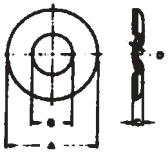


FOUR WAVE SPRING WASHERS

Hole Size	Inside Diameter		Outside Diameter		Free Height		Thickness	*Maximum Load at Yield Pt. (lb)	*Maximum Deflection at Yield Pt. (in.)	WCL Product Number
	Min.	Max.	Min.	Max.	Min.	Max.				
5	.122	.132	.365	.385	.015	.035	.005			W-0122-0365-005
8	.173	.178	.365	.385	.020	.040	.007	112.1	.01	W-0173-0365-007
10	.188	.218	.423	.453	.047	.077	.015	311.4	.006	W-0188-0423-015
10	.188	.218	.423	.453	.057	.087	.025			W-0188-0423-025
10	.188	.208	.428	.448	.050	.070	.015	--	.003	W-0188-0428-015
10	.188	.208	.428	.448	.050	.070	.025	--	.002	W-0188-0428-025
10	.193	.213	.366	.386	.045	.065	.006	16.3	.005	W-0193-0366-006
10	.193	.213	.428	.448	.040	.060	.010	--	.004	W-0193-0428-010
10	.195	.215	.349	.369	.045	.065	.004			W-0195-0349-004
10	.200	.220	.427	.447	.040	.060	.015			W-0200-0427-015
1/4	.248	.268	.427	.447	.045	.065	.005			W-0248-0427-005
1/4	.255	.275	.365	.385	.036	.056	.010			W-0255-0365-010
1/4	.255	.275	.365	.385	.020	.040	.010	19.7	.004	W-0255-0365-010
1/4	.255	.260	.678	.698	.135	.155	.025			W-0255-0678-025
1/4	.256	.260	.428	.448	.045	.065	.008			W-0256-0428-008
1/4	.260	.280	.443	.463	.050	.070	.005			W-0260-0443-005
1/4	.274	.294	.924	.944	.088	.108	.015			W-0274-0924-015
5/16	.302	.322	.453	.473	.021	.041	.016	62.2	.004	W-0302-0453-016
5/16	.302	.322	.453	.473	.040	.060	.020	97.2	.003	W-0302-0453-020
5/16	.310	.330	.471	.491	.055	.075	.012			W-0310-0471-012
5/16	.320	.332	.490	.510	.059	.073	.008			W-0320-0490-008
5/16	.321	.341	.505	.525	.080	.100	.004			W-0321-0505-004
5/16	.325	.345	.552	.572	.050	.070	.010	36	.008	W-0325-0552-010
5/16	.337	.357	.458	.478	.050	.070	.005			W-0337-0458-005
5/16	.340	.360	.424	.444	.022	.042	.008	10.2	.007	W-0340-0424-008
5/16	.350	.370	.520	.540	.055	.075	.012			W-0350-0520-012
3/8	.377	.397	.490	.510	.049	.069	.016	27.5	.005	W-0377-0490-016
3/8	.380	.400	.677	.697	.070	.090	.006			W-0380-0677-006
3/8	.383	.403	.568	.588	.070	.090	.006			W-0383-0568-006
3/8	.394	.414	.534	.554	.051	.071	.006			W-0394-0534-006
3/8	.395	.415	.990	1.01	.115	.135	.018			W-0395-0990-018
7/16	.453	.473	.670	.690	.065	.085	.013			W-0453-0670-013
7/16	.460	.480	.865	.895	.035	.055	.005	11.6	.034	W-0460-0865-005
7/16	.460	.480	.865	.895	.035	.055	.007	22.6	.025	W-0460-0865-007
7/16	.480	.500	.600	.620	.017	.047	.007	8	.016	W-0480-0600-007
1/2	.495	.515	.611	.631	.010	.030	.004			W-0495-0611-004
1/2	.495	.515	.646	.666	.055	.085	.006	4.1	.021	W-0495-0646-006
1/2	.498	.518	.740	.760	.052	.072	.010			W-0498-0740-010
1/2	.500	.520	.646	.666	.060	.080	.006			W-0500-0646-006
1/2	.500	.520	.646	.666	.068	.088	.020			W-0500-0646-020
1/2	.504	.524	.611	.631	.011	.031	.005			W-0504-0611-005
1/2	.504	.524	.645	.665	.063	.083	.020			W-0504-0645-020
1/2	.506	.526	.724	.744	.070	.090	.006			W-0506-0724-006

* These theoretical load values are presented only as a guide and may vary as much as 20% in specific applications.



FOUR WAVE SPRING WASHERS

Hole Size	Inside Diameter		Outside Diameter		Free Height		Thickness	*Maximum Load at Yield Pt. (lb)	*Maximum Deflection at Yield Pt. (in.)	WCL Product Number
	Min.	Max.	Min.	Max.	Min.	Max.				
9/16	.587	.607	.911	.931	.052	.072	.010			W-0587-0911-010
	.610	.630	.740	.760	.030	.060	.010	14.1	.018	W-0610-0740-010
5/8	.621	.641	.818	.838	.067	.087	.015			W-0621-0818-015
5/8	.632	.652	.849	.869	.070	.090	.008			W-0632-0849-008
5/8	.646	.666	.740	.760	.052	.072	.013			W-0646-0740-013
5/8	.657	.677	.708	.728	.053	.073	.012			W-0657-0708-012
13/16	.813	.833	.874	.894	.053	.073	.012			W-0813-0874-012
	.833	.853	1.302	1.322	.140	.160	.006			W-0833-0302-006
	.870	.900	1.296	1.326	.110	.140	.007	11.8	.065	W-0870-0296-007
7/8	.899	.919	1.115	1.135	.083	.103	.010			W-0899-0115-010
	.955	.985	1.195	1.225	.047	.077	.012	23.6	.037	W-0955-0195-012
15/16	.990	1.01	1.161	1.181	.068	.088	.015			W-0990-1161-015
	1.235	1.265	1.438	1.468	.070	.110	.016	28.7	.043	W-1235-1438-016
	1.235	1.265	1.625	1.655	.040	.080	.016	28.1	.044	W-1235-1625-016
1-3/16	1.24	1.26	1.443	1.463	.080	.100	.015			W-1240-1443-015
	1.259	1.289	1.38	1.41	.048	.088	.022	32.7	.031	W-1259-1380-022
1-1/4	1.26	1.27	1.384	1.394	.115	.145	.005			W-1260-0384-005
1-1/4	1.263	1.283	1.385	1.405	.048	.068	.022			W-1263-1385-022
1-1/4	1.287	1.307	1.485	1.505	.085	.105	.003			W-1287-1485-003
1-1/4	1.287	1.307	1.485	1.505	.095	.115	.008			W-1287-1485-008
	1.405	1.435	1.575	1.605	.210	.250	.020	33.7	.043	W-1405-1575-020
	1.422	1.452	1.675	1.705	.015	.055	.005	--	--	W-1422-1675-005
	1.425	1.455	1.675	1.705	.025	.065	.018	20.3	.027	W-1425-1675-018
1-3/8	1.446	1.466	1.115	1.135	.145	.165	.018			W-1446-1115-018
	1.485	1.515	1.805	1.835	.105	.145	.010		--	W-1485-1805-010
1-1/2	1.51	1.53	1.865	1.885	.070	.090	.016			W-1510-1865-016
1-1/2	1.517	1.537	1.74	1.76	.070	.090	.018			W-1517-1740-018
	1.56	1.59	1.955	1.985	.117	.157	.008	9.3	.129	W-1560-1955-008
	1.615	1.645	2.145	2.175	.130	.170	.032	135.6	.042	W-1615-2145-032
	1.641	1.671	1.97	2	.105	.145	.010	12.4	.115	W-1641-1970-010
	1.641	1.671	1.97	2	.025	.065	.010	--	--	W-1641-1970-010
	1.685	1.715	1.785	1.815	.030	.070	.025	14.4	.025	W-1685-1785-025
	1.735	1.765	1.985	2.015	.130	.170	.025	62.1	.053	W-1735-1985-025
	1.766	1.796	1.985	2.015	.167	.207	.020	34.5	.067	W-1766-1985-020
2	2.008	2.028	2.365	2.385	.068	.088	.015			W-2008-2365-015
	2.017	2.047	2.86	2.89	.195	.235	.016	50.4	.142	W-2017-2860-016
	2.74	2.77	2.975	3.005	.249	.289	.016	15.6	.194	W-2740-2975-016
	3.474	3.475	3.789	3.79	.080	.120	.050	81.2	.05	W-3474-3789-050

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