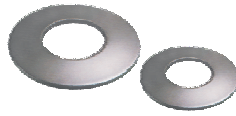
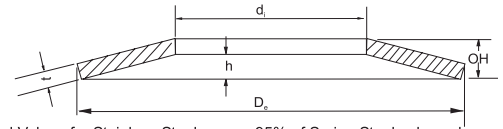


For Bolt - Inch Sizes
DI Series
 Steel & Stainless Steel



DISC SPRING-for BOLTS
 Materials available : Springs Steel, Stainless Steel and 17 - 7 PH.

Series DI Pre-stressed Disc Springs are used to maintain load or tension in bolted assemblies. Pressure begins at the outer radius and flattens gradually toward the bolt as deflection progresses. Disc Springs exerts uniform pressure that remains constant inspite of tension losses caused by thermal expansion and contraction, compression set, or wear of parts. Because pressures are predictable, disc springs provide a simple and effective means of determining bolt tension that is far more accurate than "Torque" readings.



Load Values for Stainless Steel approx 95% of Spring Steel values shown.

Higher Spring Action in Less Space

Part No.	Nom. Bolt or Shaft Size	Dimensions										Load in Flat(N) P	Deflection(in) f	Load in Flat(N) P(max)	Deflection(in) f(max)
		Inches					mm								
		D _e	d _i	t	h	O.H	D _e	d _i	t	h	O.H				
DI-040202	#2	0.187	0.093	0.007	0.006	0.013	4.80	2.40	0.20	0.20	0.30	44.60	0.005	53.50	0.006
DI-040203	#2	0.187	0.093	0.010	0.005	0.015	4.80	2.40	0.30	0.10	0.40	53.50	0.004	129.30	0.005
DI-060302	#4	0.250	0.125	0.009	0.008	0.017	6.40	3.20	0.20	0.20	0.40	71.40	0.006	84.70	0.008
DI-060303	#4	0.250	0.125	0.013	0.007	0.020	6.40	3.20	0.30	0.20	0.50	173.90	0.005	222.90	0.007
DI-070304	#6	0.281	0.138	0.015	0.008	0.023	7.10	3.50	0.40	0.20	0.60	240.80	0.006	307.70	0.008
DI-080403	5/32"	0.312	0.156	0.011	0.011	0.022	8.00	4.00	0.30	0.30	0.60	115.90	0.008	133.80	0.011
DI-080404	#6	0.312	0.156	0.017	0.008	0.025	8.00	4.00	0.40	0.20	0.60	280.90	0.006	365.70	0.008
DI-080405	#8	0.343	0.164	0.019	0.009	0.028	8.70	4.20	0.50	0.20	0.70	256.70	0.007	463.80	0.009
DI-090404	3/16"	0.375	0.195	0.015	0.012	0.027	9.50	4.90	0.40	0.30	0.70	218.50	0.009	264.00	0.012
DI-120605	1/4"	0.500	0.258	0.019	0.016	0.035	12.70	6.60	0.50	0.40	0.90	334.40	0.012	396.90	0.016
DI-120606	1/4"	0.500	0.258	0.023	0.016	0.039	12.70	6.60	0.60	0.40	1.00	579.70	0.012	713.50	0.016
DI-150808	5/16"	0.625	0.317	0.032	0.016	0.048	15.90	8.00	0.80	0.40	1.20	949.80	0.012	1217.30	0.016
DI-190807	5/16"	0.750	0.320	0.028	0.024	0.052	19.00	8.10	0.70	0.60	1.30	651.00	0.018	775.90	0.024
DI-190808	5/16"	0.750	0.320	0.032	0.024	0.056	19.00	8.10	0.80	0.60	1.40	949.80	0.018	1163.80	0.024
DI-170906	3/8"	0.688	0.382	0.024	0.020	0.044	17.50	9.70	0.60	0.50	1.10	463.70	0.015	557.40	0.020
DI-170907	3/8"	0.688	0.382	0.028	0.020	0.048	17.50	9.70	0.70	0.50	1.20	722.40	0.015	891.80	0.020
DI-190908	3/8"	0.750	0.382	0.032	0.020	0.052	19.00	9.70	0.80	0.50	1.30	838.30	0.015	1052.40	0.020
DI-190909	3/8"	0.750	0.382	0.035	0.022	0.057	19.00	9.70	0.90	0.60	1.40	1212.90	0.017	1525.00	0.022
DI-190910	3/8"	0.750	0.382	0.040	0.019	0.059	19.00	9.70	1.00	0.50	1.50	1529.50	0.014	1966.50	0.019
DI-251109	7/16"	1.000	0.445	0.035	0.032	0.067	25.40	11.30	0.90	0.80	1.70	976.50	0.024	1150.50	0.032

Disc Springs for Bolt (Inch)

Higher Spring Action in Less Space															
Part No.	Nom. Bolt or Shaft Size	Dimensions										Load in Flat(N) P	Deflection(in) f	Load in Flat(N) P(max)	Deflection(in) f(max)
		Inches					mm								
		D _e	d _i	t	h	O.H	D _e	d _i	t	h	O.H				
DI-251110	7/16"	1.000	0.445	0.039	0.032	0.071	25.40	11.30	1.00	0.80	1.80	1328.80	0.024	1600.80	0.032
DI-251112	7/16"	1.000	0.445	0.049	0.026	0.075	25.40	11.30	1.20	0.70	1.90	2028.90	0.020	2586.30	0.026
DI-251309	1/2"	1.000	0.512	0.035	0.032	0.067	25.40	13.00	0.90	0.80	1.70	1052.30	0.024	1235.20	0.032
DI-271310	1/2"	1.100	0.512	0.039	0.036	0.075	27.90	13.00	1.00	0.90	1.90	1288.70	0.027	1511.60	0.036
DI-271312	1/2"	1.100	0.512	0.049	0.003	0.083	27.90	13.00	1.20	0.80	2.10	2305.40	0.025	2853.20	0.034
DI-271315	1/2"	1.100	0.512	0.059	0.028	0.087	27.90	13.00	1.50	0.70	2.20	3197.20	0.021	4115.70	0.028
DI-281414	9/16"	1.125	0.567	0.056	0.028	0.084	28.60	14.40	1.40	0.70	2.10	2729.00	0.021	3495.90	0.028
DI-311610	5/8"	1.250	0.630	0.040	0.042	0.082	31.80	16.00	1.00	1.10	2.10	1351.10	0.031	1533.90	0.042
DI-311616	5/8"	1.250	0.630	0.062	0.030	0.092	31.80	16.00	1.60	0.80	2.30	3197.20	0.022	4111.30	0.030
DI-341612	5/8"	1.375	0.637	0.049	0.046	0.095	34.90	16.20	1.20	1.20	2.40	2091.30	0.034	2448.00	0.046
DI-341615	5/8"	1.375	0.637	0.059	0.043	0.102	34.90	16.20	1.50	1.10	2.60	3268.50	0.032	4017.60	0.043
DI-341620	5/8"	1.375	0.637	0.078	0.032	0.110	34.90	16.20	2.00	0.80	2.80	5342.00	0.024	6938.40	0.032
DI-381911	3/4"	1.500	0.755	0.045	0.048	0.093	38.10	19.20	1.10	1.20	2.40	1525.00	0.036	1721.20	0.048
DI-381918	3/4"	1.500	0.755	0.072	0.037	0.109	38.10	19.20	1.80	0.90	2.80	5303.00	0.028	5507.00	0.037
DI-381915	3/4"	1.500	0.761	0.059	0.055	0.114	38.10	19.30	1.50	1.40	2.90	3883.90	0.041	4543.80	0.055
DI-381920	3/4"	1.500	0.761	0.078	0.044	0.122	38.10	19.30	2.00	1.10	3.10	6666.30	0.033	8458.90	0.044
DI-381925	3/4"	1.500	0.761	0.098	0.036	0.134	38.10	19.30	2.50	0.90	3.40	10581.00	0.027	13810.00	0.036
DI-442222	7/8"	1.750	0.880	0.085	0.043	0.128	44.40	22.30	2.20	1.10	3.30	6037.60	0.032	7736.50	0.043
DI-502217	1"	2.000	0.880	0.065	0.065	0.130	50.80	22.30	1.70	1.70	3.30	3469.20	0.049	3990.00	0.065
DI-502520	1"	2.000	1.016	0.078	0.060	0.138	50.80	25.80	2.00	1.50	3.50	5252.80	0.045	6403.30	0.060
DI-502525	1"	2.000	1.016	0.098	0.060	0.158	50.80	25.80	2.50	1.50	4.00	10211.00	0.045	12847.00	0.060
DI-502530	1"	2.000	1.016	0.118	0.047	0.165	50.80	25.80	3.00	1.20	4.20	13524.00	0.035	17587.00	0.047
DI-602520	1"	2.375	1.016	0.078	0.079	0.157	60.30	25.80	2.00	2.00	4.00	4784.60	0.059	5489.10	0.079
DI-602525	1"	2.375	1.016	0.098	0.079	0.177	60.30	25.80	2.50	2.00	4.50	6087.60	0.059	10983.00	0.079
DI-602530	1"	2.375	1.016	0.118	0.063	0.181	60.30	25.80	3.00	1.60	4.60	12008.00	0.047	15313.00	0.063
DI-633120	1.1/4"	2.500	1.250	0.080	0.080	0.160	63.50	31.80	2.00	2.00	4.60	5043.30	0.060	5801.30	0.080
DI-633131	1.1/4"	2.500	1.250	0.120	0.060	0.180	63.50	31.80	3.10	1.50	4.60	11554.00	0.045	14813.00	0.080