4.2X0.60MMXC75PH	12.0	4.2	0.60	1.00	-	1	224	0.100	405	0.200	557	0.300
DS12X5.2X0.50MMXC75PH	12.0	5.2	0.50	0.90	-	1	151	0.100	263	0.200	350	0.300
DS12X5.2X0.60MMXC75PH	12.0	5.2	0.60	0.95	-	1	196	0.088	361	0.175	506	0.263
DS12X6.2X0.50MMXC75PH	12.0	6.2	0.50	0.85	-	1	134	0.088	239	0.175	326	0.263
DS12X6.2X0.60MMXC75PH	12.0	6.2	0.60	0.95	-	1	214	0.088	394	0.175	552	0.263
DS12.5X5.2X0.50MMXC75PH	12.5	5.2	0.50	0.85	-	1	111	0.088	200	0.175	272	0.263
DS12.5X6.2X0.35MMXC75PH	12.5	6.2	0.35	0.80	-	1	84	0.113	130	0.225	151	0.338
DS12.5X6.2X0.50MMXC75PH	12.5	6.2	0.50	0.85	-	1	120	0.088	215	0.175	294	0.263
DS12.5X6.2X0.70MMXC75PH	12.5	6.2	0.70	1.00	-	1	240	0.075	457	0.150	660	0.225
DS14X7.2X0.35MMXC75PH	14.0	7.2	0.35	0.80	-	1	68	0.113	106	0.225	123	0.338
DS14X7.2X0.50MMXC75PH	14.0	7.2	0.50	0.90	-	1	120	0.100	210	0.200	279	0.300
DS14X7.2X0.80MMXC75PH	14.0	7.2	0.80	1.10	-	1	284	0.075	547	0.150	797	0.225
DS15X5.2X0.40MMXC75PH	15.0	5.2	0.40	0.95	-	1	101	0.138	154	0.275	176	0.413
DS15X5.2X0.50MMXC75PH	15.0	5.2	0.50	1.00	-	1	133	0.125	221	0.250	278	0.375
DS15X5.2X0.60MMXC75PH	15.0	5.2	0.60	1.05	-	1	171	0.113	302	0.225	407	0.338
DS15X5.2X0.70MMXC75PH	15.0	5.2	0.70	1.10	-	1	214	0.100	395	0.200	555	0.300
DS15X6.2X0.50MMXC75PH	15.0	6.2	0.50	1.00	-	1	138	0.125	230	0.250	289	0.375
DS15X6.2X0.60MMXC75PH	15.0	6.2	0.60	1.05	-	1	178	0.113	314	0.225	424	0.338
DS15X6.2X0.70MMXC75PH	15.0	6.2	0.70	1.10	-	1	222	0.100	411	0.200	578	0.300
DS15X8.2X0.70MMXC75PH	15.0	8.2	0.70	1.10	-	1	256	0.100	474	0.200	666	0.300
DS15X8.2X0.80MM XC75PH	15.0	8.2	0.80	1.20	-	1	367	0.100	689	0.200	982	0.300
DS16X8.2X0.40MMXC75PH	16.0	8.2	0.40	0.90	-	1	84	0.125	131	0.250	154	0.375
DS16X8.2X0.60MMXC75PH	16.0	8.2	0.60	1.05	-	1	172	0.113	304	0.225	410	0.338

SIZES	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS16X8.2X0.70MMXC75PH	16.0	8.2	0.70	1.15	-	1	254	0.113	461	0.225	637	0.338
DS16X8.2X0.80MMXC75PH	16.0	8.2	0.80	1.20	-	1	308	0.100	579	0.200	825	0.300
DS16X8.2X0.90MMXC75PH	16.0	8.2	0.90	1.25	-	1	363	0.088	697	0.175	1013	0.263
DS18X6.2X0.40MMXC75PH	18.0	6.2	0.40	1.00	-	1	85	0.150	126	0.300	139	0.450
DS18X6.2X0.50MMXC75PH	18.0	6.2	0.50	1.10	-	1	130	0.150	206	0.300	246	0.450
DS18X6.2X0.60MMXC75PH	18.0	6.2	0.60	1.20	-	1	191	0.150	317	0.300	400	0.450
DS18X6.2X0.70MMXC75PH	18.0	6.2	0.70	1.25	-	1	236	0.138	414	0.275	553	0.413
DS18X6.2X0.80MMXC75PH	18.0	6.2	0.80	1.30	-	1	286	0.125	523	0.250	726	0.375
DS18X8.2X0.50MMXC75PH	18.0	8.2	0.50	1.10	-	1	140	0.150	222	0.300	265	0.450
DS18X8.2X0.70MMXC75PH	18.0	8.2	0.70	1.25	-	1	255	0.138	446	0.275	596	0.413
DS18X8.2X0.80MMXC75PH	18.0	8.2	0.80	1.30	-	1	309	0.125	564	0.250	783	0.375
DS18X8.2X1.00MMXC75PH	18.0	8.2	1.00	1.40	-	1	425	0.100	815	0.200	1181	0.300
DS18X9.2X0.45MMXC75PH	18.0	9.2	0.45	1.05	-	1	121	0.150	186	0.300	214	0.450
DS18X9.2X0.70MMXC75PH	18.0	9.2	0.70	1.20	-	1	233	0.125	417	0.250	566	0.375
DS18X9.2X1.00MMXC75PH	18.0	9.2	1.00	1.40	-	1	451	0.100	865	0.200	1254	0.300
DS20X8.2X0.50MMXC75PH	20.0	8.2	0.50	1.15	-	1	127	0.163	200	0.325	231	0.490
DS20X8.2X0.60MMXC75PH	20.0	8.2	0.60	1.30	-	1	214	0.175	342	0.350	412	0.525
DS20X8.2X0.70MMXC75PH	20.0	8.2	0.70	1.35	-	1	262	0.163	442	0.325	569	0.488
DS20X8.2X0.80MMXC75PH	20.0	8.2	0.80	1.40	-	1	315	0.150	557	0.300	751	0.450
DS20X8.2X0.90MMXC75PH	20.0	8.2	0.90	1.45	-	1	374	0.138	685	0.275	954	0.413
DS20X8.2X1.00MMXC75PH	20.0	8.2	1.00	1.55	-	1	494	0.138	918	0.275	1295	0.413
DS20X10.2X0.40MMXC75PH	20.0	10.2	0.40	0.90	-	1	55	0.130	84	0.250	99	0.380
DS20X10.2X0.50MMXC75PH	20.0	10.2	0.50	1.15	-	1	141	0.163	219	0.325	254	0.488
DS20X10.2X0.80MMXC75PH	20.0	10.2	0.80	1.35	-	1	304	0.138	547	0.275	748	0.413
DS20X10.2X0.90MMXC75PH	20.0	10.2	0.90	1.45	-	1	412	0.138	754	0.275	1050	0.413
DS20X10.2X1.00MMXC75PH	20.0	10.2	1.00	1.55	-	1	544	0.138	1010	0.275	1425	0.413
DS20X10.2X1.10MMX51CPH	20.0	10.2	1.10	1.55	-	1	548	0.113	1050	0.225	1521	0.338
DS20X10.2X1.25MMX51CPH	20.0	10.2	1.25	1.75	-	1	890	0.125	1708	0.250	2477	0.375
DS20X10.2X1.50MMX51CPH	20.0	10.2	1.50	1.80	-	2	857	0.075	1695	0.150	2521	0.225
DS22.5X11.2X0.60MMXC75PH	22.5	11.2	0.60	1.40	-	1	241	0.200	370	0.400	426	0.600
DS22.5X11.2X0.80MMXC75PH	22.5	11.2	0.80	1.45	-	1	306	0.163	533	0.325	708	0.488
DS22.5X11.2X1.25MMX51CPH	22.5	11.2	1.25	1.75	-	2	693	0.125	1330	0.250	1929	0.375
DS23X8.2X0.70MMXC75PH	23.0	8.2	0.70	1.50	-	1	280	0.200	448	0.400	544	0.600
DS23X8.2X0.80MMXC75PH	23.0	8.2	0.80	1.55	-	1	332	0.188	560	0.375	719	0.563
DS23X8.2X0.90MMXC75PH	23.0	8.2	0.90	1.60	-	1	391	0.175	687	0.350	919	0.525
DS23X8.2X1.00MMXC75PH	23.0	8.2	1.00	1.70	-	1	507	0.175	909	0.350	1240	0.525
DS23X10.2X0.90MMXC75PH	23.0	10.2	0.90	1.65	-	1	463	0.188	802	0.375	1058	0.563
DS23X10.2X1.00MMXC75PH	23.0	10.2	1.00	1.70	-	1	538	0.175	964	0.350	1315	0.525
DS23X10.2X1.25MMX51CPH	23.0	10.2	1.25	1.90	-	2	870	0.163	1627	0.325	2310	0.488
DS23X12.2X1.00MMXC75PH	23.0	12.2	1.00	1.60	-	1	475	0.150	872	0.300	1217	0.450
DS23X12.2X1.25MMX51CPH	23.0	12.2	1.25	1.85	-	2	864	0.150	1630	0.300	2331	0.450
DS23X12.2X1.50MMX51CPH	23.0	12.2	1.50	2.00	-	2	1159	0.125	2250	0.250	3297	0.375
DS25X10.2X1.00MMXC75PH	25.0	10.2	1.00	1.75	-	1	492	0.188	870	0.375	1172	0.563
DS25X12.2X0.70MMXC75PH	25.0	12.2	0.70	1.60	-	1	331	0.225	515	0.450	600	0.675
DS25X12.2X0.90MMXC75PH	25.0	12.2	0.90	1.60	-	1	367	0.175	644	0.350	862	0.525
DS25X12.2X1.00MMXC75PH	25.0	12.2	1.00	1.80	-	1	585	0.200	1021	0.400	1359	0.600

SIZES	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS25X12.2X1.25MMX51CPH	25.0	12.2	1.25	1.95	-	2	848	0.175	1573	0.350	2214	0.525
DS25X12.2X1.50MMX51CPH	25.0	12.2	1.50	2.05	-	2	1040	0.138	2007	0.275	2926	0.413
DS28X10.2X0.80MMXC75PH	28.0	10.2	0.80	1.75	-	1	348	0.238	553	0.475	662	0.713
DS28X10.2X1.00MMXC75PH	28.0	10.2	1.00	1.90	-	1	512	0.225	872	0.450	1130	0.675
DS28X10.2X1.25MMX51CPH	28.0	10.2	1.25	2.05	-	2	737	0.200	1339	0.400	1853	0.600
DS28X10.2X1.50MMX51CPH	28.0	10.2	1.50	2.20	-	2	1003	0.175	1899	0.350	2723	0.525
DS28X12.2X1.00MMXC51PH	28.0	12.2	1.00	1.95	-	1	590	0.238	992	0.475	1268	0.713
DS28X12.2X1.25MMX51CPH	28.0	12.2	1.25	2.10	-	2	844	0.213	1519	0.425	2083	0.638
DS28X12.2X1.50MMX51CPH	28.0	12.2	1.50	2.25	-	2	1149	0.188	2159	0.375	3077	0.563
DS28X14.2X0.80MMXC75PH	28.0	14.2	0.80	1.80	-	1	435	0.250	681	0.500	801	0.750
DS28X14.2X1.00MMXC75PH	28.0	14.2	1.00	1.80	-	1	476	0.200	832	0.400	1107	0.600
DS28X14.2X1.25MMX51CPH	28.0	14.2	1.25	2.10	-	2	907	0.213	1634	0.425	2240	0.638
DS28X14.2X1.50MMX51CPH	28.0	14.2	1.50	2.15	-	2	1033	0.163	1970	0.325	2841	0.488
DS31.5X12.2X1.00MMXC75PH	31.5	12.2	1.00	2.10	-	1	587	0.275	951	0.550	1167	0.825
DS31.5X12.2X1.25MMX51CPH	31.5	12.2	1.25	2.20	-	2	761	0.238	1343	0.475	1805	0.713
DS31.5X12.2X1.50MMX51CPH	31.5	12.2	1.50	2.35	-	2	1033	0.213	1912	0.425	2688	0.638
DS31.5X16.3X0.80MMXC75PH	31.5	16.3	0.80	1.85	-	1	384	0.263	594	0.525	687	0.788
DS31.5X16.3X1.25MMX51CPH	31.5	16.3	1.25	2.15	-	2	791	0.225	1409	0.450	1913	0.675
DS31.5X16.3X1.50MMX51CPH	31.5	16.3	1.50	2.40	-	2	1260	0.225	2314	0.450	3230	0.675
DS31.5X16.3X1.75MMX51CPH	31.5	16.3	1.75	2.45	-	2	1391	0.175	2669	0.350	3871	0.525
DS31.5X16.3X2.00MMX51CPH	31.5	16.3	2.00	2.75	-	2	2199	0.188	4239	0.375	6173	0.563
DS34X12.3X1.00MMXC75PH	34.0	12.3	1.00	2.25	-	1	637	0.313	998	0.625	1174	0.938
DS34X12.3X1.25MMX51CPH	34.0	12.3	1.25	2.35	-	2	815	0.275	1395	0.550	1818	0.825
DS34X12.3X1.50MMX51CPH	34.0	12.3	1.50	2.50	-	2	1097	0.250	1982	0.500	2725	0.750
DS34X14.3X1.25MMX51CPH	34.0	14.3	1.25	2.40	-	2	913	0.288	1546	0.575	1993	0.863
DS34X14.3X1.50MMX51CPH	34.0	14.3	1.50	2.55	-	2	1224	0.263	2192	0.525	2990	0.788
DS34X16.3X1.50MMX51CPH	34.0	16.3	1.50	2.55	-	2	1291	0.263	2313	0.525	3155	0.788
DS34X16.3X2.00MMX51CPH	34.0	16.3	2.00	2.85	-	2	2097	0.213	4003	0.425	5783	0.638
DS35.5X18.3X0.90MMXC75PH	35.5	18.3	0.90	2.05	-	1	458	0.288	712	0.575	832	0.863
DS35.5X18.3X1.25MMX51CPH	35.5	18.3	1.25	2.25	-	2	731	0.250	1277	0.500	1699	0.750
DS35.5X18.3X2.00MMX51CPH	35.5	18.3	2.00	2.80	-	2	1864	0.200	3576	0.400	5187	0.600
DS40X14.3X1.25MMX51CPH	40.0	14.3	1.25	2.65	-	2	904	0.350	1459	0.700	1780	1.050
DS40X14.3X1.50MMX51CPH	40.0	14.3	1.50	2.75	-	2	1114	0.313	1929	0.625	2545	0.938
DS40X14.3X2.00MMX51CPH	40.0	14.3	2.00	3.05	-	2	1800	0.263	3363	0.525	4769	0.788
DS40X16.3X1.50MMX51CPH	40.0	16.3	1.50	2.80	-	2	1224	0.325	2102	0.650	2749	0.975
DS40X16.3X2.00MMX51CPH	40.0	16.3	2.00	3.10	-	2	1972	0.275	3663	0.550	5169	0.825
DS40X18.3X2.00MMX51CPH	40.0	18.3	2.00	3.15	-	2	2182	0.288	4030	0.575	5656	0.863
DS40X20.4X1.00MMXC75PH	40.0	20.4	1.00	2.30	-	1	565	0.325	876	0.650	1017	0.975
DS40X20.4X1.50MMX51CPH	40.0	20.4	1.50	2.65	-	2	1109	0.288	1953	0.575	2621	0.863
DS40X20.4X2.00MMX51CPH	40.0	20.4	2.00	3.10	-	2	2175	0.275	4041	0.550	5701	0.825
DS40X20.4X2.25MMX51CPH	40.0	20.4	2.25	3.15	-	2	2336	0.225	4481	0.450	6500	0.675
DS40X20.4X2.50MMX51CPH	40.0	20.4	2.50	3.45	-	2	3351	0.238	6453	0.475	9390	0.713
DS45X22.4X1.25MMX51CPH	45.0	22.4	1.25	2.85	-	2	1041	0.400	1620	0.800	1891	1.200

SIZES	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS45X22.4X1.75MMX51CPH	45.0	22.4	1.75	3.05	-	2	1524	0.325	2701	0.650	3646	0.975
DS45X22.4X2.50MMX51CPH	45.0	22.4	2.50	3.50	-	2	2773	0.250	5320	0.500	7716	0.750
DS50X18.4X1.25MM X51CPH	50.0	18.4	1.25	2.85	-	2	757	0.400	1178	0.800	1375	1.200
DS50X18.4X1.50MMX51CPH	50.0	18.4	1.50	3.30	-	2	1379	0.450	2184	0.900	2606	1.350
DS50X18.4X2.00MMX51CPH	50.0	18.4	2.00	3.50	-	2	1918	0.375	3392	0.750	4572	1.125
DS50X18.4X2.50MX51CPH	50.0	18.4	2.50	4.10	-	2	3703	0.400	6733	0.800	9315	1.200
DS50X18.4X3.00MMX51CPH	50.0	18.4	3.00	4.40	-	2	5043	0.350	9546	0.700	13688	1.050
DS50X20.4X2.00MMX51CPH	50.0	20.4	2.00	3.50	-	2	1966	0.375	3478	0.750	4687	1.125
DS50X20.4X2.50MMX51CPH	50.0	20.4	2.50	3.85	-	2	3008	0.338	5601	0.675	7919	1.013
DS50X22.4X2.00MMX51CPH	50.0	22.4	2.00	3.60	-	2	2247	0.400	3924	0.800	5222	1.200
DS50X22.4X2.50MMX51CPH	50.0	22.4	2.50	3.90	-	2	3261	0.350	6044	0.700	8510	1.050
DS50X25.4X1.25MMX51CPH	50.0	25.4	1.25	2.85	-	2	854	0.400	1328	0.800	1550	1.200
DS50X25.4X1.50MMX51CPH	50.0	25.4	1.50	3.10	-	2	1242	0.400	2028	0.800	2512	1.200
DS50X25.4X2.00MMX51CPH	50.0	25.4	2.00	3.40	-	2	1949	0.350	3491	0.700	4762	1.050
DS50X25.4X2.25MMX51CPH	50.0	25.4	2.25	3.75	-	2	2940	0.380	5249	0.750	7241	1.130
DS50X25.4X2.50MMX51CPH	50.0	25.4	2.50	3.90	-	2	3473	0.350	6437	0.700	9063	1.050
DS50X25.4X3.00MMX51CPH	50.0	25.4	3.00	4.10	-	2	4255	0.275	8214	0.550	11976	0.825
DS56X28.5X1.50MMX51CPH	56.0	28.5	1.50	3.45	-	2	1458	0.488	2259	0.975	2622	1.463
DS56X28.5X2.00MMX51CPH	56.0	28.5	2.00	3.60	-	2	1910	0.400	3335	0.800	4438	1.200
DS56X28.5X2.50MMX51CPH	56.0	28.5	2.50	4.20	-	2	3676	0.430	6550	0.850	9004	1.280
DS56X28.5X3.00MMX51CPH	56.0	28.5	3.00	4.30	-	2	4142	0.325	7895	0.650	11388	0.975
DS60X20.5X2.00MMX51CPH	60.0	20.5	2.00	4.10	-	2	2318	0.525	3802	1.050	4730	1.575
DS60X20.5X2.50MMX51CPH	60.0	20.5	2.50	4.30	-	2	3018	0.450	5379	0.900	7302	1.350
DS60X20.5X3.00MMX51CPH	60.0	20.5	3.00	4.70	-	2	4449	0.425	8234	0.850	11577	1.275
DS60X25.5X2.50MMX51CPH	60.0	25.5	2.50	4.40	-	2	3447	0.475	6081	0.950	8175	1.425
DS60X25.5X3.00MMX51CPH	60.0	25.5	3.00	4.65	-	2	4495	0.413	8352	0.825	11784	1.238
DS60X30.5X2.50MMX51CPH	60.0	30.5	2.50	4.30	-	2	3447	0.450	6145	0.900	8342	1.350
DS60X30.5X2.75MMX51CPH	60.0	30.5	2.75	4.75	-	2	5125	0.500	9117	1.000	12360	1.500
DS60X30.5X3.00MMX51CPH	60.0	30.5	3.00	4.70	-	2	5083	0.425	9407	0.850	13226	1.275
DS60X30.5X3.50MMX51CPH	60.0	30.5	3.50	5.00	-	2	6591	0.375	12574	0.750	18153	1.125
DS63X31X1.80MMX51CPH	63.0	31.0	1.80	4.15	-	2	2364	0.588	3658	1.175	4238	1.763
DS63X31X2.50MMX51CPH	63.0	31.0	2.50	4.25	-	2	2942	0.438	5270	0.875	7189	1.313
DS63X31X3.00MMX51CPH	63.0	31.0	3.00	4.80	-	2	4891	0.450	8981	0.900	12536	1.350
DS63X31X3.50MMX51CPH	63.0	31.0	3.50	4.90	-	2	5399	0.350	10359	0.700	15025	1.050
DS70X25.5X2.00MMX51CPH	70.0	25.5	2.00	4.50	-	2	2408	0.625	3771	1.250	4437	1.875
DS70X30.5X2.50MMX51CPH	70.0	30.5	2.50	4.90	-	2	3755	0.600	6297	1.200	8031	1.800
DS70X30.5X3.00MMX51CPH	70.0	30.5	3.00	5.10	-	2	4676	0.525	8376	1.050	11426	1.575
DS70X35.5X3.00MMX51CPH	70.0	35.5	3.00	5.10	-	2	5028	0.525	9007	1.050	12287	1.575
DS70X35.5X3.50MMX51CPH	70.0	35.5	3.50	5.30	-	2	6077	0.450	11380	0.900	16180	1.350
DS70X35.5X4.00MMX51CPH	70.0	35.5	4.00	5.80	-	2	8757	0.450	16634	0.900	23923	1.350
DS70X35.5X3.75MMX51CPH	70.0	35.5	4.00	5.80	3.75	2	9167	0.450	17020	0.900	23920	1.350
DS70X40.5X4.00MMX51CPH	70.0	40.5	4.00	5.60	-	2	8391	0.400	16099	0.800	23351	1.200
DS70X40.5X3.75MMX51CPH	70.0	40.5	4.00	5.60	3.75	2	8739	0.400	16430	0.800	23350	1.200
DS70X40.5X5.00MMX51CPH	70.0	40.5	5.00	6.20	-	2	11544	0.300	22728	0.600	33672	0.900

SIZES	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS70X40.5X4.60MMX51CPH	70.0	40.5	5.00	6.20	4.60	2	11900	0.300	23070	0.600	33672	0.900
DS71X36X2.00MMX51CPH	71.0	36.0	2.00	4.60	-	2	2861	0.650	4432	1.300	5144	1.950
DS71X36X2.50MMX51CPH	71.0	36.0	2.50	4.50	-	2	2894	0.500	5054	1.000	6725	1.500
DS71X36X4.00MMX51CPH	71.0	36.0	4.00	5.60	-	2	7379	0.400	14157	0.800	20535	1.200
DS71X36X3.75MMX51CPH	71.0	36.0	4.00	5.60	3.75	2	7685	0.400	14440	0.800	20530	1.200
DS80X31X2.50MMX51CPH	80.0	31.0	2.50	5.30	-	2	3678	0.700	5933	1.400	7239	2.100
DS80X31X3.00MMX51CPH	80.0	31.0	3.00	5.50	-	2	4531	0.625	7847	1.250	10352	1.875
DS80X31X4.00MMX51CPH	80.0	31.0	4.00	6.10	-	2	7319	0.525	13677	1.050	19394	1.575
DS80X31X3.75MMX51CPH	80.0	31.0	4.00	6.10	3.75	2	7783	0.525	14050	1.050	19440	1.580
DS80X36X3.00MMX51CPH	80.0	36.0	3.00	5.70	-	2	5401	0.675	9196	1.350	11919	2.025
DS80X36X4.00MMX51CPH	80.0	36.0	4.00	6.20	-	2	8163	0.550	15168	1.100	21400	1.650
DS80X36X3.75MMX51CPH	80.0	36.0	4.00	6.20	3.75	2	8626	0.550	15600	1.100	21400	1.650
DS80X41X2.25MMX51CPH	80.0	41.0	2.25	5.20	-	2	3698	0.738	5715	1.475	6613	2.213
DS80X41X3.00MMX51CPH	80.0	41.0	3.00	5.30	-	2	4450	0.575	7838	1.150	10518	1.725
DS80X41X4.00MMX51CPH	80.0	41.0	4.00	6.20	-	2	8726	0.550	16213	1.100	22874	1.650
DS80X41X3.75MMX51CPH	80.0	41.0	4.00	6.20	3.75	2	9220	0.550	16670	1.100	22874	1.650
DS80X41X5.00MMX51CPH	80.0	41.0	5.00	6.70	-	2	11821	0.425	22928	0.850	33559	1.275
DS80X41X4.70MMX51CPH	80.0	41.0	5.00	6.70	4.70	2	12350	0.425	23300	0.850	33682	1.280
DS90X46X2.50MMX51CPH	90.0	46.0	2.50	5.70	-	2	4232	0.800	6585	1.600	7684	2.400
DS90X46X3.50MMX51CPH	90.0	46.0	3.50	6.00	-	2	5836	0.625	10416	1.250	14161	1.875
DS90X46X5.00MMX51CPH	90.0	46.0	5.00	7.00	-	2	11267	0.500	21617	1.000	31354	1.500
DS90X46X4.70MMX51CPH	90.0	46.0	5.00	7.00	4.70	2	11710	0.500	22040	1.000	31354	1.500
DS100X41X4.00MMX51CPH	100.0	41.0	4.00	7.20	-	2	8714	0.800	15219	1.600	20251	2.400
DS100X41X3.75MMX51CPH	100.0	41.0	4.00	7.20	3.75	2	9345	0.800	15800	1.600	20251	2.400
DS100X41X5.00MMX51CPH	100.0	41.0	5.00	7.75	-	2	12345	0.688	22937	1.375	32361	2.063
DS100X41X4.75MMX51CPH	100.0	41.0	5.00	7.75	4.75	2	12940	0.688	23520	1.375	32328	2.060
DS100X51X2.70MMX51CPH	100.0	51.0	2.70	6.20	-	2	4779	0.875	7410	1.750	8609	2.625
DS100X51X3.50MMX51CPH	100.0	51.0	3.50	6.30	-	2	5624	0.700	9823	1.400	13070	2.100
DS100X51X4.00MMX51CPH	100.0	51.0	4.00	7.00	-	2	8673	0.750	15341	1.500	20674	2.250
DS100X51X3.75MMX51CPH	100.0	51.0	4.00	7.00	3.75	2	9282	0.750	15910	1.500	20674	2.250
DS100X51X5.00MMX51CPH	100.0	51.0	5.00	7.80	-	2	13924	0.700	25810	1.400	36339	2.100
DS100X51X4.75MMX51CPH	100.0	51.0	5.00	7.80	4.75	2	14550	0.700	26400	1.400	36340	2.100
DS100X51X6.00MMX51CPH	100.0	51.0	6.00	8.20	-	2	17061	0.550	32937	1.100	48022	1.650
DS100X51X5.60MMX51CPH	100.0	51.0	6.00	8.20	5.60	2	17750	0.550	33590	1.100	48020	1.650
DS112X57X3.00MMX51CPH	112.0	57.0	3.00	6.90	-	2	5834	0.975	9038	1.950	10489	2.925
DS112X57X4.00MMX51CPH	112.0	57.0	4.00	7.20	-	2	7639	0.800	13341	1.600	17752	2.400
DS112X57X3.75MMX51CPH	112.0	57.0	4.00	7.20	3.75	2	8192	0.800	13850	1.600	17752	2.400
DS112X57X6.00MMX51CPH	112.0	57.0	6.00	8.50	-	2	15800	0.625	30215	1.250	43707	1.875
DS112X57X5.60MMX51CPH	112.0	57.0	6.00	8.50	5.60	2	16660	0.625	30910	1.250	43800	1.880
DS125X41X4.00MMX51CPH	125.0	41.0	4.00	8.20	-	2	8501	1.050	13943	2.100	17346	3.150
DS125X41X3.75MMX51CPH	125.0	41.0	4.00	8.20	3.75	2	9146	1.050	14540	2.100	17350	3.150
DS125X51X4.00MMX51CPH	125.0	51.0	4.00	8.50	-	2	10096	1.125	16265	2.250	19817	3.375
DS125X51X3.75MMX51CPH	125.0	51.0	4.00	8.50	3.75	2	10890	1.125	16970	2.250	19820	3.380
DS125X51X5.00MMX51CPH	125.0	51.0	5.00	8.90	-	2	13063	0.975	22931	1.950	30669	2.925
DS125X51X4.70MMX51CPH	125.0	51.0	5.00	8.90	4.70	2	14020	0.975	23760	1.950	30700	2.930
DS125X51X6.00MMX51CPH	125.0	51.0	6.00	9.40	-	2	17027	0.850	31514	1.700	44307	2.550
DS125X51X5.60MMX51CPH	125.0	51.0	6.00	9.40	5.60	2	18090	0.850	32500	1.700	44310	2.550

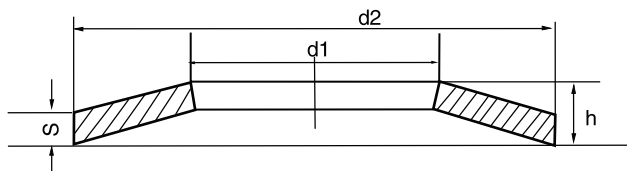
SIZES	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS125X61X5.00MMX51CPH	125.0	61.0	5.00	9.00	-	2	14615	1.000	25526	2.000	33965	3.000
DS125X61X4.70MMX51CPH	125.0	61.0	5.00	9.00	4.70	2	15630	1.000	26470	2.000	33965	3.000
DS125X61X6.00MMX51CPH	125.0	61.0	6.00	9.60	-	2	19789	0.900	36336	1.800	50722	2.700
DS125X61X5.60MMX51CPH	125.0	61.0	6.00	9.60	5.60	2	21080	0.900	37540	1.800	50720	2.700
DS125X61X8.00MMX51CPH	125.0	61.0	8.00	10.90	-	3	34434	0.725	65305	1.450	93577	2.175
DS125X61X7.50MMX51CPH	125.0	61.0	8.00	10.90	7.50	3	34434	0.725	65305	1.450	93577	2.175
DS125X64X3.50MMX51CPH	125.0	64.0	3.50	8.00	-	2	8514	1.125	13231	2.250	15416	3.375
DS125X64X5.00MMX51CPH	125.0	64.0	5.00	8.50	-	2	12238	0.875	21924	1.750	29908	2.625
DS125X64X4.70MMX51CPH	125.0	64.0	5.00	8.50	4.70	2	13090	0.875	22660	1.750	29940	2.630
DS125X64X6.00MMX51CPH	125.0	64.0	6.00	9.60	-	2	20350	0.900	37360	1.800	52150	2.700
DS125X64X5.60MMX51CPH	125.0	64.0	6.00	9.60	5.60	2	21670	0.900	38600	1.800	52150	2.700
DS125X64X7.00MMX51CPH	125.0	64.0	7.00	10.00	-	3	25530	0.750	47610	1.500	67220	2.250
DS125X64X6.55MMX51CPH	125.0	64.0	7.00	10.00	6.55	3	25530	0.750	47610	1.500	67220	2.250
DS125X64X8.00MMX51CPH	125.0	64.0	8.00	10.60	-	3	31118	0.650	59520	1.300	85926	1.950
DS125X64X7.50MMX51CPH	125.0	64.0	8.00	10.60	7.50	3	31118	0.650	59520	1.300	85926	1.950
DS125X71X6.00MMX51CPH	125.0	71.0	6.00	9.30	-	2	19538	0.825	36302	1.650	51304	2.475
DS125X71X5.60MMX51CPH	125.0	71.0	6.00	9.30	5.60	2	20840	0.830	37410	1.650	51290	2.480
DS125X71X8.00MMX51CPH	125.0	71.0	8.00	10.40	-	3	30867	0.600	59149	1.200	85494	1.800
DS125X71X7.40MMX51CPH	125.0	71.0	8.00	10.40	7.40	3	30867	0.600	59149	1.200	85494	1.800
DS125X71X10.00MMX51CPH	125.0	71.0	10.00	11.80	-	3	42963	0.450	84219	0.900	124124	1.350
DS125X71X9.20MMX51CPH	125.0	71.0	10.00	11.80	9.20	3	42963	0.450	84219	0.900	124124	1.350
DS140X72X3.80MMX51CPH	140.0	72.0	3.80	8.70	-	2	9514	1.225	14773	2.450	17195	3.675
DS140X72X5.00MMX51CPH	140.0	72.0	5.00	9.00	-	2	12014	1.000	20982	2.000	27920	3.000
DS140X72X4.70MMX51CPH	140.0	72.0	5.00	9.00	4.70	2	12850	1.000	21760	2.000	27920	3.000
DS140X72X8.00MMX51CPH	140.0	72.0	8.00	11.20	-	3	31903	0.800	59967	1.600	85251	2.400
DS140X72X7.50MMX51CPH	140.0	72.0	8.00	11.20	7.50	3	31903	0.800	59967	1.600	85251	2.400
DS150X61X5.00MMX51CPH	150.0	61.0	5.00	10.30	-	2	15292	1.325	25021	2.650	31041	3.975
DS150X61X4.80MMX51CPH	150.0	61.0	5.00	10.30	4.80	2	16080	1.325	25710	2.650	31059	3.980
DS150X61X6.00MMX51CPH	150.0	61.0	6.00	10.80	-	2	19560	1.200	34161	2.400	45456	3.600
DS150X61X5.80MMX51CPH	150.0	61.0	6.00	10.80	5.80	2	20300	1.200	34850	2.400	45456	3.600
DS150X71X6.00MMX51CPH	150.0	71.0	6.00	10.80	-	2	20721	1.200	36189	2.400	48155	3.600
DS150X71X5.65MMX51CPH	150.0	71.0	6.00	10.80	5.65	2	22120	1.200	37490	2.400	48155	3.600
DS150X71X8.00MMX51CPH	150.0	71.0	8.00	12.00	-	3	35296	1.000	64684	2.000	89851	3.000
DS150X71X7.50MMX51CPH	150.0	71.0	8.00	12.00	7.50	3	35296	1.000	64684	2.000	89851	3.000
DS150X81X8.00MMX51CPH	150.0	81.0	8.00	11.70	-	3	34518	0.925	63877	1.850	89532	2.775
DS150X81X7.50MMX51CPH	150.0	81.0	8.00	11.70	7.50	3	34518	0.925	63877	1.850	89532	2.775
DS150X81X10.00MMX51CPH	150.0	81.0	10.00	13.00	-	3	50088	0.750	96121	1.500	139128	2.250
DS150X81X9.30MMX51CPH	150.0	81.0	10.00	13.00	9.30	3	50088	0.750	96121	1.500	139128	2.250
DS160X82X4.30MMX51CPH	160.0	82.0	4.30	9.90	-	2	12162	1.400	18832	2.800	21843	4.200
DS160X82X6.00MMX51CPH	160.0	82.0	6.00	10.50	-	2	17203	1.125	30431	2.250	41008	3.375
DS160X82X5.60MMX51CPH	160.0	82.0	6.00	10.50	5.60	2	18570	1.125	31630	2.250	41040	3.380
DS160X82X10.00MMX51CPH	160.0	82.0	10.00	13.50	-	3	50547	0.875	96216	1.750	138331	2.625
DS160X82X9.40MMX51CPH	160.0	82.0	10.00	13.50	9.40	3	50547	0.875	96216	1.750	138331	2.625
DS180X92X4.80MMX51CPH	180.0	92.0	4.80	11.00	-	2	14646	1.550	22731	3.100	26442	4.650
DS180X92X6.00MMX51CPH	180.0	92.0	6.00	11.10	-	2	16558	1.275	28552	2.550	37502	3.825
DS180X92X5.60MMX51CPH	180.0	92.0	6.00	11.10	5.60	2	17920	1.275	29770	2.550	37530	3.830
DS180X92X10.00MMX51CPH	180.0	92.0	10.00	14.00	-	3	46850	1.000	88141	2.000	125417	3.000
DS180X92X9.40MMX51CPH	180.0	92.0	10.00	14.00	9.40	3	46850	1.000	88141	2.000	125417	3.000
DS180X92X13.00MMX51CPH	180.0	92.0	13.00	16.50	-	3	85040	0.880	163400	1.750	238300	2.630
DS180X92X12.10MMX51CPH	180.0	92.0	13.00	16.50	12.10	3	85040	0.880	163400	1.750	238300	2.630

SIZES	Dimensions											
	D _e (mm)	D _i (mm)	t (mm)	l _o (mm)	t' (mm)	Group	0.25 ho		0.50 ho		0.75 ho	
							F (N)	S (mm)	F (N)	S (mm)	F (N)	S (mm)
DS200X82X8.00MMX51CPH	200.0	82.0	8.00	14.20	-	3	35029	1.550	60013	3.100	78034	4.650
DS200X82X7.60MMX51CPH	200.0	82.0	8.00	14.20	7.60	3	35029	1.550	60013	3.100	78034	4.650
DS200X82X10.00MMX51CPH	200.0	82.0	10.00	15.50	-	3	51105	1.375	93357	2.750	129445	4.125
DS200X82X9.60MMX51CPH	200.0	82.0	10.00	15.50	9.60	3	51105	1.375	93357	2.750	129445	4.125
DS200X82X12.00MMX51CPH	200.0	82.0	12.00	16.60	-	3	66924	1.150	127191	2.300	182737	3.450
DS200X82X11.50MMX51CPH	200.0	82.0	12.00	16.60	11.50	3	66924	1.150	127191	2.300	182737	3.450
DS200X92X10.00MMX51CPH	200.0	92.0	10.00	15.60	-	3	55136	1.400	100014	2.800	137688	4.200
DS200X92X9.50MMX51CPH	200.0	92.0	10.00	15.60	9.50	3	55136	1.400	100014	2.800	137688	4.200
DS200X92X12.00MMX51CPH	200.0	92.0	12.00	16.80	-	3	73913	1.200	139548	2.400	199269	3.600
DS200X92X11.40MMX51CPH	200.0	92.0	12.00	16.80	11.40	3	73913	1.200	139548	2.400	199269	3.600
DS200X92X14.00MMX51CPH	200.0	92.0	14.00	18.10	-	3	95633	1.025	184092	2.050	267227	3.075
DS200X92X13.10MMX51CPH	200.0	92.0	14.00	18.10	13.10	3	95633	1.025	184092	2.050	267227	3.075
DS200X102X5.50MMX51CPH	200.0	102.0	5.50	12.50	-	2	19817	1.750	30882	3.500	36111	5.250
DS200X102X8.00MMX51CPH	200.0	102.0	8.00	13.60	-	3	33367	1.400	57955	2.800	76378	4.200
DS200X102X7.50MMX51CPH	200.0	102.0	8.00	13.60	7.50	3	33367	1.400	57955	2.800	76378	4.200
DS200X102X10.00MMX51CPH	200.0	102.0	10.00	15.60	-	3	58757	1.400	106099	2.800	145357	4.200
DS200X102X9.40MMX51CPH	200.0	102.0	10.00	15.60	9.40	3	58757	1.400	106099	2.800	145357	4.200
DS200X102X12.00MMX51CPH	200.0	102.0	12.00	16.20	-	3	66983	1.050	127401	2.100	183020	3.150
DS200X102X11.25MMX51CPH	200.0	102.0	12.00	16.20	11.25	3	66983	1.050	127401	2.100	183020	3.150
DS200X102X14.00MMX51CPH	200.0	102.0	14.00	18.20	-	3	103781	1.050	199476	2.100	289181	3.150
DS200X102X13.10MMX51CPH	200.0	102.0	14.00	18.20	13.10	3	103781	1.050	199476	2.100	289181	3.150
DS200X112X12.00MMX51CPH	200.0	112.0	12.00	16.20	-	3	72257	1.050	136873	2.100	195830	3.150
DS200X112X11.10MMX51CPH	200.0	112.0	12.00	16.20	11.10	3	72257	1.050	136873	2.100	195830	3.150
DS200X112X14.00MMX51CPH	200.0	112.0	14.00	17.50	-	3	91033	0.875	176156	1.750	256758	2.625
DS200X112X12.90MMX51CPH	200.0	112.0	14.00	17.50	12.90	3	91033	0.875	176156	1.750	256758	2.625
DS200X112X16.00MMX51CPH	200.0	112.0	16.00	18.80	-	3	105268	0.700	206697	1.400	305100	2.100
DS200X112X14.80MMX51CPH	200.0	112.0	16.00	18.80	14.80	3	105268	0.700	206697	1.400	305100	2.100
DS225X112X6.00MMX51CPH	225.0	112.0	6.00	13.60	-	2	25820	1.900	39660	3.800	45500	5.700
DS225X112X6.50MMX51CPH	225.0	112.0	6.50	13.60	-	3	23582	1.775	37417	3.550	44580	5.325
DS225X112X6.20MMX51CPH	225.0	112.0	6.50	13.60	6.20	3	23582	1.775	37417	3.550	44580	5.325
DS225X112X8.00MMX51CPH	225.0	112.0	8.00	14.50	-	3	32870	1.625	55412	3.250	70749	4.875
DS225X112X7.50MMX51CPH	225.0	112.0	8.00	14.50	7.50	3	32870	1.625	55412	3.250	70749	4.875
DS225X112X12.00MMX51CPH	225.0	112.0	12.00	17.00	-	3	64497	1.250	120738	2.500	171016	3.750
DS225X112X11.25MMX51CPH	225.0	112.0	12.00	17.00	11.25	3	64497	1.250	120738	2.500	171016	3.750
DS225X112X16.00MMX51CPH	225.0	112.0	16.00	20.50	-	3	128500	1.130	247100	2.250	360100	3.380
DS225X112X15.00MMX51CPH	225.0	112.0	16.00	20.50	15.00	3	128500	1.130	247100	2.250	360100	3.380
DS250X102X10.00MMX51CPH	250.0	102.0	10.00	18.00	-	3	56867	2.000	97282	4.000	126387	6.000
DS250X102X9.60MMX51CPH	250.0	102.0	10.00	18.00	9.60	3	56867	2.000	97282	4.000	126387	6.000
DS250X102X12.00MMX51CPH	250.0	102.0	12.00	19.00	-	3	73563	1.750	133131	3.500	182962	5.250
DS250X102X11.50MMX51CPH	250.0	102.0	12.00	19.00	11.50	3	73563	1.750	133131	3.500	182962	5.250
DS250X127X6.50MMX51CPH	250.0	127.0	6.50	14.80	-	3	29700	2.080	45420	4.150	51970	6.230
DS250X127X7.00MMX51CPH	250.0	127.0	7.00	14.80	-	3	26895	1.950	42527	3.900	50466	5.850
DS250X127X6.70MMX51CPH	250.0	127.0	7.00	14.80	6.70	3	26895	1.950	42527	3.900	50466	5.850
DS250X127X10.00MMX51CPH	250.0	127.0	10.00	17.00	-	3	51871	1.750	90206	3.500	119053	5.250
DS250X127X9.40MMX51CPH	250.0	127.0	10.00	17.00	9.40	3	51871	1.750	90206	3.500	119053	5.250
DS250X127X12.00MMX51CPH	250.0	127.0	12.00	19.30	-	3	87633	1.825	156021	3.650	210806	5.475
DS250X127X11.25MMX51CPH	250.0	127.0	12.00	19.30	11.25	3	87633	1.825	156021	3.650	210806	5.475
DS250X127X14.00MMX51CPH	250.0	127.0	14.00	19.60	-	3	93239	1.400	175145	2.800	248828	4.200
DS250X127X13.10MMX51CPH	250.0	127.0	14.00	19.60	13.10	3	93239	1.400	175145	2.800	248828	4.200
DS250X127X16.00MMX51CPH	250.0	127.0	16.00	21.80	-	3	140941	1.450	267295	2.900	383017	4.350
DS250X127X15.00MMX51CPH	250.0	127.0	16.00	21.80	15.00	3	140941	1.450	267295	2.900	383017	4.350

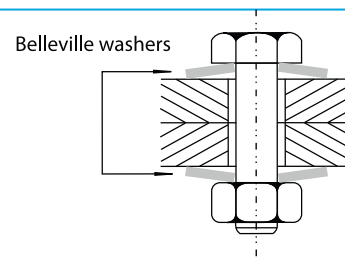
Belleville Washer

Belleville Washers are manufactured in Imperial as well as Metric sizes. Belleville Washers, also called Conical Spring Washers are manufactured as per DIN 6796 and DIN 6908 Standards. Super Springs Belleville Washers are designed specifically for Heavy Duty Bolted Section such as Bus Bars, Transformers, Rectifiers, Heat Exchangers, Transmissions etc. in of Belleville Washers are high stressed components and cannot be used for Dynamic Loading and Infrequent Varying Load Applications.

Super Springs has ready Stock of all Standard Sizes of Belleville Washers in High Carbon Steel, Stainless Steel 300 series, Inconel, 17-7 PH etc. with a variety of surface finishes.



Belleville Washer DIN 6796



Application of Belleville Washer

Dimension Table for Belleville Washer Din 6796

Size	Nominal Bolt Size (mm)	Outer Diameter d2	Inner Diameter d1	Thickness s (mm)	h max (mm)	h min after permanent set Test (mm)	Flattening Force N	Residual Spring Force N
BW5X2.2X0.40MMXC75PH	2.0	5.0	2.2	0.40	0.60	0.50	920	-
BW6X2.7X0.50MMXC75PH	2.5	6.0	2.7	0.50	0.72	0.61	1540	-
BW7X3.2X0.60MMXC75PH	3.0	7.0	3.2	0.60	0.85	0.72	2350	-
BW8X3.7X0.80MMXC75PH	3.5	8.0	3.7	0.80	1.06	0.92	3160	-
BW9X4.3X1.00MMXC75PH	4.0	9.0	4.3	1.00	1.30	1.12	4050	1400
BW11X5.3X1.20MMXC75PH	5.0	11.0	5.3	1.20	1.55	1.35	6700	2300
BW14X6.4X1.50MMXC75PH	6.0	14.0	6.4	1.50	2.00	1.70	9400	4200
BW17X7.4X1.75MMXC75PH	7.0	17.0	7.4	1.75	2.30	2.00	13700	6200
BW18X8.4X2.00MMXC75PH	8.0	18.0	8.4	2.00	2.60	2.24	17200	7700
BW23X10.5X2.50MMXC75PH	10.0	23.0	10.5	2.50	3.20	2.80	27500	12400
BW29X13X3.00MMXC75PH	12.0	29.0	13.0	3.00	3.95	3.43	40000	18000
BW35X15X3.50MMXC75PH	14.0	35.0	15.0	3.50	4.65	4.04	55000	25000
BW39X17X4.00MMX51CPH	16.0	39.0	17.0	4.00	5.25	4.58	75000	34000
BW42X19X4.50MMX51CPH	18.0	42.0	19.0	4.50	5.80	5.08	95000	57000
BW45X21X5.00MMX51CPH	20.0	45.0	21.0	5.00	6.40	5.60	122000	73000
BW49X23X5.50MMX51CPH	22.0	49.0	23.0	5.50	7.05	6.15	152000	91000
BW56X25X6.00MMX51CPH	24.0	56.0	25.0	6.00	7.75	6.77	175000	122000
BW60X28X6.50MMX51CPH	27.0	60.0	28.0	6.50	8.35	7.30	230000	161000
BW70X31X7.00MMX51CPH	30.0	70.0	31.0	7.00	9.20	8.00	280000	196000



SUPER SPRINGSTM

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Mfg. All Types of Springs & Sheet Metal Components

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