IJSPRING



E-mail:tech@ijspring.com

- Compression spring
- Tension spring
- Torsion spring
- Die spring
- Disc spring
- Wave spring
- High-temperature Alloy

Standard Component Selection
Custom Non-Standard Fabrication

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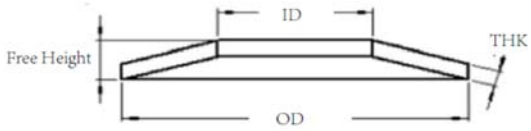




Single



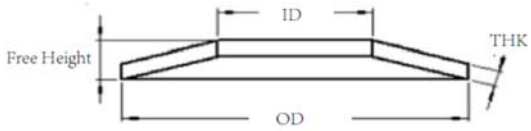
Series



Parallel

SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection HO (mm)	25% HO (mm)	load (N)	50% HO (mm)	Load (N)	75% HO (mm)	Load (N)	Weight (g)
DNA 6×3.2×0.45×0.3	6	3.2	0.3	0.45	0.15	0.038	45	0.075	84	0.113	119	0.044
DNA 8×3.2×0.4×0.2	8	3.2	0.2	0.4	0.2	0.05	12	0.1	21	0.15	26	0.064
DNA 8×3.2×0.55×0.3	8	3.2	0.3	0.55	0.25	0.063	46	0.125	79	0.188	104	0.093
DNA 8×3.2×0.6×0.4	8	3.2	0.4	0.6	0.2	0.05	69	0.1	130	0.15	186	0.126
DNA 8×4.2×0.45×0.2	8	4.2	0.2	0.45	0.25	0.063	21	0.125	33	0.188	39	0.055
DNA 8×4.2×0.55×0.3	8	4.2	0.3	0.55	0.25	0.063	52	0.125	89	0.188	118	0.08
DNA 8×4.2×0.6×0.4	8	4.2	0.4	0.6	0.2	0.05	78	0.1	147	0.15	210	0.107
DNA 10×3.2×0.65×0.3	10	3.2	0.3	0.65	0.35	0.088	51	0.175	82	0.263	98	0.157
DNA 10×3.2×0.7×0.4	10	3.2	0.4	0.7	0.3	0.075	75	0.15	133	0.225	179	0.211
DNA 10×3.2×0.75×0.5	10	3.2	0.5	0.75	0.25	0.063	104	0.125	196	0.188	279	0.266
DNA 10×4.2×0.7×0.4	10	4.2	0.4	0.7	0.3	0.075	79	0.15	140	0.225	189	0.193
DNA 10×4.2×0.75×0.5	10	4.2	0.5	0.75	0.25	0.063	110	0.125	206	0.188	294	0.243
DNA 10×5.2×0.55×0.25	10	5.2	0.25	0.55	0.3	0.075	31	0.15	48	0.225	58	0.109
DNA 10×5.2×0.7×0.4	10	5.2	0.4	0.7	0.3	0.075	88	0.15	155	0.225	209	0.17
DNA 10×5.2×0.75×0.5	10	5.2	0.5	0.75	0.25	0.063	122	0.125	228	0.188	325	0.214
DNA 12×4.2×0.8×0.4	12	4.2	0.4	0.8	0.4	0.1	85	0.2	141	0.3	178	0.297
DNA 12×4.2×0.85×0.5	12	4.2	0.5	0.85	0.35	0.088	116	0.175	208	0.263	284	0.374
DNA 12×4.2×1×0.6	12	4.2	0.6	1	0.4	0.1	224	0.2	405	0.3	557	0.45
DNA 12×5.2×0.9×0.5	12	5.2	0.5	0.9	0.4	0.1	151	0.2	263	0.3	350	0.345
DNA 12×5.2×0.95×0.6	12	5.2	0.6	0.95	0.35	0.088	196	0.175	361	0.263	506	0.415
DNA 12×6.2×0.85×0.5	12	6.2	0.5	0.85	0.35	0.088	134	0.175	239	0.263	326	0.31
DNA 12×6.2×0.95×0.6	12	6.2	0.6	0.95	0.35	0.088	214	0.175	394	0.263	552	0.373
DNA 12.5×5.2×0.85×0.5	12.5	5.2	0.5	0.85	0.35	0.088	111	0.175	200	0.263	272	0.297
DNA 12.5×6.2×0.8×0.35	12.5	6.2	0.35	0.8	0.45	0.113	84	0.225	130	0.338	151	0.374
DNA 12.5×6.2×0.85×0.5	12.5	6.2	0.5	0.85	0.35	0.088	120	0.175	215	0.263	294	0.45
DNA 12.5×6.2×1×0.7	12.5	6.2	0.7	1	0.3	0.075	240	0.15	457	0.225	660	0.345
DNA 14×7.2×0.8×0.35	14	7.2	0.35	0.8	0.45	0.113	68	0.225	106	0.338	123	0.415
DNA 14×7.2×0.9×0.5	14	7.2	0.5	0.9	0.4	0.1	120	0.2	210	0.3	279	0.31
DNA 14×7.2×1.1×0.8	14	7.2	0.8	1.1	0.3	0.075	284	0.15	547	0.225	797	0.676
DNA 15×5.2×0.95×0.4	15	5.2	0.4	0.95	0.55	0.138	101	0.275	154	0.413	176	0.468
DNA 15×5.2×1×0.5	15	5.2	0.5	1	0.5	0.125	133	0.25	221	0.375	278	0.588
DNA 15×5.2×1.05×0.6	15	5.2	0.6	1.05	0.45	0.113	171	0.225	302	0.338	407	0.708
DNA 15×5.2×1.1×0.7	15	5.2	0.7	1.1	0.4	0.1	214	0.2	395	0.3	555	0.828
DNA 15×6.2×1×0.5	15	6.2	0.5	1	0.5	0.125	138	0.25	230	0.375	289	0.553
DNA 15×6.2×1.05×0.6	15	6.2	0.6	1.05	0.45	0.113	178	0.225	314	0.338	424	0.665
DNA 15×6.2×1.1×0.7	15	6.2	0.7	1.1	0.4	0.1	222	0.2	411	0.3	578	0.778
DNA 15×8.2×1.1×0.7	15	8.2	0.7	1.1	0.4	0.1	256	0.2	474	0.3	666	0.654
DNA 15×8.2×1.2×0.8	15	8.2	0.8	1.2	0.4	0.1	367	0.2	689	0.3	982	0.74
DNA 16×8.2×0.9×0.4	16	8.2	0.4	0.9	0.5	0.125	84	0.25	131	0.375	154	0.444
DNA 16×8.2×1.05×0.6	16	8.2	0.6	1.05	0.45	0.113	172	0.225	304	0.338	410	0.672

OD:Outer Diameter
ID:Inner Diameter
THK:Thickness
HO;Max Deflection=Free Height - THK





SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 16×8.2×1.15×0.7	16	8.2	0.7	1.15	0.45	0.113	254	0.225	461	0.338	637	0.786
DNA 16×8.2×1.2×0.8	16	8.2	0.8	1.2	0.4	0.1	308	0.2	579	0.3	825	0.888
DNA 16×8.2×1.25×0.9	16	8.2	0.9	1.25	0.35	0.088	363	0.175	697	0.263	1013	1.002
DNA 18×6.2×1×0.4	18	6.2	0.4	1	0.6	0.15	85	0.3	126	0.45	139	0.677
DNA 18×6.2×1.1×0.5	18	6.2	0.5	1.1	0.6	0.15	130	0.3	206	0.45	246	0.85
DNA 18×6.2×1.2×0.6	18	6.2	0.6	1.2	0.6	0.15	191	0.3	317	0.45	400	1.024
DNA 18×6.2×1.25×0.7	18	6.2	0.7	1.25	0.55	0.138	236	0.275	414	0.413	553	1.197
DNA 18×6.2×1.3×0.8	18	6.2	0.8	1.3	0.5	0.125	286	0.25	523	0.375	726	1.353
DNA 18×8.2×1.1×0.5	18	8.2	0.5	1.1	0.6	0.15	140	0.3	222	0.45	265	0.762
DNA 18×8.2×1.25×0.7	18	8.2	0.7	1.25	0.55	0.138	255	0.275	446	0.413	596	1.073
DNA 18×8.2×1.3×0.8	18	8.2	0.8	1.3	0.5	0.125	309	0.25	564	0.375	783	1.213
DNA 18×8.2×1.4×1	18	8.2	1	1.4	0.4	0.1	425	0.2	815	0.3	1181	1.524
DNA 18×9.2×1.05×0.45	18	9.2	0.45	1.05	0.6	0.15	121	0.3	186	0.45	214	0.651
DNA 18×9.2×1.2×0.7	18	9.2	0.7	1.2	0.5	0.125	233	0.25	417	0.375	566	0.999
DNA 18×9.2×1.4×1	18	9.2	1	1.4	0.4	0.1	451	0.2	865	0.3	1254	1.418
DNA 20×8.2×1.3×0.6	20	8.2	0.6	1.3	0.7	0.175	214	0.35	342	0.525	412	1.191
DNA 20×8.2×1.35×0.7	20	8.2	0.7	1.35	0.65	0.163	262	0.325	442	0.488	569	1.393
DNA 20×8.2×1.4×0.8	20	8.2	0.8	1.4	0.6	0.15	315	0.3	557	0.45	751	1.574
DNA 20×8.2×1.45×0.9	20	8.2	0.9	1.45	0.55	0.138	374	0.275	685	0.413	954	1.776
DNA 20×8.2×1.55×1	20	8.2	1	1.55	0.55	0.138	494	0.275	918	0.413	1295	1.978
DNA 20×10.2×1.15×0.5	20	10.2	0.5	1.15	0.65	0.163	141	0.325	219	0.488	254	0.876
DNA 20×10.2×1.35×0.8	20	10.2	0.8	1.35	0.55	0.138	304	0.275	547	0.413	748	1.394
DNA 20×10.2×1.45×0.9	20	10.2	0.9	1.45	0.55	0.138	412	0.275	754	0.413	1050	1.573
DNA 20×10.2×1.55×1	20	10.2	1	1.55	0.45	0.113	544	0.225	1010	0.338	1425	1.752
DNA 20×10.2×1.55×1.1	20	10.2	1.1	1.55	0.45	0.113	548	0.225	1050	0.338	1521	1.913
DNA 20×10.2×1.75×1.25	20	10.2	1.25	1.75	0.5	0.125	890	0.25	1708	0.375	2477	2.181
DNA 20×10.2×1.8×1.5	20	10.2	1.5	1.8	0.3	0.075	857	0.15	1695	0.225	2521	2.61
DNA 22.5×11.2×1.4×0.6	22.5	11.2	0.6	1.4	0.8	0.2	241	0.4	370	0.6	426	1.361
DNA 22.5×11.2×1.45×0.8	22.5	11.2	0.8	1.45	0.65	0.163	306	0.325	533	0.488	708	1.799
DNA 22.5×11.2×1.75×1.25	22.5	11.2	1.25	1.75	0.5	0.125	693	0.25	1330	0.375	1929	2.814
DNA 23×8.2×1.5×0.7	23	8.2	0.7	1.5	0.8	0.2	280	0.4	448	0.6	544	1.939
DNA 23×8.2×1.55×0.8	23	8.2	0.8	1.55	0.75	0.188	332	0.375	560	0.563	719	2.192
DNA 23×8.2×1.6×0.9	23	8.2	0.9	1.6	0.7	0.175	391	0.35	687	0.525	919	2.472
DNA 23×8.2×1.7×1	23	8.2	1	1.7	0.7	0.175	507	0.35	909	0.525	1240	2.753
DNA 23×10.2×1.65×0.9	23	10.2	0.9	1.65	0.75	0.188	463	0.375	802	0.563	1058	2.27
DNA 23×10.2×1.7×1	23	10.2	1	1.7	0.7	0.175	538	0.35	964	0.525	1315	2.527
DNA 23×10.2×1.9×1.25	23	10.2	1.25	1.9	0.65	0.163	870	0.325	1627	0.488	2310	3.172
DNA 23×12.2×1.6×1	23	12.2	1	1.6	0.6	0.15	475	0.3	872	0.45	1217	2.255
DNA 23×12.2×1.85×1.25	23	12.2	1.25	1.85	0.6	0.15	864	0.3	1630	0.45	2331	2.807
DNA 23×12.2×2×1.5	23	12.2	1.5	2	0.5	0.125	1159	0.25	2250	0.375	3297	3.358

OD:Outer Diameter
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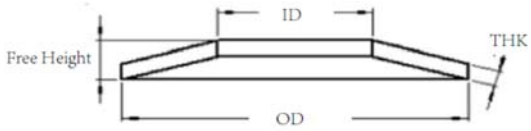
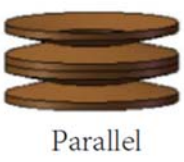
H0;Max Deflection=Free Height - THK




Single


Series


Parallel

SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 25×10.2×1.75×1	25	10.2	1	1.75	0.75	0.188	492	0.375	870	0.563	1172	3.105
DNA 25×12.2×1.6×0.7	25	12.2	0.7	1.6	0.9	0.225	331	0.45	515	0.675	600	1.994
DNA 25×12.2×1.6×0.9	25	12.2	0.9	1.6	0.7	0.175	367	0.35	644	0.525	862	2.543
DNA 25×12.2×1.8×1	25	12.2	1	1.8	0.8	0.2	585	0.4	1021	0.6	1359	2.832
DNA 25×12.2×1.95×1.25	25	12.2	1.25	1.95	0.7	0.175	848	0.35	1573	0.525	2214	3.526
DNA 25×12.2×2.05×1.5	25	12.2	1.5	2.05	0.55	0.138	1040	0.275	2007	0.413	2926	4.219
DNA 28×10.2×1.75×0.8	28	10.2	0.8	1.75	0.95	0.238	348	0.475	553	0.713	662	3.233
DNA 28×10.2×1.9×1	28	10.2	1	1.9	0.9	0.225	512	0.45	872	0.675	1130	4.062
DNA 28×10.2×2.05×1.25	28	10.2	1.25	2.05	0.8	0.2	737	0.4	1339	0.6	1853	5.057
DNA 28×10.2×2.2×1.5	28	10.2	1.5	2.2	0.7	0.175	1003	0.35	1899	0.525	2723	6.051
DNA 28×12.2×1.95×1	28	12.2	1	1.95	0.95	0.238	590	0.475	992	0.713	1268	3.789
DNA 28×12.2×2.1×1.25	28	12.2	1.25	2.1	0.85	0.213	844	0.425	1519	0.638	2083	4.717
DNA 28×12.2×2.25×1.5	28	12.2	1.5	2.25	0.75	0.188	1149	0.375	2159	0.563	3077	5.645
DNA 28×14.2×1.8×0.8	28	14.2	0.8	1.8	1	0.25	435	0.5	681	0.75	801	2.76
DNA 28×14.2×1.8×1	28	14.2	1	1.8	0.8	0.2	476	0.4	832	0.6	1107	3.468
DNA 28×14.2×2.1×1.25	28	14.2	1.25	2.1	0.85	0.213	907	0.425	1634	0.638	2240	4.317
DNA 28×14.2×2.15×1.5	28	14.2	1.5	2.15	0.65	0.163	1033	0.325	1970	0.488	2841	5.166
DNA 31.5×12.2×2.1×1	31.5	12.2	1	2.1	1.1	0.275	587	0.55	951	0.825	1167	5.035
DNA 31.5×12.2×2.2×1.25	31.5	12.2	1.25	2.2	0.95	0.238	761	0.475	1343	0.713	1805	6.268
DNA 31.5×16.3×2.35×1.5	31.5	16.3	1.5	2.35	0.85	0.213	1033	0.425	1912	0.638	2688	7.501
DNA 31.5×16.3×1.85×0.8	31.5	16.3	0.8	1.85	1.05	0.263	384	0.525	594	0.788	687	3.442
DNA 31.5×16.3×2.15×1.25	31.5	16.3	1.25	2.15	0.9	0.225	791	0.45	1409	0.675	1913	5.384
DNA 31.5×16.3×2.4×1.5	31.5	16.3	1.5	2.4	0.9	0.225	1260	0.45	2314	0.675	3230	6.443
DNA 31.5×16.3×2.45×1.75	31.5	16.3	1.75	2.45	0.7	0.175	1391	0.35	2669	0.525	3871	7.546
DNA 31.5×16.3×2.75×2	31.5	16.3	2	2.75	0.75	0.188	2199	0.375	4239	0.563	6173	8.605
DNA 34×12.3×2.25×1	34	12.3	1	2.25	1.25	0.313	637	0.625	998	0.938	1174	6.006
DNA 34×12.3×2.35×1.25	34	12.3	1.25	2.35	1.1	0.275	815	0.55	1395	0.825	1818	7.477
DNA 34×12.2×2.35×1.25	34	12.2	1.25	2.35	1.1	0.275	814	0.55	1393	0.825	1815	7.477
DNA 34×12.3×2.5×1.5	34	12.3	1.5	2.5	1	0.25	1097	0.5	1982	0.75	2725	8.948
DNA 34×12.2×2.5×1.5	34	12.2	1.5	2.5	1	0.25	1095	0.5	1979	0.75	2721	8.948
DNA 34×14.3×2.4×1.25	34	14.3	1.25	2.4	1.15	0.288	913	0.575	1546	0.863	1993	7.074
DNA 34×14.2×2.4×1.25	34	14.2	1.25	2.4	1.15	0.288	911	0.575	1543	0.863	1989	7.074
DNA 34×14.3×2.55×1.5	34	14.3	1.5	2.55	1.05	0.263	1224	0.525	2192	0.788	2990	8.465
DNA 34×14.2×2.55×1.5	34	14.2	1.5	2.55	1.05	0.263	1221	0.525	2187	0.788	2984	8.465
DNA 34×16.3×2.55×1.5	34	16.3	1.5	2.55	1.05	0.263	1291	0.525	2313	0.788	3155	7.911
DNA 34×16.3×2.85×2	34	16.3	2	2.85	0.85	0.213	2097	0.425	4003	0.638	5783	10.57
DNA 35.5×18.3×2.05×0.9	35.5	18.3	0.9	2.05	1.15	0.288	458	0.575	712	0.863	832	4.952
DNA 35.5×18.3×2.25×1.25	35.5	18.3	1.25	2.25	1	0.25	731	0.5	1277	0.75	1699	6.865
DNA 35.5×18.3×2.8×2	35.5	18.3	2	2.8	0.8	0.2	1864	0.4	3576	0.6	5187	10.97
DNA 40×14.3×2.65×1.25	40	14.3	1.25	2.65	1.4	0.35	904	0.7	1459	1.05	1780	10.4

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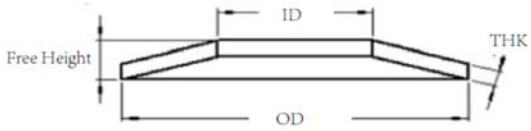
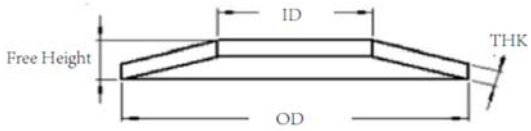
H0;Max Deflection=Free Height - THK





SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection HO (mm)	25% HO (mm)	load (N)	50% HO (mm)	Load (N)	75% HO (mm)	Load (N)	Weight (g)
DNA 40×14.3×2.75×1.5	40	14.3	1.5	2.75	1.25	0.313	1114	0.625	1929	0.938	2545	12.45
DNA 40×14.2×2.75×1.5	40	14.2	1.5	2.75	1.25	0.313	1113	0.625	1927	0.938	2542	12.45
DNA 40×14.3×3.05×2	40	14.3	2	3.05	1.05	0.263	1800	0.525	3363	0.788	4769	16.63
DNA 40×14.2×3.05×2	40	14.2	2	3.05	1.05	0.263	1797	0.525	3359	0.788	4763	16.63
DNA 40×16.3×2.8×1.5	40	16.3	1.5	2.8	1.3	0.325	1224	0.65	2102	0.975	2749	11.89
DNA 40×16.3×3.1×2	40	16.3	2	3.1	1.1	0.275	1972	0.55	3663	0.825	5169	15.89
DNA 40×18.3×3.15×2	40	18.3	2	3.15	1.15	0.288	2182	0.575	4030	0.863	5656	15.04
DNA 40×20.4×2.3×1	40	20.4	1	2.3	1.3	0.325	565	0.65	876	0.975	1017	7.07
DNA 40×20.4×2.65×1.5	40	20.4	1.5	2.65	1.15	0.288	1109	0.575	1953	0.863	2621	10.53
DNA 40×20.4×3.1×2	40	20.4	2	3.1	1.1	0.275	2175	0.55	4041	0.825	5701	14.06
DNA 40×20.4×3.15×2.25	40	20.4	2.25	3.15	0.9	0.225	2336	0.45	4481	0.675	6500	15.72
DNA 40×20.4×3.45×2.5	40	20.4	2.5	3.45	0.95	0.238	3351	0.475	6453	0.713	9390	17.52
DNA 45×22.4×2.85×1.25	45	22.4	1.25	2.85	1.6	0.4	1041	0.8	1620	1.2	1891	11.34
DNA 45×22.4×3.05×1.75	45	22.4	1.75	3.05	1.3	0.325	1524	0.65	2701	0.975	3646	15.89
DNA 45×22.4×3.5×2.5	45	22.4	2.5	3.5	1	0.25	2773	0.5	5320	0.75	7716	22.77
DNA 50×18.4×2.85×1.25	50	18.4	1.25	2.85	1.6	0.4	757	0.8	1178	1.2	1375	16.13
DNA 50×18.4×3.3×1.5	50	18.4	1.5	3.3	1.8	0.45	1379	0.9	2184	1.35	2606	19.31
DNA 50×18.3×3.3×1.5	50	18.3	1.5	3.3	1.8	0.45	1378	0.9	2182	1.35	2603	19.31
DNA 50×18.4×3.5×2	50	18.4	2	3.5	1.5	0.375	1918	0.75	3392	1.125	4572	25.79
DNA 50×18.3×3.5×2	50	18.3	2	3.5	1.5	0.375	1916	0.75	3389	1.125	4567	25.79
DNA 50×18.4×4.1×2.5	50	18.4	2.5	4.1	1.6	0.4	3703	0.8	6733	1.2	9315	32.14
DNA 50×18.3×4.1×2.5	50	18.3	2.5	4.1	1.6	0.4	3699	0.8	6726	1.2	9305	32.14
DNA 50×18.4×4.4×3	50	18.4	3	4.4	1.4	0.35	5043	0.7	9546	1.05	13688	38.35
DNA 50×18.3×4.4×3	50	18.3	3	4.4	1.4	0.35	5038	0.7	9535	1.05	13673	38.35
DNA 50×20.4×3.5×2	50	20.4	2	3.5	1.5	0.375	1966	0.75	3478	1.125	4687	24.85
DNA 50×20.4×3.85×2.5	50	20.4	2.5	3.85	1.35	0.338	3008	0.675	5601	1.013	7919	30.97
DNA 50×22.4×3.6×2	50	22.4	2	3.6	1.6	0.4	2247	0.8	3924	1.2	5222	23.82
DNA 50×22.4×3.9×2.5	50	22.4	2.5	3.9	1.4	0.35	3261	0.7	6044	1.05	8510	29.68
DNA 50×25.4×2.85×1.25	50	25.4	1.25	2.85	1.6	0.4	854	0.8	1328	1.2	1550	13.82
DNA 50×25.4×3.1×1.5	50	25.4	1.5	3.1	1.6	0.4	1242	0.8	2028	1.2	2512	16.54
DNA 50×25.4×3.4×2	50	25.4	2	3.4	1.4	0.35	1949	0.7	3491	1.05	4762	22.09
DNA 50×25.4×3.9×2.5	50	25.4	2.5	3.9	1.4	0.35	3473	0.7	6437	1.05	9063	27.52
DNA 50×25.4×4.1×3	50	25.4	3	4.1	1.1	0.275	4255	0.55	8214	0.825	11976	32.85
DNA 56×28.5×3.45×1.5	56	28.5	1.5	3.45	1.95	0.488	1458	0.975	2259	1.463	2622	20.85
DNA 56×28.5×3.6×2	56	28.5	2	3.6	1.6	0.4	1910	0.8	3335	1.2	4438	27.81
DNA 56×28.5×4.3×3	56	28.5	3	4.3	1.3	0.325	4142	0.65	7895	0.975	11388	41.57
DNA 60×20.5×4.1×2	60	20.5	2	4.1	2.1	0.525	2318	1.05	3802	1.575	4730	38.16
DNA 60×20.4×4.1×2	60	20.4	2	4.1	2.1	0.525	2316	1.05	3799	1.575	4727	38.16
DNA 60×20.5×4.3×2.5	60	20.5	2.5	4.3	1.8	0.45	3018	0.9	5379	1.35	7302	47.69
DNA 60×20.4×4.3×2.5	60	20.4	2.5	4.3	1.8	0.45	3016	0.9	5375	1.35	7297	47.69

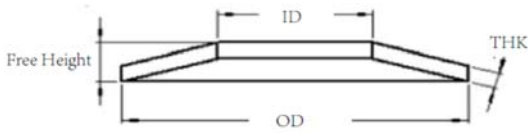
OD:Outer Diameter
ID:Inner Diameter
THK:Thickness
HO;Max Deflection=Free Height - THK





SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 60×20.5×4.7×3	60	20.5	3	4.7	1.7	0.425	4449	0.85	8234	1.275	11577	57.04
DNA 60×25.5×4.4×2.5	60	25.5	2.5	4.4	1.9	0.475	3447	0.95	6081	1.425	8175	44.2
DNA 60×25.4×4.4×2.5	60	25.4	2.5	4.4	1.9	0.475	3442	0.95	6073	1.425	8164	44.2
DNA 60×25.5×4.65×3	60	25.5	3	4.65	1.65	0.413	4495	0.825	8352	1.238	11784	52.86
DNA 60×25.4×4.65×3	60	25.4	3	4.65	1.65	0.413	4489	0.825	8341	1.238	11768	52.86
DNA 60×30.5×4.3×2.5	60	30.5	2.5	4.3	1.8	0.45	3447	0.9	6145	1.35	8342	39.94
DNA 60×30.5×4.7×3	60	30.5	3	4.7	1.7	0.425	5083	0.85	9407	1.275	13226	47.77
DNA 60×30.5×5×3.5	60	30.5	3.5	5	1.5	0.375	6591	0.75	12574	1.125	18153	55.1
DNA 63×31×4.15×1.8	63	31	1.8	4.15	2.35	0.588	2364	1.175	3658	1.763	4238	32.53
DNA 63×31×4.25×2.5	63	31	2.5	4.25	1.75	0.438	2942	0.875	5270	1.313	7189	44.85
DNA 63×31×4.8×3	63	31	3	4.8	1.8	0.45	4891	0.9	8981	1.35	12536	53.86
DNA 63×31×4.9×3.5	63	31	3.5	4.9	1.4	0.35	5399	0.7	5399	1.05	15025	62.13
DNA 70×25.5×4.5×2	70	25.5	2	4.5	2.5	0.625	2408	1.25	3771	1.875	4437	50.78
DNA 70×30.5×4.9×2.5	70	30.5	2.5	4.9	2.4	0.6	3755	1.2	6297	1.8	8031	59.53
DNA 70×30.5×5.1×3	70	30.5	3	5.1	2.1	0.525	4676	1.05	8376	1.575	11426	71.19
DNA 70×35.5×5.1×3	70	35.5	3	5.1	2.1	0.525	5028	1.05	9007	1.575	12287	65.21
DNA 70×35.5×5.8×4	70	35.5	4	5.8	1.8	0.45	8757	0.9	16634	1.35	2323	86.13
DNA 70×40.5×5.6×4	70	40.5	4	5.6	1.6	0.4	8391	0.8	16099	1.2	23351	77.04
DNA 70×40.5×6.2×5	70	40.5	5	6.2	1.2	0.3	11544	0.6	22728	0.9	33672	95.15
DNA 71×36×4.6×2	71	36	2	4.6	2.6	0.65	2861	1.3	4432	1.95	5144	44.66
DNA 71×36×4.5×2.5	71	36	2.5	4.5	2	0.5	2894	1	5054	1.5	6725	56.11
DNA 71×36×5.6×4	71	36	4	5.6	1.6	0.4	7379	0.8	14157	1.2	20535	88.63
DNA 80×31×5.3×2.5	80	31	2.5	5.3	2.8	0.7	3678	1.4	5933	2.1	7239	82.01
DNA 80×31×5.5×3	80	31	3	5.5	2.5	0.625	4531	1.25	7847	1.875	10352	98.01
DNA 80×31×6.1×4	80	31	4	6.1	2.1	0.525	7319	1.05	13677	1.575	19394	130
DNA 80×36×5.7×3	80	36	3	5.7	2.7	0.675	5401	1.35	9196	2.025	11919	91.9
DNA 80×36×6.2×4	80	36	4	6.2	2.2	0.55	8163	1.1	15168	1.65	21400	121.9
DNA 80×41×5.2×2.25	80	41	2.25	5.2	2.95	0.738	3698	1.475	5715	2.213	6613	63.5
DNA 80×41×5.3×3	80	41	3	5.3	2.3	0.575	4450	1.15	7838	1.725	10518	84.9
DNA 80×41×6.2×4	80	41	4	6.2	2.2	0.55	8726	1.1	16213	1.65	22874	112.6
DNA 80×41×6.7×5	80	41	5	6.7	1.7	0.425	11821	0.85	22928	1.275	33559	139.5
DNA 90×46×5.7×2.5	90	46	2.5	5.7	3.2	0.8	4232	1.6	6585	2.4	7684	89.7
DNA 90×46×6×3.5	90	46	3.5	6	2.5	0.625	5836	1.25	10416	1.875	14161	125.3
DNA 90×46×7×5	90	46	5	7	2	0.5	11267	1	21617	1.5	31354	177.6
DNA 100×41×7.2×4	100	41	4	7.2	3.2	0.8	8714	1.6	15219	2.4	20251	200
DNA 100×41×7.75×5	100	41	5	7.75	2.75	0.688	12345	1.375	22937	2.063	32361	248.9
DNA 100×51×6.2×2.7	100	51	2.7	6.2	3.5	0.875	4779	1.75	7410	2.625	8609	120.1
DNA 100×51×6.3×3.5	100	51	3.5	6.3	2.8	0.7	5624	1.4	9823	2.1	13070	155.4
DNA 100×51×7×4	100	51	4	7	3	0.75	8673	1.5	15341	2.25	20674	177.6
DNA 100×51×7.8×5	100	51	5	7.8	2.8	0.7	13924	1.4	25810	2.1	36339	221.1

OD:Outer Diameter
ID:Inner Diameter
THK:Thickness
H0;Max Deflection=Free Height - THK




Single


Series


Parallel

SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 100×51×8.2×6	100	51	6	8.2	2.2	0.55	17061	1.1	32937	1.65	48022	262.8
DNA 112×57×6.9×3	112	57	3	6.9	3.9	0.975	5834	1.95	9038	2.925	10489	168
DNA 112×57×7.2×4	112	57	4	7.2	3.2	0.8	7639	1.6	13341	2.4	17752	222.7
DNA 112×57×8.5×6	112	57	6	8.5	2.5	0.625	15800	1.25	30215	1.875	43707	332.1
DNA 125×41×8.2×4	125	41	4	8.2	4.2	1.05	8501	2.1	13943	3.15	17346	338.1
DNA 125×51×8.5×4	125	51	4	8.5	4.5	1.125	10096	2.25	16265	3.375	19817	315.6
DNA 125×51×8.9×5	125	51	5	8.9	3.9	0.975	13063	1.95	22931	2.925	30669	391.5
DNA 125×51×9.4×6	125	51	6	9.4	3.4	0.85	17027	1.7	31514	2.55	44307	465.8
DNA 125×61×9×5	125	61	5	9	4	1	14615	2	25526	3	33965	357.6
DNA 125×61×9.6×6	125	61	6	9.6	3.6	0.9	19789	1.8	36336	2.7	50722	425.4
DNA 125×64×8×3	125	64	3	8	5	1.25	8514	2.5	13231	3.75	15416	242.3
DNA 125×64×8.5×5	125	64	5	8.5	3.5	0.875	12238	1.75	21924	2.625	29908	346.2
DNA 125×71×9.3×6	125	71	6	9.3	3.3	0.825	19538	1.65	36302	2.475	51304	377.9
DNA 125×61×10.9×8	125	61	8	10.9	2.9	0.725	34434	1.45	65305	2.175	93577	547.3
DNA 125×64×10.6×8	125	64	8	10.6	2.6	0.65	31118	1.3	59520	1.95	85926	529.9
DNA 125×71×10.4×8	125	71	8	10.4	2.4	0.6	30867	1.2	59149	1.8	85494	479.6
DNA 125×71×11.8×10	125	71	10	11.8	1.8	0.45	42963	0.9	84219	1.35	124124	596.3
DNA 140×72×8.7×3.8	140	72	3.8	8.7	4.9	1.225	9514	2.45	14473	3.675	17195	329.7
DNA 140×72×9×5	140	72	5	9	4	1	12014	2	20982	3	27920	433.2
DNA 140×72×11.2×8	140	72	8	11.2	3.2	0.8	31903	1.6	59967	2.4	85251	663
DNA 150×61×10.3×5	150	61	5	10.3	5.3	1.325	15292	2.65	25021	3.975	31041	565
DNA 150×61×10.8×6	150	61	6	10.8	4.8	1.2	19560	2.4	34161	3.6	45456	676.8
DNA 150×71×10.8×6	150	71	6	10.8	4.8	1.2	20721	2.4	36189	3.6	48155	628.9
DNA 150×71×12×8	150	71	8	12	4	1	35296	2	61684	3	89851	803.6
DNA 150×81×11.7×8	150	81	8	11.7	3.7	0.925	34518	1.85	63876	2.775	89532	732.9
DNA 150×81×13×10	150	81	10	13	3	0.75	50088	1.5	96120	2.25	139128	908.8
DNA 160×82×9.9×4.3	160	82	4.3	9.9	5.6	1.4	12162	2.8	18832	4.2	21843	492.4
DNA 160×82×10.5×6	160	82	6	10.5	4.5	1.125	17203	2.25	30431	3.375	41008	679.8
DNA 160×82×13.5×10	160	82	10	13.5	3.5	0.875	50547	1.75	96216	2.625	138331	1089
DNA 180×92×11×4.8	180	92	4.8	11	6.2	1.55	14646	3.1	22731	4.65	26442	705.3
DNA 180×92×11×6	180	92	6	11	5	1.25	16558	2.5	28552	3.75	37502	862.5
DNA 180×92×14×10	180	92	10	14	4	1	46850	2	88141	3	125417	1381
DNA 200×82×14.2×8	200	82	8	14.2	6.2	1.55	35029	3.1	60013	4.65	78034	1554
DNA 200×82×15.5×10	200	82	10	15.5	5.5	1.375	51105	2.75	93357	4.125	129445	1962
DNA 200×82×16.6×12	200	82	12	16.6	4.6	1.15	66924	2.3	127191	3.45	182737	2351
DNA 200×92×15.6×10	200	92	10	15.6	5.6	1.4	55136	2.8	100014	4.2	137688	1840
DNA 200×92×16.8×12	200	92	12	16.8	4.8	1.2	73913	2.4	139548	3.6	199269	2208
DNA 200×92×18.1×14	200	92	14	18.1	4.1	1.025	95633	2.05	184092	3.075	267227	2537
DNA 200×102×12.5×5.5	200	102	5.5	12.5	7	1.75	19817	3.5	30882	5.25	36111	999.3
DNA 200×102×13.6×8	200	102	8	13.6	5.6	1.4	33367	2.8	57955	4.2	76378	1363

OD:Outer Diameter
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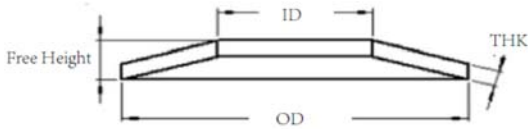
H0;Max Deflection=Free Height - THK



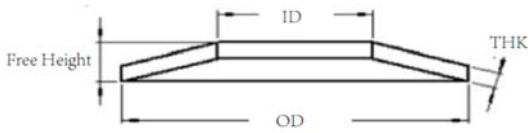

Single


Series


Parallel

SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 200×102×15.6×10	200	102	10	15.6	5.6	1.4	58757	2.8	106099	4.2	145357	1708
DNA 200×102×16.2×12	200	102	12	16.2	4.2	1.05	66983	2.1	127401	3.15	183020	2044
DNA 200×102×18.2×14	200	102	14	18.2	4.2	1.05	103781	2.1	199476	3.15	289181	2380
DNA 200×112×16.2×12	200	112	12	16.2	4.2	1.05	72257	2.1	133873	3.15	195830	1870
DNA 200×112×17.5×14	200	112	14	17.5	3.5	0.875	91033	1.75	176156	2.625	256758	2173
DNA 200×112×18.8×16	200	112	16	18.8	2.8	0.7	105268	1.4	206697	2.1	305100	2493
DNA 225×112×13.6×6.5	225	112	6.5	13.6	7.1	1.775	23582	3.55	37417	5.325	44580	1450
DNA 225×112×14.5×8	225	112	8	14.5	6.5	1.625	32870	3.25	55412	4.875	70749	1754
DNA 225×112×17×12	225	112	12	17	5	1.25	64497	2.5	120738	3.75	171016	2631
DNA 250×102×18×10	250	102	10	18	8	2	56867	4	97282	6	126387	3075
DNA 250×102×19×12	250	102	12	19	7	1.75	73563	3.5	133130	5.25	182962	3683
DNA 250×127×14.8×7	250	127	7	14.8	7.8	1.95	26895	3.9	42527	5.85	50466	1909
DNA 250×127×17×10	250	127	10	17	7	1.75	51871	3.5	90206	5.25	119053	2678
DNA 250×127×19.3×12	250	127	12	19.3	7.3	1.825	87633	3.65	156021	5.475	208060	3205
DNA 250×127×19.6×14	250	127	14	19.6	5.6	1.4	93239	2.8	175145	4.2	248828	3732
DNA 250×127×21.8×16	250	127	16	21.8	5.8	1.45	140941	2.9	267295	4.35	38317	4273
DNA 270×127×18×10.65	270	127	10.65	18	7.35	1.838	53800	3.675	93700	5.513	12390	3500
DNA 270×142×26.9×22	270	142	22	26.9	4.9	1.225	248700	2.45	490700	3.675	728300	7150
DNA 280×127×21.4×12	280	127	12	21.4	9.4	2.35	95400	4.7	163100	7.05	211600	4380
DNA 280×127×25×19	280	127	19	25	6	1.5	178200	3	342600	4.5	496800	6910
DNA 280×142×21×12	280	142	12	21	9	2.25	95100	4.5	163400	6.75	212900	4060
DNA 280×142×21.4×15	280	142	15	21.4	6.4	1.6	105700	3.2	197600	4.8	279500	5060
DNA 280×142×23.25×16.6	280	142	16.6	23.25	6.65	1.663	146600	3.325	275800	4.988	392300	5600
DNA 280×142×23.9×17.45	280	142	17.45	23.9	6.45	1.613	162300	3.225	307600	4.838	440400	5890
DNA 280×142×24×18	280	142	18	24	6	1.5	162600	3	310600	4.5	447900	6070
DNA 280×142×24.6×18.9	280	142	18.9	24.6	5.7	1.425	175800	2.85	338300	4.275	491000	6390
DNA 280×142×25.4×20.3	280	142	20.3	25.4	5.1	1.275	190600	2.55	370300	3.825	542100	6860
DNA 280×142×26.35×22	280	142	22	26.35	4.35	1.088	202800	2.175	397600	3.263	586300	7410
DNA 280×152×19.8×12.8	280	152	12.8	19.8	7	1.75	82100	3.5	148000	5.25	202500	4060
DNA 280×152×21.4×15	280	152	15	21.4	6.4	1.6	111300	3.2	207500	4.8	292700	4770
DNA 280×152×23.6×18.5	280	152	18.5	23.6	5.1	1.275	152700	2.55	295400	3.825	430600	5930
DNA 300×127×21×12	300	127	12	21	9	2.25	76300	4.5	13100	6.75	170700	5150
DNA 300×127×20.5×13	300	127	13	20.5	7.5	1.875	70900	3.75	127800	5.625	174900	5600
DNA 300×127×21×14	300	127	14	21	7	1.75	78300	3.5	144200	5.25	201400	6060
DNA 300×127×22.8×15	300	127	15	22.8	7.8	1.95	104600	3.9	197000	5.85	281200	6970
DNA 300×127×24.3×16	300	127	16	24.3	8.3	2.075	140200	4.15	257000	6.225	357400	6920
DNA 300×127×23.8×17	300	127	17	23.8	6.8	1.7	128400	3.4	242200	5.1	245500	7330
DNA 300×127×22.65×17.4	300	127	17.4	22.65	5.25	1.313	101100	2.625	194800	3.938	283000	7490
DNA 300×152×16.8×8.5	300	152	8.5	16.8	8.3	2.075	31300	4.15	51500	6.225	64100	3400
DNA 300×152×20×10	300	152	10	20	10	2.5	64900	5	104500	7.5	126600	3880

OD:Outer Diameter
ID:Inner Diameter
THK:Thickness
H0;Max Deflection=Free Height - THK





SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 300×152×21×12	300	152	12	21	9	2.25	82800	4.5	142200	6.75	185300	4660
DNA 300×152×22×13	300	152	13	22	9	2.25	101200	4.5	176200	6.75	232800	5030
DNA 300×152×22×14	300	152	14	22	8	2	102500	4	184700	6	252700	5440
DNA 300×152×22×14.5	300	152	14.5	22	7.5	1.875	103400	3.75	188600	5.625	260900	5610
DNA 300×152×23×15	300	152	15	23	8	2	123100	4	223900	6	308900	5820
DNA 300×152×23.5×15.5	300	152	15.5	23.5	8	2	134100	4	245200	6	339900	6020
DNA 300×152×23.7×16.1	300	152	16.1	23.7	7.6	1.9	139200	3.8	257000	5.7	359500	6230
DNA 300×152×23×16.5	300	152	16.5	23	6.5	1.625	117500	3.25	225600	4.875	327600	6810
DNA 300×152×24.4×17	300	152	17	24.4	7.4	1.85	155600	3.7	290300	5.55	410000	6600
DNA 300×152×25×18	300	152	18	25	7	1.75	170900	3.5	321700	5.25	457700	6930
DNA 300×152×25×18.5	300	152	18.5	25	6.5	1.625	167900	3.25	319600	4.875	459500	7180
DNA 300×152×26.2×19.5	300	152	19.5	26.2	6.7	1.675	202200	3.35	385200	5.025	554200	7550
DNA 300×152×25.5×20	300	152	20	25.5	5.5	1.375	17300	2.75	334500	4.125	487600	7750
DNA 300×152×26.5×20.5	300	152	20.5	26.5	6	1.5	204700	3	394700	4.5	573800	7960
DNA 300×182×18×12	300	182	12	18	6	1.5	54400	3	99100	4.5	136900	3890
DNA 320×172×16.3×8.1	320	172	8.1	16.3	8.2	2.05	26200	4.1	42000	6.15	50600	3410
DNA 320×172×19×9	320	172	9	19	10	2.5	47000	5	73900	7.5	87100	3820
DNA 320×172×20×13	320	172	13	20	7	1.75	64400	3.5	117000	5.25	161000	5480
DNA 320×172×21×15	320	172	15	21	6	1.5	77600	3	146100	4.5	207900	6330
DNA 340×172×19.4×9.2	340	172	9.2	19.4	10.2	2.55	47300	5.1	68600	7.65	80700	4590
DNA 340×172×20.8×9.5	340	172	9.5	20.8	11.3	2.825	57000	5.65	87900	8.475	100800	4720
DNA 340×172×22.5×10.5	340	172	10.5	22.5	12	3	78300	6	122200	9	142500	5250
DNA 340×172×22.4×11	340	172	11	22.4	11.4	2.85	78300	5.7	125400	8.55	151000	5520
DNA 340×172×22.9×11.5	340	172	11.5	22.9	11.4	2.85	87000	5.7	140300	8.55	170400	5730
DNA 340×172×23×12.5	340	172	12.5	23	10.5	2.625	90800	5.25	152500	7.875	194000	6260
DNA 340×172×23.5×13.5	340	172	13.5	23.5	10	2.5	101300	5	174300	7.5	227600	6740
DNA 340×172×24.3×13.7	340	172	13.7	24.3	10.6	2.65	115000	5.3	196200	7.95	253900	6840
DNA 340×172×24.4×14.2	340	172	14.2	24.4	10.2	2.55	118800	5.1	205200	7.65	268900	7050
DNA 340×172×25.1×14.6	340	172	14.6	25.1	10.5	2.625	132700	5.25	229400	7.875	300900	7270
DNA 340×172×24.7×15.3	340	172	15.3	24.7	9.4	2.35	126200	4.7	224700	7.05	303700	7640
DNA 340×172×25.5×15.8	340	172	15.8	25.5	9.7	2.425	144000	4.85	255900	7.275	345200	7850
DNA 340×172×25.6×16.2	340	172	16.2	25.6	9.4	2.35	146700	4.7	263200	7.05	358400	8060
DNA 340×172×25.3×17	340	172	17	25.3	8.3	2.075	140300	4.15	258300	6.225	360400	8490
DNA 340×172×26.1×17.3	340	172	17.3	26.1	8.8	2.2	158700	4.4	290800	6.6	403900	8640
DNA 340×172×26×18	340	172	18	26	8	2	156400	4	291000	6	409800	8960
DNA 340×172×28×20	340	172	20	28	8	2	209500	4	393500	6	558900	9920
DNA 340×172×28×22	340	172	22	28	6	1.5	195500	3	377900	4.5	550600	10900
DNA 360×182×23.5×15.5	360	182	15.5	23.5	8	2	93000	4	170000	6	235700	8680
DNA 360×182×28.3×20	360	182	20	28.3	8.3	2.075	194800	4.15	365200	6.225	518000	11200
DNA 360×182×28×21	360	182	21	28	7	1.75	182000	3.5	347500	5.25	501000	11700

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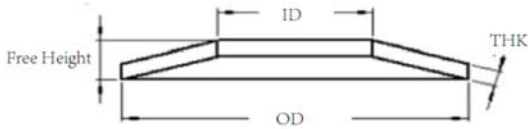



SPECS	OD (mm)	ID (mm)	THK (mm)	Free Height (mm)	Max-Deflection H0 (mm)	25% H0 (mm)	load (N)	50% H0 (mm)	Load (N)	75% H0 (mm)	Load (N)	Weight (g)
DNA 360×182×29.5×21.5	360	182	21.5	29.5	8	2	227700	4	431200	6	617000	12000
DNA 360×182×30.2×23	360	182	23	30.2	7.2	1.8	243300	3.6	466700	5.4	675700	12800
DNA 370×202×31.4×25	370	202	25	31.4	6.4	1.6	271200	3.2	525000	4.8	765700	13700
DNA 370×202×32.8×26	370	202	26	32.8	6.8	1.7	324500	3.4	628000	5.1	915500	14300
DNA 380×152×29×19	380	152	19	29	10	2.5	174600	5	319100	7.5	442400	13500
DNA 380×192×26.2×13.5	380	192	13.5	26.2	12.7	3.175	120300	6.35	196600	9.525	242400	8420
DNA 380×192×33×25	380	192	25	33	8	2	313100	4	599300	6	865600	15500
DNA 380×202×25×12	380	202	12	25	13	3.25	98100	6.5	156300	9.75	187300	7350
DNA 380×202×27×15	380	202	15	27	12	3	144400	6	244600	9	313900	9000
DNA 380×212×27×18	380	212	18	27	9	2.25	158000	4.5	288300	6.75	398700	10200
DNA 400×202×22×10	400	202	10	22	12	3	50100	6	77900	9	90400	7050
DNA 400×202×26.5×12	400	202	12	26.5	14.5	3.625	107500	7.25	165400	10.875	189200	8300
DNA 400×202×27×14	400	202	14	27	13	3.25	122400	6.5	200800	9.75	248900	9700
DNA 400×202×28×16	400	202	16	28	12	3	146600	6	252100	9	328800	11100
DNA 400×202×30×19	400	202	19	30	11	2.75	198900	5.5	357700	8.25	488200	13200
DNA 400×202×31.1×20.3	400	202	20.3	31.1	10.8	2.7	230900	5.4	420300	8.1	580100	14000
DNA 400×202×31.4×21.2	400	202	21.2	31.4	10.2	2.55	240700	5.1	443500	7.65	619200	14600
DNA 400×202×32.5×22.5	400	202	22.5	32.5	10	2.5	274900	5	512000	7.5	722000	15600
DNA 400×202×37.2×30	400	202	30	37.2	7.2	1.8	422500	3.6	822700	5.4	1206000	20700
DNA 440×212×32×18.5	440	212	18.5	32	13.5	3.375	190400	6.75	338500	10.125	458400	17000
DNA 440×252×33×25	440	252	25	33	8	2	257500	4	491700	6	708500	18600
DNA 450×202×34.1×25.5	450	202	25.5	34.1	8.6	2.15	241500	4.3	461200	6.45	665000	23900
DNA 450×252×33×21	450	252	21	33	12	3	251200	6	449800	9	610900	16700
DNA 450×252×33.8×25	450	252	25	33.8	8.8	2.2	269500	4.4	511400	6.6	733000	20000
DNA 470×237×42×33	470	237	33	42	9	2.25	516100	4.5	999000	6.75	1456000	31500
DNA 480×252×33×20.3	480	252	20.3	33	12.7	3.175	207400	6.35	367200	9.525	493500	19600
DNA 480×252×36.6×20.7	480	252	20.7	36.6	15.9	3.975	285500	7.95	502600	11.925	674300	21300
DNA 500×202×44.4×37	500	202	37	44.4	7.4	1.85	466200	3.7	914900	5.55	1350000	45100
DNA 500×242×41×32	500	242	32	41	9	2.25	408400	4.5	788400	6.75	1147000	35400
DNA 500×252×34.5×19	500	252	19	34.5	15.5	3.875	200100	7.75	348100	11.625	461300	21900
DNA 600×282×44×22	600	282	22	44	22	5.5	340100	11	564800	16.5	712400	38000
DNA 600×282×46×24	600	282	24	46	22	5.5	413600	11	701300	16.5	905000	41500

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