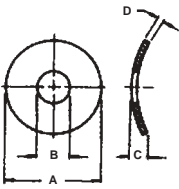


CRESCENT SPRING WASHERS

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.				
None	.000	.000	.113	.133	.021	.041	.003	1.18	.006	U-0000-0113-003
None	.000	.000	.416	.426	.050	.070	.008	8.53	.025	U-0000-0426-008
None	.000	.000	.547	.557	.115	.135	.008	8.53	.042	U-0000-0557-008
0	.035	.045	.095	.115	.010	.026	.006	3.30	.002	U-0035-0115-006
0	.038	.048	.078	.098	.007	.023	.004	1.20	.002	U-0038-0098-004
0	.042	.052	.110	.130	.017	.033	.004	1.40	.004	U-0042-0130-004
0	.042	.052	.110	.130	.024	.040	.004	1.40	.004	U-0042-0130-004
0	.046	.056	.368	.388	.039	.055	.005	3.20	.035	U-0046-0388-005
0	.047	.057	.123	.143	.027	.043	.005	2.20	.004	U-0047-0143-005
0	.048	.052	.084	.088	.008	.012	.004	0.89	.002	U-0048-0088-004
0	.050	.060	.230	.250	.032	.048	.016	28.9	.004	U-0050-0250-016
0	.050	.060	.340	.360	.052	.068	.005	3.1	.030	U-0050-0360-005
0	.050	.060	.349	.369	.068	.088	.002	.45	.072	U-0050-0369-002
0	.053	.058	.235	.245	.030	.050	.015	23.06	.004	U-0053-0245-015
0	.054	.064	.173	.193	.039	.055	.005	2.5	.008	U-0053-0245-015
0	.058	.068	.120	.140	.003	.023	.005			U-0058-0140-005
0	.059	.069	.120	.140	.017	.033	.006	2.70	.003	U-0059-0140-006
0	.059	.069	.120	.140	.024	.040	.006	2.70	.003	U-0059-0140-006
0	.059	.069	.240	.260	.022	.038	.003	1	.025	U-0059-0260-003
0	.059	.069	.369	.389	.039	.055	.010	12.2	.018	U-0059-0389-010
0	.060	.070	.123	.143	.029	.045	.008	4.8	.003	U-0060-0143-008
0	.060	.070	.238	.258	.03	.050	.003			U-0060-0258-003
0	.063	.073	.120	.140	.024	.040	.006	2.5	.003	U-0063-0140-006
0	.063	.073	.135	.155	.022	.038	.005	19	.005	U-0063-0155-005
0	.065	.067	.165	.175	.035	.050	.005	2.04	.006	U-0065-0175-005
0	.065	.075	.230	.250	.047	.063	.005	2.6	.014	U-0065-0250-005
0	.067	.077	.165	.175	.035	.050	.005	1.92	.006	U-0067-0175-005
0	.067	.077	.165	.175	.035	.050	.010	7.69	.003	U-0067-0175-010
0	.068	.072	.235	.245	.040	.070	.005	2.36	.013	U-0068-0245-005
0	.068	.072	.235	.245	.040	.070	.005	2.36	.013	U-0068-0245-005
0	.068	.072	.235	.245	.040	.070	.010	9.44	.006	U-0068-0245-010
1	.069	.079	.146	.166	.025	.045	.012			U-0069-0166-012
1	.070	.080	.108	.128	.012	.028	.003	0.3	.005	U-0070-0108-003
1	.070	.080	.108	.128	.012	.028	.003	0.5	.006	U-0070-0128-003
1	.070	.080	.148	.168	.039	.055	.003	7	.010	U-0070-0148-003
1	.070	.076	.235	.245	.03	.050	.015	20.88	.004	U-0070-0235-015
1	.073	.083	.118	.138	.007	.027	.005			U-0073-0118-005
1	.073	.083	.147	.167	.013	.033	.003			U-0073-0147-003
1	.075	.085	.235	.255	.042	.058	.006	3.6	.012	U-0075-0235-006
1	.079	.089	.120	.140	.027	.043	.008	3.3	.003	U-0079-0120-008
2	.081	.091	.127	.147	.015	.035	.010			U-0081-0127-010
2	.082	.092	.240	.260	.040	.060	.010			U-0082-0240-010
2	.085	.095	.175	.195	.029	.045	.010	7.5	.004	U-0085-0175-010

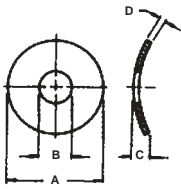
* These theoretical load values are presented only as a guide and may vary as much as 20% in specific applications.



CRESCENT 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.				
2	.085	.095	.176	.196	.026	.046	.010			U-0085-0176-010
2	.085	.095	.230	.250	.032	.048	.010	9.2	.007	U-0085-0230-010
2	.085	.095	.235	.245	.030	.050	.010	8.33	.006	U-0085-0235-010
2	.086	.096	.113	.133	.032	.048	.016	9.8	.001	U-0086-0113-016
2	.087	.097	.153	.173	.039	.055	.005	1.6	.006	U-0087-0123-005
2	.087	nom	.180	nom	.020	.040	.012			U-0087-0180-012
2	.087	.097	.365	.385	.052	.072	.010			U-0087-0365-010
2	.088	.094	.150	.170	.005	.025	.008	3.68	.004	U-0088-0150-008
2	.088	.098	.160	.180	.018	.034	.004	1.1	.009	U-0088-0160-004
2	.088	.098	.660	.680	.070	.086	.012	18.2	.046	U-0088-0660-012
2	.089	.099	.150	.170	.026	.042	.004	1	.008	U-0089-0150-004
2	.090	.100	.171	.181	.030	.040	.008	3.93	.004	U-0090-0171-008
2	.090	.100	.171	.181	.032	.042	.010	6.14	.003	U-0090-0171-010
2	.090	.100	.171	.181	.025	.035	.011	7.43	.003	U-0090-0171-011
2	.090	.100	.302	.322	.069	.085	.007	5	.017	U-0090-0302-007
2	.090	.100	.310	.330	.047	.063	.008	6.6	.016	U-0090-0310-008
2	.091	.101	.125	.135	.020	.040	.004	0.56	.005	U-0091-0125-004
2	.091	.101	.130	.150	.023	.039	.003	0.4	.008	U-0091-0130-003
2	.091	.095	.165	.175	.020	.030	.006	2.17	.005	U-0091-0165-006
2	.091	.101	.177	.197	.015	.035	.010			U-0091-0177-010
2	.091	.101	.208	.228	.036	.056	.006			U-0091-0208-006
2	.091	.101	.240	.260	.032	.048	.005	2.3	.015	U-0091-0240-005
2	.091	.101	.240	.260	.045	.065	.008			U-0091-0240-008
2	.091	.101	.427	.447	.090	.110	.010			U-0091-0427-010
2	.091	.101	.615	.635	.083	.103	.010			U-0091-0615-010
2	.092	.102	.183	.203	.039	.055	.005	1.8	.009	U-0092-0183-005
2	.092	.102	.183	.203	.039	.055	.010	7.3	.005	U-0092-0183-010
2	.092	.102	.200	.220	.032	.048	.010	7.9	.005	U-0092-0200-010
2	.092	.102	.292	.312	.022	.038	.006	3.6	.019	U-0092-0292-008
2	.092	.102	.292	.312	.022	.038	.008	6.4	.014	U-0092-0292-008
2	.093	.103	.205	.215	.035	.045	.010	7.11	.005	U-0093-0205-010
2	.093	.103	.240	.260	.030	.050	.005			U-0093-0420-005
2	.093	.103	.393	.413	.039	.055	.006	4	.033	U-0093-0393-006
2	.093	.103	.428	.448	.052	.068	.010	11.4	.023	U-0093-0428-010
2	.094	.104	.195	.215	.032	.048	.010	7.6	.005	U-0094-0195-010
2	.095	.105	.240	.260	.030	.050	.005			U-0095-0240-005
2	.095	.099	.297	.307	.021	.041	.010	9.05	.01	U-0095-0297-010
2	.095	.105	.615	.635	.082	.098	.010	12.3	.048	U-0095-0615-010
2	.096	.106	.137	.157	.032	.048	.005	1.1	.005	U-0096-0137-005
2	.097	.102	.495	.505	.061	.081	.010	10.68	.028	U-0097-0495-010
3	.098	nom	.200	nom	.020	.040	.012			U-0098-0200-012
3	.100	nom	.215	nom	.028	nom	.005	1.5		U-0100-0215-005
3	.100	nom	.215	nom	.025	nom	.006	2.25		U-0100-0215-006

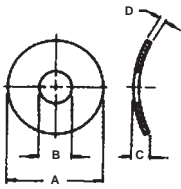
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CRESCENT SPRING WASHERS

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.				
3	.102	.112	.235	.245	.055	.075	.008	4.73	.008	U-0102-0235-008
3	.104	.114	.193	.213	.024	.040	.005	17	.010	U-0104-0193-005
3	.104	.114	.240	.260	.054	.070	.005	21	.015	U-0104-0240-005
3	.106	.116	.208	.228	.015	.035	.003			U-0106-0208-003
3	.106	.116	.427	.447	.083	.103	.003			U-0106-0427-003
3	.107	.117	.210	.230	.017	.033	.003	6	.020	U-0107-0210-003
3	.107	.117	.230	.250	.032	.048	.010	7.8	.007	U-0107-0230-010
3	.107	.117	.263	.283	.039	.055	.005	2.2	.018	U-0107-0263-005
3	.107	.117	.365	.385	.080	.100	.005			U-0107-0365-005
3	.107	.117	.365	.385	.082	.098	.005	2.6	.034	U-0107-0365-005
3	.107	.117	.427	.447	.082	.098	.005	2.7	.047	U-0107-0427-005
3	.108	.116	.235	.245	.033	.053	.010	7.11	.006	U-0108-0245-010
3	.109	.119	.240	.260	.035	.055	.010			U-0109-0240-010
3	.109	.119	.365	.385	.068	.088	.006			U-0109-0365-006
3	.110	nom	.220	nom	.022	.043	.012			U-0110-0220-012
3	.111	.121	.170	.190	.030	.050	.006			U-0111-0170-006
3	.112	.122	.303	.323	.039	.055	.008	5.9	.015	U-0112-0303-008
3	.113	.123	.193	.213	.024	.040	.005	15	.010	U-0113-0193-005
3	.114	.124	.240	.260	.024	.040	.010	7.7	.008	U-0114-0240-010
3	.115	.118	.240	.260	.037	.057	.006	2.56	.012	U-0115-0240-006
3	.115	.118	.240	.260	.037	.057	.008	4.56	.009	U-0115-0240-008
4	.117	.127	.240	.260	.028	.044	.016	19.2	.005	U-0117-0240-016
4	.117	.127	.367	.387	.052	.068	.007	4.9	.025	U-0117-0367-007
4	.117	.127	.368	.388	.045	.065	.008			U-0117-0368-008
4	.117	.127	.368	.388	.039	.055	.008	6.4	.022	U-0117-0368-008
4	.118	.124	.235	.245	.031	.056	.008	4.23	.008	U-0118-0235-008
4	.118	.124	.420	.430	.040	.060	.035	116.83	.006	U-0118-0420-035
4	.119	.129	.529	.549	.105	.125	.011			U-0119-0529-011
4	.120	.130	.190	.210	.032	.048	.008	35	.006	U-0120-0190-008
4	.120	.130	.206	.226	.023	.043	.016			U-0120-0206-016
4	.120	.130	.237	.257	.054	.070	.003	0.7	.025	U-0120-0237-003
4	.120	.130	.237	.257	.054	.070	.005	1.8	.015	U-0120-0237-005
4	.120	.130	.240	.260	.039	.055	.008	4.7	.010	U-0120-0240-008
4	.120	.130	.240	.260	.039	.055	.012	10.6	.006	U-0120-0240-012
4	.120	.130	.396	.416	.062	.078	.008	6.5	.025	U-0120-0396-008
4	.120	.130	.396	.416	.052	.072	.015			U-0120-0396-015
5	.121	.131	.177	.197	.015	.035	.010			U-0121-0177-010
5	.121	.131	.203	.223	.027	.043	.005	1.5	.011	U-0121-0203-005
5	.122	.132	.166	.186	.024	.040	.010	4.1	.004	U-0122-0166-010
5	.122	.132	.193	.213	.040	.060	.008			U-0122-0193-008
5	.122	.132	.203	.223	.027	.043	.005	1.5	.011	U-0122-0203-005
5	.122	.132	.203	.223	.010	.026	.005	1.5	.011	U-0122-0203-005
5	.122	.132	.396	.416	.042	.058	.005	2.5	.040	U-0122-0396-005

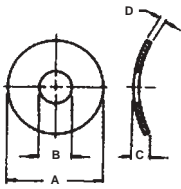
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CRESCENT SPRING WASHERS

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	.396	.416	.045	.065	.006			U-0122-0396-006
5	.122	.132	.490	.510	.058	.078	.012			U-0122-0490-012
5	.122	.128	.537	.543	.125	.140	.015	23.06	.022	U-0122-0537-015
5	.122	.128	.547	.557	.105	.125	.008	6.6	.042	U-0122-0547-008
5	.123	.133	.188	.208	.032	.048	.008	3.3	.006	U-0122-0547-008
5	.123	.133	.220	.240	.039	.055	.008	4.2	.008	U-0123-0188-008
5	.123	.133	.230	.250	.033	.049	.005	1.7	.014	U-0123-0230-005
5	.123	.133	.230	.250	.033	.049	.008	4.4	.009	U-0123-0230-008
5	.123	.133	.240	.260	.017	.033	.012	10.3	.006	U-0123-0240-012
5	.123	.133	.260	.280	.022	.038	.008	4.9	.011	U-0123-0260-008
5	.123	.133	.260	.280	.022	.038	.008	3.6	.009	U-0123-0260-008
5	.123	.133	.271	.291	.052	.072	.005			U-0123-0271-005
5	.123	.133	.365	.385	.025	.045	.015			U-0123-0365-015
5	.123	.133	.458	.478	.050	.070	.005			CU-0123-0458-005
5	.123	.133	.677	.697	.052	.072	.010			U-0123-0677-010
5	.123	.133	.737	.757	.018	.038	.003			U-0123-0737-003
5	.123	.133	.740	.760	.022	.038	.005	0.5	.025	U-0123-0740-005
5	.124	.134	.240	.260	.035	.055	.008			U-0124-0240-008
5	.125	.135	.209	.229	.037	.053	.003	0.5	.018	U-0125-0209-003
5	.125	.135	.209	.229	.021	.041	.006			U-0125-0209-006
5	.125	.135	.209	.229	.024	.040	.007	2.9	.008	U-0125-0209-007
5	.125	.135	.230	.250	.037	.053	.012	9.7	.006	U-0125-0230-012
5	.125	.130	.240	.260	.036	.056	.008	4.18	.009	U-0125-0240-008
5	.125	.135	.292	.312	.057	.073	.016	21.4	.007	U-0125-0292-016
5	.125	.135	.295	.315	.072	.092	.016			U-0125-0295-016
5	.125	.135	.297	.307	.048	.068	.017	21.95	.006	U-0125-0297-017
5	.125	.135	.458	.478	.052	.068	.005	2.6	.054	U-0125-0458-005
5	.125	.135	.677	.697	.052	.068	.010	10.3	.050	U-0125-0677-010
5	.126	.130	.232	.238	.020	.028	.004	0.97	.015	U-0126-0232-004
5	.126	.130	.235	.245	.031	.051	.005	1.56	.013	U-0126-0235-005
5	.126	.130	.235	.245	.031	.051	.008	3.98	.008	U-0126-0235-008
5	.126	.136	.240	.260	.035	.055	.006			U-0126-0240-006
5	.1260	.130	.240	.250	.031	.051	.006	2.29	.011	U-0126-0240-006
5	.126	.130	.240	.250	.031	.051	.006	2.29	.011	U-0126-0240-006
5	.126	.131	.240	.260	.020	.030	.012	9.33	.006	U-0126-0240-012
5	.126	nom	.240	nom	.026	.051	.016			U-0126-0240-016
5	.126	.131	.271	.291	.045	.055	.015	16.28	.006	U-0126-0271-015
5	.126	.136	.360	.380	.034	.050	.005	2.4	.033	U-0126-0360-005
5	.126	.136	.368	.388	.050	.070	.004			U-0126-0368-004
5	.127	.133	.220	.230	.030	.040	.008	3.6	.007	U-0127-0220-008
5	.127	.137	.280	.300	.062	.078	.010	8	.010	U-0127-0280-010
5	.127	.130	.297	.307	.052	.072	.006	2.76	.017	U-0127-0297-006
5	.127	.130	.297	.307	.070	.009	.006	2.76	.017	U-0127-0297-006

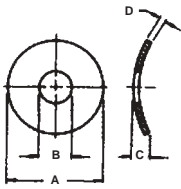
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CRESCENT SPRING WASHERS

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	.127	.130	.297	.307	.048	.068	.012	11.03	.008	U-0127-0297-012
5	.127	.130	.312	.322	.050	.070	.006	2.85	.019	U-0127-0312-006
5	.127	.135	.365	.385	.070	.090	.010	8.68	.016	U-0127-0365-010
5	.127	.137	.493	.513	.070	.086	.010	10.8	.031	U-0127-0493-010
5	.127	.137	.552	.572	.120	.140	.006			U-0127-0552-006
5	.128	.138	.237	.257	.052	.068	.005	1.7	.015	U-0128-0237-005
5	.128	.138	.240	.260	.034	.050	.005	1.7	.015	U-0128-0240-005
5	.128	.138	.240	.260	.024	.040	.006	2.5	.013	U-0128-0240-006
5	.128	.138	.275	.295	.038	.054	.006	2.8	.017	U-0128-0275-006
5	.128	.138	.275	.295	.054	.070	.006	2.8	.017	U-0128-0275-006
5	.128	.138	.302	.322	.052	.072	.005			CU-0128-0302-005
5	.128	.138	.365	.385	.052	.072	.020			U-0128-0365-020
5	.129	.139	.200	.22	.022	.038	.016	13.6	.003	U-0129-0200-016
5	.129	.139	.200	.220	.022	.038	.016	9.9	.003	U-0129-0200-016
5	.129	.139	.271	.291	.020	.040	.010			U-0129-0271-010
5	.129	.139	.275	.295	.057	.073	.006	2.8	.017	U-0129-0275-006
5	.129	.139	.427	.447	.086	.102	.010	10.2	.023	U-0129-0427-010
5	.130	.140	.235	.255	.039	.055	.004	1.1	.018	U-0130-0235-004
5	.130	.140	.235	.255	.024	.040	.006	2.4	.012	U-0130-0235-006
5	.130	.140	.240	.250	.044	.054	.004	0.96	.017	U-0130-0235-004
5	.130	.140	.271	.291	.057	.077	.005			U-0130-0271-005
5	.130	.140	.271	.291	.046	.066	.005			U-0130-0271-005
5	.130	.140	.275	.295	.054	.070	.006	2.8	.017	U-0130-0275-006
5	.130	.140	.300	.310	.027	.047	.007	3.64	.015	U-0130-0300-007
5	.130	.140	.302	.312	.022	.039	.009	6.05	.012	U-0130-0302-009
5	.130	.140	.428	.448	.084	.104	.008	5.9	.027	U-0130-0428-008
5	.131	.141	.240	.260	.034	.054	.016			U-0131-0240-016
5	.131	.137	.245	.255	.040	.050	.015	13.92	.005	U-0131-0245-015
5	.131	.141	.302	.322	.054	.070	.006	3	.02	U-0131-0302-006
5	.131	.141	.302	.322	.057	.067	.010	7.52	.011	U-0131-0302-010
5	.131	.141	.302	.322	.054	.070	.010	8.3	.012	U-0131-0302-010
5	.131	.141	.360	.380	.027	.043	.008	59	.021	U-0131-0360-008
5	.131	.141	.390	.410	.077	.093	.010	9.7	.02	U-0131-0390-010
5	.132	.142	.240	.260	.012	.028	.005	1.6	.015	U-0132-0240-005
5	.132	.142	.243	.263	.039	.055	.005	1.7	.016	U-0132-0243-005
5	.132	.142	.273	.293	.054	.070	.005	1.9	.02	U-0132-0273-005
5	.132	.142	.273	.293	.039	.055	.008	4.8	.012	U-0132-0273-008
5	.132	.142	.273	.293	.054	.070	.010	7.6	.01	5U-0132-0273-010
5	.132	.142	.297	.307	.040	.060	.008	4.66	.013	U-0132-0297-008
5	.132	.142	.297	.307	.068	.088	.010	7.28	.01	U-0132-0297-010
5	.133	.136	.280	.290	.052	.072	.005	1.76	.018	UU-0133-0280-005
5	.133	.143	.280	.290	.055	.075	.006	2.48	.015	U-0133-0280-006
5	.133	.136	.280	.290	.052	.072	.006	2.53	.015	U-0133-0280-006

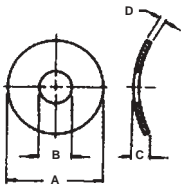
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CRESCENT SPRING WASHERS

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	.133	.143	.280	.290	.059	.079	.010	6.88	.009	U-0133-0280-010
5	.133	.143	.280	.290	.072	.092	.010	6.88	.009	U-0133-0280-010
5	.133	.143	.280	.290	.065	.075	.012	9.9	.008	U-0133-0280-012
5	.133	.143	.280	.290	.055	.075	.014	13.48	.006	U-0133-0280-014
5	.133	.143	.280	.290	.070	.085	.015	15.47	.006	U-0133-0280-015
5	.133	.143	.302	.322	.083	.103	.010			U-0133-0302-010
5	.133	.136	.307	.317	.052	.072	.008	4.85	.014	U-0133-0307-008
5	.133	.136	.307	.317	.040	.060	.012	10.92	.009	U-0133-0307-012
5	.133	.143	.365	.385	.075	.095	.005			U-0133-0365-005
5	.133	.136	.428	.448	.084	.104	.010	9.24	.021	U-0133-0428-010
5	.133	.136	.428	.448	.084	.104	.010	9.24	.021	U-0133-0428-010
5	.133	.136	.495	.505	.085	.105	.008	6.24	.035	U-0133-0495-008
5	.134	.144	.307	.327	.054	.070	.010	8.2	.012	U-0134-0307-010
5	.134	.144	.365	.385	.052	.072	.005			U-0134-0365-005
5	.135	.145	.232	.252	.034	.050	.006	2.2	.012	U-0135-0232-006
5	.135	.145	.235	.255	.026	.042	.006	1.6	.01	U-0135-0235-006
5	.135	.145	.240	.260	.050	.070	.010			U-0135-0240-010
5	.135	nom	.245	nom	.049	nom	.004	1		U-0135-0245-004
5	.135	.145	.245	.255	.017	.033	.005	1.47	.014	U-0135-0245-005
5	.135	nom	.245	nom	.034	nom	.006	2		U-0135-0245-0060
5	.135	.145	.260	.280	.021	.037	.008	4.5	.011	U-0135-0260-008
5	.135	.145	.260	.280	.021	.037	.008	3.3	.009	U-0135-0260-008
5	.135	nom	.270	nom	.038	nom	.005	1.5		U-0135-0270-005
5	.135	nom	.270	nom	.029	nom	.008	3		U-0135-0270-008
5	.135	nom	.307	nom	.037	nom	.007	4		U-0135-0307-007
5	.135	nom	.307	nom	.034	nom	.009	36		U-0135-0307-009
5	.135	nom	.307	nom	.034	nom	.009	6		U-0135-0307-009
5	.135	.140	.328	.359	.040	.060	.014	15.67	.009	U-0135-0328-014
5	.135	.145	.355	.375	.057	.073	.005	2.3	.033	U-0135-0355-005
5	.135	.145	.360	.370	.050	.080	.005	2.05	.030	U-0135-0360-005
5	.135	.145	.360	.370	.050	.070	.006	2.96	.025	U-0135-0360-006
5	.135	.145	.360	.370	.050	.080	.006	2.96	.025	U-0135-0360-006
5	.135	.145	.360	.370	.050	.080	.008	5.26	.019	U-0135-0360-008
5	.135	.145	.360	.370	.050	.080	.010	8.22	.015	U-0135-0360-010
5	.135	.145	.360	.370	.050	.080	.010	8.22	.015	U-0135-0360-010
5	.135	.145	.360	.370	.050	.080	.012	11.84	.012	U-0135-0360-012
5	.135	.145	.365	.385	.043	.063	.010			U-0135-0365-010
5	.135	.145	.396	.416	.052	.068	.005	2.4	.040	U-0135-0396-005
5	.135	.145	.480	.500	.072	.088	.020	41.9	.015	U-0135-0480-020
5	.135	.145	.485	.495	.070	.090	.020	38.1	.013	U-0135-0485-020
5	.135	.145	.552	.572	.052	.068	.012	15.9	.032	U-0135-0552-012
5	.136	.146	.203	.223	.040	.056	.008	3.2	.007	U-0136-0203-008
5	.136	.146	.271	.291	.039	.055	.008	4.7	.012	U-0136-0271-008

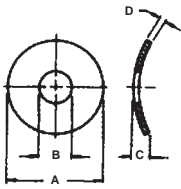
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CRESCENT SPRING WASHERS

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	.136	.146	.307	.317	.046	.066	.012	10.52	.009	U-0136-0307-012
5	.136	.146	.363	.383	.054	.070	.010	9.1	.017	U-0136-0363-010
5	.136	.146	.457	.477	.050	.066	.010	10.2	.027	U-0136-0457-010
5	.137	.143	.244	.250	.038	.046	.010	5.78	.007	U-0137-0244-010
5	.138	.148	.271	.281	.018	.028	.015	14.46	.006	U-0138-0271-015
5	.138	.142	.430	.445	.054	.070	.012	13.06	.018	U-0138-0430-012
5	.139	.149	.302	.322	.039	.055	.016	20.2	.007	U-0139-0302-0160
5	.139	.149	.302	.322	.040	.056	.016	20.2	.007	U-0139-0302-016
6	.140	.150	.235	.245	.050	.070	.015	11.88	.004	U-0140-0235-015
6	.140	.150	.302	.322	.622	.638	.003	0.5	.027	U-0140-0302-003
6	.140	.150	.365	.385	.060	.080	.006	2.94	.026	U-0140-0365-006
6	.140	.150	.480	.500	.072	.088	.005	2.6	.059	U-0140-0480-005
6	.141	.151	.271	.291	.030	.050	.013			U-0141-0271-013
6	.142	.152	.178	.198	.033	.049	.007	1.6	.006	U-0142-0178-007
6	.142	.152	.368	.388	.060	.080	.016			U-0142-0368-016
6	.142	.150	.428	.448	.070	.100	.012	12.8	.018	U-0142-0428-012
6	.142	.150	.485	.495	.060	.100	.005	2.34	.053	U-0142-0485-005
6	.142	.152	.630	.650	.054	.070	.005	1.6	.057	U-0142-0630-005
6	.143	.153	.190	.210	.052	.068	.016	9.8	.003	U-0143-0190-016
6	.143	.153	.235	.245	.030	.040	.010	5.11	.006	U-0143-0235-010
6	.143	.150	.370	.390	.070	.080	.005	2.05	.032	U-0143-0370-005
6	.143	.150	.370	.390	.040	.05	.010	8.19	.016	U-0143-0370-0100
6	.144	.154	.267	.287	.052	.068	.004	1.1	.023	U-0144-0267-004
6	.144	.154	.267	.287	.054	.070	.007	3.3	.013	U-0144-0267-007
6	.144	.148	.276	.286	.038	.048	.013	10.83	.007	U-0144-0276-013
6	.144	.154	.312	.332	.022	.038	.010	7.9	.013	U-0144-0312-010
6	.145	.155	.230	.250	.037	.053	.010	5.5	.007	U-0145-0230-010
6	.145	.155	.245	.255	.025	.035	.012	7.68	.006	U-0145-0245-012
6	.145	.155	.265	.285	.054	.070	.005	1.7	.018	U-0145-0265-005
6	.146	.157	.258	.293	.028	.055	.016	15.36	.005	U-0146-0258-016
6	.147	.153	.235	.245	.055	.075	.008	3.2	.008	U-0147-0235-008
6	.147	.153	.235	.245	.060	.074	.010	5	.006	6U-0147-0235-010
6	.147	.153	.240	.260	.051	.061	.010	5.33	.007	U-0147-0240-010
6	.147	.153	.245	.255	.040	.050	.005	1.33	.014	U-0147-0245-005
6	.147	.153	.245	.255	.041	.051	.006	1.92	.012	U-0147-0245-006
6	.147	.153	.245	.255	.043	.053	.008	3.41	.009	U-0147-0245-008
6	.147	.153	.245	.255	.046	.056	.010	5.33	.007	U-0147-0245-010
6	.147	.153	.428	.448	.085	.105	.008	5.61	.027	U-0147-0428-008
6	.148	nom	.027	nom	.035	nom	.007	2.5		U-0148-0027-007
6	.148	.158	.257	.277	.027	.043	.007	3.1	.012	U-0148-0260-005
6	.148	.158	.260	.280	.044	.060	.005	1.6	.018	U-0148-0260-005
6	.148	.158	.260	.280	.044	.060	.005	1.2	.015	U-0148-0260-005
6	.148	.158	.260	.280	.027	.043	.007	2.3	.011	U-0148-0260-007

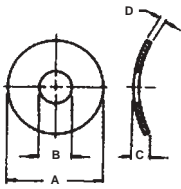
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CRESCENT SPRING WASHERS

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.				
6	.148	nom	.270	nom	.052	nom	.005	1.25		U-0148-0270-005
6	.148	.158	.299	.319	.050	.070	.015			U-0148-0299-015
6	.148	.158	.312	.332	.026	.042	.010	7.7	.013	U-0148-0312-010
6	.148	.158	.312	.332	.026	.042	.010	5.6	.011	U-0148-0312-010
6	.148	nom	.322	nom	.037	nom	.008	5		U-0148-0322-008
6	.148	nom	.322	nom	.034	nom	.010	7.5		U-0148-0322-010
6	.150	.160	.302	.322	.054	.070	.010	7.4	.012	U-0150-0302-010
6	.151	.156	.297	.307	.041	.061	.010	6.56	.01	U-0151-0297-010
6	.151	.161	.365	.385	.085	.101	.003	0.8	.057	U-0151-0365-003
6	.152	.162	.371	.391	.054	.070	.010	8.6	.018	U-0152-0371-010
6	.153	.163	.365	.385	.03	.050	.010			U-0153-0365-010
6	.153	.163	.365	.385	.025	.045	.015			U-0153-0365-015
6	.153	.163	.368	.388	.075	.095	.030			U-0153-0368-030
6	.153	.159	.432	.442	.020	.040	.006	3.09	.035	U-0153-0432-006
6	.154	.158	.245	.255	.055	.065	.006	1.8	.012	U-0154-0245-006
6	.154	.164	.356	.376	.025	.045	.015			U-0154-0356-015
6	.154	.164	.427	.447	.043	.063	.006			U-0154-0427-006
6	.154	.164	.552	.572	.062	.078	.016	26.9	.024	U-0154-0552-016
6	.155	.165	.212	.232	.031	.047	.010	4.1	.006	U-0155-0212-010
6	.155	.165	.235	.245	.033	.053	.010	4.44	.006	U-0155-0235-010
6	.155	.165	.365	.385	.042	.062	.012			U-0155-0365-012
6	.155	.165	.365	.385	.022	.042	.022			U-0155-0365-022
6	.156	.166	.239	.259	.039	.055	.005	1.3	.015	U-0156-0239-005
6	.156	.166	.239	.259	.039	.055	.007	2.5	.011	U-0156-0239-007
6	.156	.166	.239	.259	.039	.055	.010	5.2	.008	U-0156-0239-010
6	.156	.166	.291	.311	.039	.055	.005	1.7	.022	U-0156-0292-005
6	.156	.166	.292	.312	.072	.088	.005	1.7	.022	U-0156-0292-005
6	.156	.166	.365	.385	.042	.062	.012			U-0156-0365-012
8	.158	.168	.362	.382	.053	.073	.008			U-0158-0362-008
8	.159	.169	.557	.567	.060	.080	.015	21.25	.023	U-0159-0557-015
8	.160	.165	.433	.443	.041	.051	.004	1.34	.053	U-0160-0433-004
8	.160	.165	.433	.443	.041	.051	.004	1.34	.053	U-0160-0433-004
8	.161	.171	.260	.280	.022	.038	.008	3.6	.011	U-0161-0260-008
8	.161	.181	.271	.291	.025	.035	.011	6.32	.008	U-0161-0271-011
8	.162	.172	.302	.322	.020	.040	.005			U-0162-0302-005
8	.162	.172	.350	.370	.052	.072	.008			U-0162-0350-008
8	.163	.173	.270	.290	.038	.054	.010	5.9	.01	U-0163-0270-010
8	.163	.173	.362	.382	.052	.072	.008			U-0163-0362-008
8	.164	.174	.302	.322	.022	.038	.005	1.7	.024	U-0164-0302-005
8	.164	.174	.427	.447	.083	.103	.005			U-0164-0427-005
8	.164	.174	.507	.527	.052	.068	.005	2.2	.047	U-0164-0507-005
8	.164	.174	.507	.527	.082	.098	.010	9.9	.033	U-0164-0507-010
8	.164	.174	.508	.528	.054	.070	.016	25.3	.02	U-0164-0508-016

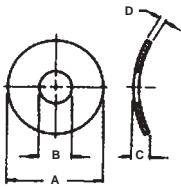
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CRESCENT SPRING WASHERS

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.				
8	.165	.170	.240	.260	.031	.037	.006	1.58	.012	U-0165-0240-006
8	.165	.175	.275	.285	.035	.040	.020	20.95	.004	U-0165-0275-020
8	.165	.175	.370	.390	.060	.080	.003			U-0165-0370-003
8	.165	.175	.395	.415	.054	.070	.010	8.5	.02	U-0165-0395-010
8	.166	.176	.240	.260	.030	.050	.015			U-0166-0240-015
8	.166	.176	.360	.370	.050	.080	.005	1.77	.03	U-0166-0360-005
8	.166	.176	.360	.370	.050	.080	.008	4.54	.019	U-0166-0360-008
8	.166	.176	.360	.370	.050	.080	.015	15.95	.01	U-0166-0360-015
8	.166	.176	.360	.370	.060	.080	.015	15.95	.01	U-0166-0360-015
8	.166	.170	.370	.380	.054	.070	.008	4.71	.02	U-0166-0370-008
8	.166	.176	.552	.572	.075	.095	.015			U-0166-0552-015
8	.166	.176	.573	.593	.099	.119	.008			U-0166-0573-008
8	.167	.177	.230	.250	.050	.070	.005			U-0167-0230-005
8	.167	.177	.231	.251	.032	.048	.006	1.5	.012	U-0167-0231-006
8	.167	.177	.292	.312	.040	.056	.005	1.6	.022	U-0167-0292-005
8	.167	.177	.334	.354	.042	.058	.006	2.6	.024	U-0167-0334-006
8	.167	.177	.355	.375	.057	.073	.005	1.9	.033	U-0167-0355-005
8	.167	.177	.522	.542	.062	.078	.016	26.1	.024	U-0167-0522-016
8	.168	.176	.235	.245	.028	.053	.006	1.36	.011	U-0168-0235-006
8	.168	.176	.235	.245	.028	.053	.006	1.36	.011	U-0168-0235-006
8	.168	.176	.235	.245	.028	.053	.008	2.42	.008	U-0168-0235-008
8	.168	.176	.235	.245	.028	.053	.010	3.41	.007	U-0168-0235-010
8	.168	.176	.235	.245	.033	.053	.010	3.78	.006	U-0168-0235-010
8	.168	.176	.240	.250	.035	.055	.010	3.97	.007	U-0168-0240-010
8	.168	.176	.297	.307	.038	.058	.007	2.81	.014	U-0168-0297-007
8	.168	.174	.307	.317	.032	.052	.008	3.86	.014	U-0168-0307-008
8	.168	.178	.333	.353	.035	.055	.005			U-0168-0333-005
8	.168	.176	.360	.370	.050	.080	.008	4.51	.019	U-0168-0360-008
8	.168	.178	.463	.483	.082	.098	.010	9.3	.027	U-0168-0463-010
8	.168	.178	.463	.483	.082	.098	.010	6.8	.023	U-0168-0463-010
8	.168	.174	.552	.572	.060	.080	.015	20.87	.023	U-0168-0552-015
8	.168	.174	.552	.572	.110	.130	.015	20.87	.023	U-0168-0552-015
8	.168	.178	.615	.635	.022	.038	.016	12.7	.014	U-0168-0615-016
8	.169	.179	.230	.250	.025	.045	.010			U-0169-0230-010
8	.169	.179	.230	.250	.030	.050	.010			U-0169-0230-010
8	.169	.179	.240	.260	.032	.048	.015	10	.005	U-0169-0240-015
8	.169	.181	.297	.333	.031	.063	.020	23.7	.006	U-0169-0297-020
8	.169	.181	.297	.333	.031	.063	.020	23.7	.006	U-0169-0297-020
8	.169	.179	.302	.322	.035	.055	.018			U-0169-0302-018
8	.169	.184	.312	.332	.054	.074	.005	1.51	.023	U-0169-0312-005
8	.169	.179	.312	.332	.056	.072	.005	1.7	.025	U-0169-0312-005
8	.169	.179	.317	.327	.059	.069	.005	1.53	.023	U-0169-0317-005
8	.169	.179	.317	.327	.037	.047	.008	3.92	.014	U-0169-0317-008

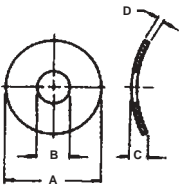
* These theoretical load values are presented only as a guide and may vary as much as 20% in specific applications.



CRESCENT 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.				
8	.169	.179	.390	.410	.022	.038	.006	2.2	.024	U-0169-0390-006
8	.169	.175	.552	.572	.062	.075	.010	9.25	.035	U-0169-0552-010
8	.170	nom	.320	nom	.031	.063	.020			U-0170-0320-020
8	.171	.181	.297	.307	.038	.058	.007	2.73	.014	U-0171-0297-007
8	.171	.181	.387	.407	.020	.040	.006			U-0171-0387-006
8	.172	.177	.240	.260	.030	.050	.015	9.06	.005	U-0172-0240-015
8	.172	.182	.983	1.003	.054	.070	.010	5.2	.052	U-0172-0983-010
8	.173	.183	.365	.385	.082	.098	.010	7.7	.017	U-0173-0365-010
8	.173	.183	.488	.508	.054	.070	.032	96.5	.009	U-0173-0488-032
8	.174	.184	.309	.329	.034	.050	.008	4.1	.016	U-0174-0309-008
8	.174	nom	.322	nom	.064	nom	.005	1.5		U-0174-0322-005
8	.174	nom	.322	nom	.064	nom	.005	1.5		U-0174-0322-005
8	.174	nom	.322	nom	.042	nom	.008	3		U-0174-0322-008
8	.174	nom	.322	nom	.039	nom	.011	9		U-0174-0322-011
8	.174	.184	.360	.380	.031	.047	.012	10.9	.014	U-0174-0360-012
8	.174	.184	.360	.380	.031	.047	.012	7.9	.012	U-0174-0360-012
8	.174	nom	.370	nom	.044	nom	.009	6		U-0174-0370-009
8	.174	nom	.370	nom	.039	nom	.011	9		U-0174-0370-011
8	.174	nom	.370	nom	.039	nom	.011	9		U-0174-0370-011
8	.174	nom	.370	nom	.039	nom	.011	9		U-0174-0370-011
8	.175	.185	.335	.345	.035	.045	.022	30.37	.006	U-0175-0335-022
8	.175	.180	.365	.385	.060	.085	.007	3.44	.022	U-0175-0365-007
8	.175	.180	.365	.385	.030	.050	.011	8.5	.014	U-0175-0365-011
8	.175	.181	.370	.380	.088	.108	.010	7	.016	U-0175-0370-010
8	.176	.186	.240	.260	.030	.050	.016			U-0176-0240-016
8	.178	.198	.552	.572	.083	.103	.010	8.87	.035	U-0178-0552-010
8	.179	.189	.362	.382	.065	.085	.005			U-0179-0362-005
8	.180	.190	.305	.325	.054	.070	.016	15.5	.008	U-0180-0325-016
8	.180	.200	.390	.410	.080	.100	.010	7	.018	U-0180-0390-010
8	.181	.185	.295	.305	.040	.070	.005	1.3	.02	U-0181-0295-005
8	.181	.201	.362	.382	.052	.072	.008			U-0181-0362-008
8	.181	.191	.365	.385	.052	.072	.010			U-0181-0365-010
8	.181	.201	.615	.635	.052	.072	.005			U-0181-0615-005
8	.182	.192	-.010	.010	.052	.068	.032	89.5	.028	U-0182-0010-032
8	.182	.192	.365	.385	.027	.043	.004	0.8	.031	U-0183-0365-004
8	.182	.192	.365	.385	.052	.072	.006			U-0182-0365-006
8	.182	.192	.365	.385	.068	.088	.015	15.04	.01	U-0182-0365-015
8	.182	.192	.428	.448	.047	.077	.011	9.25	.019	U-0182-0428-011
8	.182	.192	.430	.450	.022	.038	.010	7.1	.02	U-0182-0430-010
8	.182	.192	.430	.450	.054	.070	.010	8.4	.024	U-0182-0430-010
8	.182	.192	.552	.572	.070	.086	.008	6.3	.048	U-0182-0552-008
8	.182	.192	.615	.635	.052	.072	.005			U-0182-0615-005
10	.183	.193	.304	.324	.039	.055	.005	1.5	.024	U-0183-0304-005

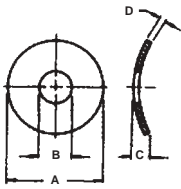
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CRESCENT SPRING WASHERS

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.				
10	.183	.203	.349	.369	.040	.060	.012			U-0183-0349-012
10	.183	.203	.365	.385	.030	.050	.003			U-0183-0365-003
10	.183	.193	.365	.385	.032	.048	.008	4.7	.021	U-0183-0365-008
10	.183	.203	.365	.385	.077	.097	.025			U-0183-0365-025
10	.183	.193	.490	.510	.084	.104	.006	3	.046	U-0183-0490-006
10	.184	.194	.265	.285	.023	.043	.006			U-0184-0265-006
10	.184	.194	.300	.320	.083	.103	.003			U-0184-0300-003
10	.184	.194	.302	.322	.054	.070	.004	0.9	.03	U-0184-0302-004
10	.184	.194	.333	.353	.023	.043	.008			U-0184-0333-008
10	.184	.194	.333	.353	.022	.038	.010	6.6	.014	U-0184-0333-010
10	.184	.194	.427	.447	.040	.060	.008			U-0184-0427-008
10	.185	.205	.302	.322	.020	.040	.010			U-0185-0302-010
10	.185	.195	.360	.380	.070	.090	.012	9.34	.013	U-0185-0360-012
10	.185	.195	.365	.385	.042	.058	.005	1.8	.034	U-0185-0365-005
10	.185	.195	.365	.385	.035	.055	.008			U-0185-0365-008
10	.185	.195	.365	.385	.045	.065	.010			U-0185-0365-010
10	.185	.195	.365	.385	.035	.055	.025			U-0185-0365-025
10	.185	.205	.427	.447	.052	.072	.005			U-0185-0427-005
10	.185	.205	.480	.500	.018	.038	.010			U-0185-0480-010
10	.185	.195	.490	.510	.083	.103	.006			U-0185-0490-006
10	.186	.196	.490	.510	.054	.070	.010	9.1	.031	U-0186-0490-010
10	.187	.207	.427	.447	.066	.086	.022			U-0187-0427-022
10	.187	.207	.552	.572	.065	.085	.010			U-0187-0552-010
10	.187	.207	.552	.572	.052	.072	.012			U-0187-0552-012
10	.188	.198	.292	.312	.048	.064	.010	5.3	.011	U-0188-0292-010
10	.188	.198	.302	.322	.058	.074	.006	2	.02	U-0188-0302-006
10	.188	.198	.310	.320	.053	.073	.007	2.53	.016	U-0188-0310-007
10	.188	.192	.338	.348	.034	.054	.005	1.49	.026	U-0188-0338-005
10	.188	.198	.365	.385	.066	.082	.004	1.1	.043	U-0188-0365-004
10	.188	.198	.365	.385	.040	.060	.005	1.62	.031	U-0188-0365-005
10	.188	.198	.365	.385	.065	.085	.005	1.62	.031	U-0188-0365-005
10	.188	.198	.365	.385	.040	.060	.006	2.33	.026	U-0188-0365-006
10	.188	.208	.365	.385	.052	.072	.008			U-0188-0365-008
10	.188	.198	.365	.385	.040	.060	.008	4.14	.02	U-0188-0365-008
10	.188	.198	.427	.447	.057	.073	.008	5.2	.029	U-0188-0427-008
10	.188	.198	.453	.484	.058	.09	.005	1.96	.049	U-0188-0453-005
10	.188	.198	.453	.484	.062	.094	.008	5.02	.03	U-0188-0453-008
10	.188	.208	.193	1.213	.140	.160	.020			U-0188-1193-020
10	.189	.199	.360	.380	.042	.058	.008	4.5	.021	U-0189-0360-008
10	.189	.199	.365	.385	.062	.078	.006	2.5	.029	U-0189-0365-006
10	.189	.199	.620	.640	.082	.098	.020	40.6	.024	U-0189-0620-020
10	.190	.200	.235	.255	.042	.058	.005	0.7	.015	U-0190-0235-005
10	.190	.200	.267	.287	.052	.068	.005	1.1	.019	U-0190-0267-005

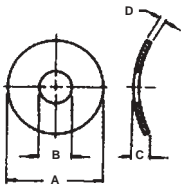
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CRESCENT SPRING WASHERS

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.				
10	.190	.210	.290	.310	.036	.056	.004			U-0190-0290-004
10	.190	.196	.297	.307	.040	.070	.010	4.81	.01	U-0190-0297-010
10	.190	.196	.297	.307	.042	.072	.012	6.93	.008	U-0190-0297-012
10	.190	.200	.302	.322	.022	.038	.010	5.5	.012	U-0190-0302-010
10	.190	.200	.318	.338	.039	.055	.006	2.1	.022	U-0190-0318-006
10	.190	.200	.340	.350	.034	.054	.012	8.35	.011	U-0190-0340-012
10	.190	.195	.365	.385	.015	.025	.005	1.62	.031	U-0190-0365-005
10	.190	.200	.370	.390	.046	.062	.003	0.6	.051	U-0190-0370-003
10	.190	.196	.370	.380	.063	.083	.005	1.62	.031	U-0190-0370-005
10	.190	.196	.370	.380	.063	.083	.006	2.33	.026	U-0190-0370-006
10	.190	.196	.370	.380	.031	.047	.006	2.33	.026	U-0190-0370-006
10	.190	.196	.370	.380	.059	.069	.008	4.14	.02	U-0190-0370-008
10	.190	.196	.370	.380	.063	.083	.008	4.14	.02	U-0190-0370-008
10	.190	.196	.370	.380	.068	.088	.008	4.14	.02	U-0190-0370-008
10	.190	.196	.370	.380	.067	.087	.010	6.47	.016	U-0190-0370-010
10	.190	.196	.370	.380	.063	.083	.015	14.56	.01	U-0190-0370-015
10	.190	.200	.370	.380	.063	.083	.015	14.4	.01	U-0190-0370-015
10	.190	.200	.370	.380	.077	.097	.025	40	.006	U-0190-0370-025
10	.190	.200	.390	.410	.052	.068	.016	19.2	.012	U-0190-0390-016
10	.190	.200	.400	.420	.040	.050	.015	15.73	.012	U-0190-0400-015
10	.190	.195	.428	.448	.070	.090	.010	7.47	.021	U-0190-0428-010
10	.190	.200	.480	.490	.080	.100	.010	7.97	.026	U-0190-0480-010
10	.190	.200	.480	.500	.022	.038	.010	6	.02	U-0190-0480-010
10	.190	.210	.520	.540	.078	.109	.010	8.3	.031	U-0190-0520-010
10	.190	.210	.520	.540	.060	.080	.010	8.3	.031	U-0190-0520-010
10	.190	.200	.552	.572	.062	.078	.008	6.1	.048	U-0190-0552-008
10	.190	.196	.557	.567	.063	.083	.025	54.72	.014	U-0190-0557-025
10	.190	.196	.558	.568	.050	.070	.006	3.15	.059	U-0190-0558-006
10	.190	.200	.558	.568	.063	.083	.008	5.58	.044	U-0190-0558-008
10	.190	.200	.558	.568	.079	.099	.008	5.58	.044	U-0190-0558-008
10	.190	.200	.558	.568	.084	.104	.012	12.55	.029	U-0190-0558-012
10	.190	.200	.588	.568	.084	.104	.013	14.93	.029	U-0190-0588-013
10	.190	.210	.677	.697	.125	.155	.015	21.27	.035	U-0190-0677-015
10	.191	.195	.295	.305	.040	.070	.005	1.19	.02	U-0191-0295-005
10	.191	.211	.333	.353	.075	.095	.012			U-0191-0333-012
10	.191	.201	.740	.760	.085	.101	.020	43.3	.034	U-0191-0740-020
10	.192	.212	.255	.275	.052	.072	.003			U-0192-0255-003
10	.193	.213	.302	.322	.052	.072	.003			U-0193-0302-003
10	.193	.213	.365	.385	.052	.072	.005			U-0193-0365-005
10	.193	.213	.427	.447	.052	.072	.010			U-0193-0427-010
10	.193	.203	.432	.452	.054	.070	.010	8.1	.024	U-0193-0432-010
10	.193	.213	.490	.510	.060	.080	.004			U-0193-0490-004
10	.193	.213	.490	.510	.052	.072	.022			U-0193-0490-022

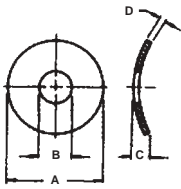
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CRESCENT SPRING WASHERS

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.				
10	.193	.199	.740	.760	.068	.088	.008	6.3	.078	U-0193-0740-008
10	.194	.204	.365	.385	.033	.049	.010	6.9	.017	U-0194-0365-010
10	.194	.204	.433	.453	.047	.063	.005	2	.048	U-0194-0433-005
10	.195	.205	.28	.290	.05	.070	.008	2.55	.011	U-0195-0280-008
10	.195	.205	.292	.312	.037	.053	.005	1.2	.022	U-0195-0292-005
10	.195	.205	.297	.307	.036	.056	.005	1.13	.02	U-0195-0297-005
10	.195	.205	.297	.307	.041	.061	.010	4.5	.01	U-0195-0297-010
10	.195	.205	.297	.307	.044	.064	.012	6.48	.008	U-0195-0297-012
10	.195	.205	.297	.307	.044	.064	.013	7.61	.008	U-0195-0297-013
10	.195	.205	.360	.380	.039	.055	.008	4.3	.021	U-0195-0360-008
10	.195	.205	.360	.380	.047	.063	.010	6.7	.017	U-0195-0360-010
10	.195	.205	.365	.385	.07	.090	.008	3.98	.02	U-0195-0365-008
10	.195	.215	.405	.425	.068	.088	.005	1.69	.038	U-0195-0405-005
10	.195	.205	.418	.428	.033	.053	.014	13.78	.014	U-0195-0418-014
10	.195	.205	.420	.440	.062	.078	.010	7.8	.023	U-0195-0420-010
10	.195	.199	.435	.445	.083	.093	.008	4.71	.027	U-0195-0435-008
10	.195	.200	.552	.572	.09	.100	.006	3.11	.058	U-0195-0552-006
10	.195	.205	.980	1.000	.054	.070	.010	5.1	.052	U-0195-0980-010
10	.196	.206	.290	.310	.042	.058	.010	4.8	.011	U-0196-0290-010
10	.196	.216	.362	.382	.052	.072	.015			U-0196-0362-015
10	.196	.206	.364	.384	0.057	.073	.005	1.7	.034	U-0196-0364-005
10	.196	.202	.365	.385	0.05	.080	.010	6.26	.016	U-0196-0365-010
10	.196	.216	.415	.435	0.06	.080	.010			U-0196-0415-010
10	.196	.216	.482	.502	0.07	.090	.008			U-0196-0482-008
10	.196	.216	.490	.510	0.075	.095	.010			U-0196-0490-010
10	.196	.216	.490	.510	0.083	.103	.015			U-0196-0490-015
10	.197	.207	.302	.322	0.054	.070	.010	5.2	.012	U-0197-0302-010
10	.197	.201	.360	.385	0.04	.070	.010	6.21	.015	U-0197-0360-010
10	.197	.217	.365	.385	0.065	.085	.010			U-0197-0365-010
10	.197	.207	.495	.515	0.054	.070	.005	2	.057	U-0197-0495-005
10	.197	.207	.495	.515	0.054	.070	.012	12.7	.026	U-0197-0495-012
10	.198	.208	.355	.375	0.024	.040	.005	1.3	.027	U-0198-0355-005
10	.198	.208	.355	.375	0.054	.070	.008	4.2	.02	U-0198-0355-008
10	.198	.208	.355	.375	0.061	.077	.010	6.5	.016	U-0198-0355-010
10	.198	.208	.355	.375	0.061	.077	.010	4.7	.014	U-0198-0355-010
10	.198	.208	.360	.370	0.05	.080	.008	3.79	.019	U-0198-0360-008
10	.198	.208	.360	.370	0.05	.080	.010	5.92	.015	U-0198-0360-010
10	.198	.208	.360	.385	0.05	.080	.010	6.07	.015	U-0198-0360-010
10	.198	.208	.360	.370	0.05	.080	.010	5.92	.015	U-0198-0360-010
10	.198	.208	.360	.390	0.073	.083	.012	8.81	.013	U-0198-0360-012
10	.198	.208	.360	.370	0.05	.080	.02	23.67	.007	U-0198-0360-020
10	.198	.208	.365	.385	0.054	.070	.005	1.7	.034	U-0198-0365-005
10	.198	.208	.365	.385	0.054	.070	.010	6.7	.017	U-0198-0365-010

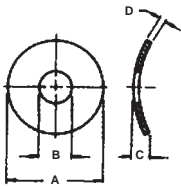
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CRESCENT SPRING WASHERS

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.				
10	.198	.208	.370	.380	.075	.085	.006	2.20	.026	U-0198-0370-006
10	.198	.208	.370	.380	.075	.085	.008	3.9	.02	U-0198-0370-008
10	.198	.208	.370	.380	.052	.072	.015	13.76	.01	U-0198-0370-015
10	.198	.208	.396	.416	.039	.055	.005	1.8	.04	U-0198-0396-005
10	.198	.208	.422	.432	.050	.080	.005	1.75	.041	U-0198-0422-005
10	.198	.208	.427	.447	.060	.080	.010	7.14	.021	U-0198-0427-010
10	.198	.208	.428	.448	.062	.078	.010	7.9	.023	U-0198-0428-010
10	.198	.208	.428	.448	.060	.080	.010	7.15	.021	U-0198-0428-010
10	.198	.208	.485	.515	.060	.100	.006	2.85	.046	U-0198-0485-006
10	.198	.208	.485	.515	.060	.100	.006	2.85	.046	U-0198-0485-006
10	.198	.208	.485	.495	.060	.100	.008	5	.033	U-0198-0485-008
10	.198	.208	.485	.495	.060	.100	.010	7.81	.027	U-0198-0485-010
10	.198	.208	.485	.495	.060	.100	.015	17.57	.018	U-0198-0485-015
10	.198	.208	.485	.495	.080	.100	.020	31.24	.013	U-0198-0485-020
10	.198	.208	.485	.495	.060	.075	.020	31.24	.013	U-0198-0485-020
10	.198	.208	.485	.495	.060	.100	.029	65.68	.009	U-0198-0485-029
10	.198	.208	.490	.510	.052	.068	.003	0.4	.057	U-0198-0490-003
10	.198	.208	.490	.510	.070	.09	.015	17.82	.019	U-0198-0490-015
10	.198	.208	.490	.510	.072	.088	.016	22.3	.019	U-0198-0491-016
10	.198	.208	.491	.511	.066	.082	.016	22.3	.019	U-0198-0539-018
10	.198	.208	.539	.559	.052	.068	.018	29.9	.02	5U-0198-0539-018
10	.198	.208	.547	.557	.060	.100	.005	2.11	.068	U-0198-0547-005
10	.198	.208	.547	.557	.060	.100	.007	4.13	.048	U-0198-0547-007
10	.198	.208	.547	.557	.060	.100	.008	5.4	.042	U-0198-0547-008
10	.198	.208	.547	.557	.060	.100	.010	8.43	.034	U-0198-0547-010
10	.198	.208	.547	.557	.060	.100	.015	18.97	.023	U-0198-0547-015
10	.198	.208	.547	.557	.060	.100	.018	27.31	.019	U-0198-0547-018
10	.198	.208	.557	.567	.065	.085	.010	8.52	.035	U-0198-0557-010
10	.198	.208	.557	.567	.068	.088	.015	19.16	.023	U-0198-0557-015
10	.198	.208	.615	.635	.095	.125	.006	3.24	.072	U-0198-0615-006
10	.199	.209	.428	.448	.062	.078	.010	7.8	.023	U-0199-0428-010
10	.199	.209	.555	.575	.044	.060	.025	58.6	.016	U-0199-0555-025
10	.199	.209	.630	.650	.037	.053	.005	1	.04	U-0199-0630-005
10	.199	.209	.874	.888	.146	.166	.025	64.04	.034	U-0199-0874-025
10	.200	.220	.297	.307	.041	.061	.010	4.06	.01	U-0200-0297-010
10	.200	.220	.356	.376	.085	.105	.006			U-0200-0356-006
10	.200	.210	.357	.377	.061	.077	.006	2.3	.027	U-0200-0357-006
10	.200	.210	.357	.377	.039	.055	.010	6.5	.016	U-0200-0357-010
10	.200	.210	.359	.379	.072	.088	.005	1.6	.033	U-0200-0359-005
10	.200	.206	.370	.380	.060	.08	.005	1.53	.031	U-0200-0370-005
10	.200	.206	.370	.380	.061	.081	.006	2.2	.026	U-0200-0370-006
10	.200	nom	.370	nom	.047	nom	.009	4.5		U-0200-0370-009
10	.200	nom	.423	nom	.047	nom	.011	9		U-0200-0423-011

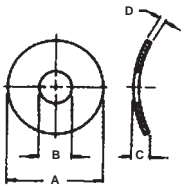
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CRESCENT SPRING WASHERS

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.				
10	.200	nom	.423	nom	.047	nom	.011	9		U-0200-0423-011
10	.200	nom	.423	nom	.043	nom	.014	13.5		U-0200-0423-014
10	.200	.210	.490	.505	.087	.107	.012	11.29	.023	U-0200-0490-012
10	.200	.210	.490	.510	.072	.088	.016	22.2	.019	U-0200-0490-016
10	.200	.206	.495	.505	.083	.103	.006	2.85	.046	U-0200-0495-006
10	.200	.210	.495	.505	.085	.105	.008	5.03	.035	U-0200-0495-008
10	.200	.210	.495	.505	.087	.107	.010	7.87	.028	U-0200-0495-010
10	.200	.206	.495	.505	.110	.110	.012	11.4	.023	U-0200-0495-012
10	.200	.206	.495	.505	.090	.110	.015	17.82	.019	U-0200-0495-015
10	.200	.206	.495	.505	.08	.100	.015	17.82	.019	U-0200-0495-015
10	.200	.210	1.000	1.02	.077	.093	.062	449.4	.02	U-0200-1000-062
10	.201	.211	.290	.310	.041	.057	.012	6.6	.009	U-0201-0290-012
10	.201	.211	.312	.332	.045	.061	.005	1	.021	U-0201-0312-005
10	.202	.212	.360	.370	.050	.080	.015	12.99	.01	U-0202-0360-015
10	.203	.213	.312	.332	.045	.061	.005	1.3	.025	U-0203-0312-005
10	.203	nom	.322	nom	.043	nom	.007	1.75		U-0203-0322-007
10	.203	.213	.360	.380	.039	.055	.010	6.4	.017	U-0203-0360-010
10	.203	.213	.360	.380	.039	.055	.010	4.7	.014	U-0203-0360-010
10	.203	.207	.365	.385	.083	.093	.009	4.9	.017	U-0203-0365-009
10	.203	nom	.370	nom	.026	nom	.005	1.12		U-0203-0370-005
10	.203	nom	.370	nom	.026	nom	.005	1.12		U-0203-0370-005
10	.203	.213	.553	.573	.054	.070	.012	13.3	.032	U-0203-0553-012
10	.204	.214	.492	.512	.040	.056	.010	8.6	.031	U-0204-0492-010
10	.206	.216	.360	.380	.044	.060	.010	6.3	.017	U-0206-0360-010
12	.209	.220	.374	.413	.040	.080	.020	24.26	.009	U-0209-0374-020
12	.209	.229	.427	.447	.065	.085	.005			U-0209-0427-005
12	.21	nom	.400	nom	.035	.071	.020			U-0210-0400-020
12	.211	.231	.396	.416	.052	.072	.005			U-0211-0396-005
12	.211	.231	.396	.416	.020	.040	.008			U-0211-0396-008
12	.215	.225	.370	.380	.066	.086	.007	2.7	.022	U-0215-0370-007
12	.215	.225	.396	.416	.052	.068	.005	1.7	.04	U-0215-0396-005
12	.215	.225	.730	.750	.122	.138	.010	10.3	.067	U-0215-0730-010
12	.215	.225	.735	.745	.125	.145	.010	9.37	.061	U-0215-0735-010
12	.215	.225	.735	.745	.055	.072	.015	21.08	.041	U-0215-0735-015
12	.215	.225	.735	.745	.125	.145	.020	37.48	.03	U-0215-0735-020
12	.215	.225	.735	.745	.135	.155	.030	84.32	.02	U-0215-0735-030
12	.218	.223	.558	.568	.085	.095	.008	5.19	.044	U-0218-0558-008
12	.220	.240	.304	.324	.037	.057	.010			U-0220-0304-010
2	.220	.240	.396	.416	.052	.072	.009			U-0220-0396-009
12	.220	.234	.490	.510	.040	.060	.010	7.28	.028	U-0220-0490-010
12	.223	.233	.302	.322	.037	.053	.010	3.9	.012	U-0223-0302-010
12	.223	.233	.365	.385	.033	.049	.010	5.7	.017	U-0223-0365-010
12	.223	.230	.428	.448	.040	.060	.005	1.61	.043	U-0223-0428-005

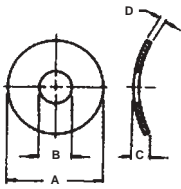
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CRESCENT SPRING WASHERS

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.				
12	.223	.233	.458	.478	.120	.130	.016	17.5	.015	U-0223-0458-016
12	.223	.233	.458	.478	.117	.133	.016	19.3	.017	U-0223-0458-016
12	.224	.244	.365	.385	.054	.074	.012			U-0224-0365-012
12	.224	.244	.427	.447	.055	.075	.010			U-0224-0427-010
12	.225	.231	.300	.320	.050	.070	.010	3.53	.011	U-0225-0300-010
12	.225	.231	.309	.315	.040	.055	.010	3.59	.011	U-0225-0309-010
12	.225	.235	.370	.380	.063	.083	.008	3.3	.02	U-0225-0370-008
12	.225	.235	.370	.380	.063	.083	.008	3.3	.02	U-0225-0370-008
12	.225	.235	.370	.380	.063	.083	.010	5.16	.016	U-0225-0370-010
12	.225	.245	.490	.510	.060	.080	.031			U-0225-0490-031
12	.226	.236	.405	.425	.049	.064	.010	5.91	.019	U-0226-0413-010
12	.226	.236	.413	.433	.042	.058	.010	6.7	.022	U-0226-0413-010
12	.226	.236	.418	.428	.071	.091	.006	2.18	.033	U-0226-0418-006
12	.227	.247	.391	.411	.036	.056	.005			U-0227-0391-005
12	.229	.249	.365	.385	.090	.110	.006			U-0229-0365-006
12	.229	.239	.428	.448	.069	.085	.01	6.8	.023	U-0229-0428-010
12	.229	.239	.620	.640	.054	.070	.012	13.3	.04	U-0229-0620-012
12	.230	.240	.315	.335	.039	.055	.010	4.1	.013	U-0230-0315-010
12	.230	.240	.320	.330	.040	.065	.012	5.32	.01	U-0230-0320-012
12	.230	.240	.320	.330	.052	.072	.020	14.77	.006	U-0230-0320-020
12	.230	.240	.400	.420	.054	.070	.010	6.3	.021	U-0230-0400-010
12	.230	.250	.615	.635	.105	.125	.015			U-0230-0615-015
12	.231	.241	.410	.430	.045	.061	.010	6.4	.022	U-0231-0410-010
12	.231	nom	.423	nom	.081	nom	.007	2.5		U-0231-0423-007
12	.231	nom	.423	nom	.053	nom	.010	5		U-0231-0423-010
12	.231	nom	.490	nom	.057	nom	.012	10		U-0231-0490-012
12	.231	nom	.490	nom	.050	nom	.015	15		U-0231-0490-015
12	.232	.236	.428	.448	.072	.092	.010	6.21	.021	U-0232-0428-010
12	.234	.244	.428	.448	.080	.105	.006	2.18	.036	U-0234-0428-006
12	.234	.244	.428	.448	.087	.103	.010	6.7	.023	U-0234-0428-010
12	.234	.244	.428	.448	.085	.105	.010	6.06	.021	U-0234-0428-010
12	.234	.244	.428	.448	.085	.105	.020	24.23	.011	U-0234-0428-020
12	.234	.244	.490	.510	.042	.058	.016	19.6	.019	U-0234-0490-016
12	.234	.240	.552	.572	.050	.080	.010	7.71	.035	U-0234-0552-010
12	.234	.244	.615	.635	.092	.108	.016	23.2	.03	U-0234-0615-016
12	.237	.243	.398	.408	.045	.065	.007	2.64	.026	U-0237-0398-007
1/4	.240	.260	.490	.510	.052	.072	.015			U-0240-0490-015
1/	.240	.260	.740	.760	.062	.082	.006			U-0240-0740-006
1/4	.242	.262	.552	.572	.100	.120	.015			U-0242-0552-015
1/4	.243	.263	.365	.385	.040	.060	.010			U-0243-0365-010
1/4	.243	.263	.427	.447	.020	.040	.007			U-0243-0427-007
1/4	.243	.263	.865	.885	.052	.072	.030			U-0243-0865-030
1/4	.245	.265	.362	.382	.040	.060	.015			U-0245-0362-015

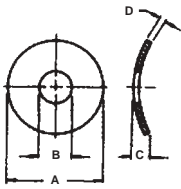
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CRESCENT SPRING WASHERS

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.				
1/4	.245	.255	.427	.447	.039	.055	.010	6.3	.023	U-0245-0427-010
1/4	.245	.255	.427	.447	.082	.098	.010	6.3	.023	U-0245-0427-010
1/4	.245	.255	.485	.505	.117	.133	.007	3.6	.043	U-0245-0485-007
1/4	.245	.255	.490	.510	.070	.086	.006	2.6	.051	U-0245-0490-006
1/4	.245	.255	.552	.572	.070	.086	.020	32.6	.019	U-0245-0552-020
1/4	.245	.255	.615	.635	.070	.086	.020	35.2	.024	U-0245-0615-020
1/4	.246	.266	.396	.416	.022	.042	.009			U-0246-0396-009
1/4	.246	.266	.438	.458	.037	.057	.010			U-0246-0438-010
1/4	.246	.256	.552	.572	.029	.045	.007	2.2	.030	U-0246-0552-007
1/4	.246	.256	.740	.760	.062	.078	.032	99.9	.021	U-0246-0740-032
1/4	.246	.266	.865	.885	.035	.055	.010			U-0246-0865-010
1/4	.247	.267	.362	.382	.060	.080	.008			U-0247-0362-008
1/4	.247	.267	.394	.414	.022	.042	.003			U-0247-0394-003
1/4	.247	.257	1.055	1.075	.085	.101	.016	25.5	.077	U-0247-1055-016
1/4	.248	.258	.396	.416	.022	.038	.005	0.9	.025	U-0248-0396-005
1/4	.248	.258	.459	.479	.039	.055	.047	5.5	.036	U-0248-0459-047
1/4	.249	.269	.349	.369	.060	.080	.010			U-0249-0349-010
1/4	.249	.259	.485	.505	.092	.108	.016	18.3	.019	U-0249-0485-016
1/4	.249	.259	.487	.507	.092	.108	.006	2.6	.050	U-0249-0487-006
1/4	.249	.259	.487	.507	.092	.108	.010	7.2	.030	U-0249-0487-010
1/4	.249	.269	.862	.882	.090	.110	.010			U-0249-0862-010
1/4	.250	.270	.427	.447	.052	.072	.004			U-0250-0427-004
1/4	.250	.260	.485	.495	.095	.115	.010	6.39	.027	U-0250-0485-010
1/4	.250	.270	.487	.507	.080	.100	.010			U-0250-0487-010
1/4	.250	.270	.487	.507	.035	.055	.015			U-0250-0487-015
1/4	.250	.300	.575	.625	.090	.120	.006	2.6	.067	U-0250-0575-006
1/4	.250	.260	.700	.720	.023	.039	.010	3.2	.021	U-0250-0700-010
1/4	.250	.260	.740	.760	.085	.101	.012	13.9	.057	U-0250-0740-012
1/4	.250	.260	.740	.760	.080	.100	.015	19.8	.042	U-0250-0740-015
1/4	.250	.260	.740	.760	.118	.134	.016	24.8	.043	U-0250-0740-016
1/4	.251	.261	.305	.325	.039	.055	.007	1.1	.016	U-0251-0305-007
1/4	.251	.253	.342	.346	.022	.042	.006	1.28	.022	U-0251-0342-006
1/4	.251	.261	.365	.385	.026	.042	.010	3.9	.015	U-0251-0365-010
1/4	.251	.261	.396	.416	.024	.040	.006	1.5	.026	U-0251-0396-006
1/4	.251	.271	.427	.447	.090	.110	.010			U-0251-0427-010
1/4	.251	.271	.427	.447	.036	.056	.010			U-0251-0427-010
1/4	.251	.257	.490	.510	.083	.103	.006	2.36	.046	U-0251-0490-006
1/4	.251	.257	.490	.510	.083	.103	.007	3.21	.040	U-0251-0490-007
1/4	.251	.271	.490	.510	.048	.068	.010			U-0251-0490-010
1/4	.251	.257	.490	.510	.087	.107	.010	6.56	.028	U-0251-0490-010
1/4	.251	.254	.620	.630	.053	.073	.013	13.43	.033	U-0251-0620-013
1/4	.252	.272	.365	.385	.040	.060	.013			U-0252-0365-013
1/4	.252	.264	.411	.455	.040	.079	.020	21.56	.010	U-0252-0411-020

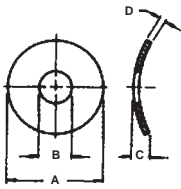
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CRESCENT SPRING WASHERS

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.				
1/4	.252	.262	.428	.448	.032	.048	.005	1.1	.035	U-0252-0428-005
1/4	.252	.262	.428	.448	.037	.057	.015	12.4	.014	U-0252-0428-015
1/4	.252	.262	.428	.448	.039	.055	.016	15.5	.015	U-0252-0428-016
1/4	.252	.262	.428	.448	.067	.087	.029	46.34	.007	U-0252-0428-029
1/4	.252	.255	.433	.443	.020	.040	.007	2.75	.03	U-0252-0433-007
1/4	.252	.257	.433	.443	.063	.083	.012	8.04	.018	U-0252-0433-012
1/4	.253	.273	.365	.385	.035	.055	.013			U-0253-0365-013
1/4	.253	.273	.365	.385	.026	.046	.013			U-0253-0365-013
1/4	.253	.256	.396	.416	.079	.094	.018	16.12	.01	U-0253-0396-018
1/4	.253	.273	.427	.447	.035	.055	.020			U-0253-0427-020
1/4	.253	.256	.433	.443	.023	.053	.008	3.58	.027	U-0253-0433-008
1/4	.253	.256	.433	.443	.020	.040	.008	3.58	.027	U-0253-0433-008
1/4	.253	.255	.463	.473	.054	.070	.005	1.52	.049	U-0253-0463-005
1/4	.253	.263	.670	.690	.072	.088	.010	9.1	.057	U-0253-0670-010
1/4	.253	.273	.740	.760	.065	.085	.040			U-0253-0740-040
1/4	.254	.262	.365	.385	.083	.093	.009	3.37	.017	U-0254-0365-009
1/4	.254	.274	.380	.400	.065	.085	.003			U-0254-0380-003
1/4	.254	.264	.396	.416	.054	.070	.018	17.2	.011	U-0254-0396-018
1/4	.254	.258	.420	.440	.085	.095	.012	7.77	.017	U-0254-0420-012
1/4	.254	.258	.420	.440	.085	.095	.012	7.77	.017	U-0254-0420-012
1/4	.254	.256	.428	.438	.080	.100	.007	2.69	.030	U-0254-0428-007
1/4	.254	.260	.490	.510	.083	.103	.006	2.33	.046	U-0254-0490-006
1/4	.254	.264	.552	.572	.072	.088	.018	25.6	.021	U-0254-0552-018
1/4	.254	.264	.681	.701	.062	.078	.006	2.2	.064	U-0254-0681-006
1/4	.255	.265	.365	.385	.077	.093	.003	0.4	.057	U-0255-0365-003
1/4	.255	nom	.430	nom	.043	.087	.020			U-0255-0430-020
1/4	.255	.275	.480	.500	.070	.090	.006			U-0255-0480-006
1/4	.255	.265	.4850	.505	.117	.133	.007	3.4	.043	U-0255-0485-007
1/4	.255	.265	.490	.510	.072	.088	.007	3.4	.044	U-0255-0490-007
1/4	.255	.275	.490	.510	.060	.080	.010			U-0255-0490-010
1/4	.255	.275	.490	.510	.120	.140	.010			U-0255-0490-010
1/4	.255	.265	.495	.505	.081	.111	.015	14.4	.019	U-0255-0495-015
1/4	.255	.265	.498	.518	.047	.063	.016	18.3	.020	U-0255-0498-016
1/4	.255	.275	.541	.561	.042	.062	.018	22.42	.019	U-0255-0541-018
1/4	.255	.265	.547	.578	.052	.072	.018	23.23	.020	U-0255-0547-018
1/4	.255	.275	.615	.635	.052	.072	.010			U-0255-0615-010
1/4	.255	.275	.615	.635	.070	.090	.012			U-0255-0615-012
1/4	.256	.266	.428	.448	.040	.060	.005	1.35	.043	U-0256-0428-005
1/4	.256	.266	.428	.448	.040	.060	.006	1.94	.036	UU-0256-0428-006
1/4	.256	.266	.428	.448	.035	.055	.008	3.45	.027	U-0256-0428-008
1/4	.256	.266	.428	.448	.037	.057	.010	5.39	.021	U-0256-0428-010
1/4	.256	.266	.428	.448	.039	.059	.012	7.76	.018	U-0256-0428-012
1/4	.256	.266	.428	.448	.047	.067	.020	21.55	.011	U-0256-0428-020

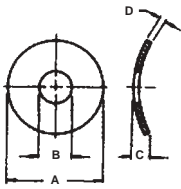
* These theoretical load values are presented only as a guide and may vary as much as 20% in specific applications.



CRESCENT 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.				
1/4	.256	.266	.430	.450	.082	.098	.010	6	.024	U-0256-0430-010
1/4	.256	.266	.430	.450	.082	.098	.010	4.3	.020	U-0256-0430-010
1/4	.256	.266	.437	.448	.037	.057	.010	5.47	.022	U-0256-0437-010
1/4	.256	.266	.457	.557	.045	.075	.010	6.47	.029	U-0256-0457-010
1/4	.256	.276	.490	.510	.052	.072	.007			U-0256-0490-007
1/4	.256	.257	.521	.541	.075	.080	.030	62.03	.010	U-0256-0521-030
1/4	.256	.266	.541	.561	.089	.105	.012	11.1	.031	U-0256-0541-012
1/4	.256	.266	.547	.557	.080	.100	.010	7.03	.034	U-0256-0547-010
1/4	.256	.266	.547	.557	.083	.103	.013	11.88	.026	U-0256-0547-013
1/4	.256	.267	.552	.572	.045	.075	.006	2.57	.058	U-0256-0552-006
1/4	.256	.267	.552	.572	.045	.075	.006	2.57	.058	U-0256-0552-006
1/4	.256	.267	.552	.572	.045	.075	.008	4.56	.044	U-0256-0552-008
1/4	.256	.267	.552	.572	.080	.100	.010	7.13	.035	U-0256-0552-010
1/4	.256	.267	.552	.572	.050	.080	.012	10.27	.029	U-0256-0552-012
1/4	.256	.266	.730	.750	.122	.138	.010	9.5	.067	U-0256-0730-010
1/4	.256	.266	.735	.745	.120	.160	.010	8.63	.061	U-0256-0735-010
1/4	.256	.266	.740	.760	.120	.150	.010	8.69	.063	U-0256-0740-010
1/4	.256	.266	.865	.885	.052	.068	.032	100.9	.028	U-0256-0865-032
1/4	.256	.276	1.487	1.507	.220	.240	.022			U-0256-1487-022
1/4	.257	.267	.368	.388	.054	.070	.005	1.1	.035	U-0257-0368-005
1/4	.257	.267	.368	.388	.054	.070	.010	4.5	.017	U-0257-0368-010
1/4	.257	.263	.396	.408	.040	.060	.008	3.01	.022	U-0257-0396-008
1/4	.257	.259	.404	.408	.037	.057	.010	4.86	.018	U-0257-0404-010
1/4	.257	.267	.428	.448	.042	.058	.010	5.9	.023	U-0257-0428-010
1/4	.257	.262	.485	.515	.035	.045	.005	1.6	.056	U-0257-0485-005
1/4	.257	.262	.485	.515	.047	.077	.008	4.1	.035	U-0257-0485-008
1/4	.257	.262	.490	.510	.087	.107	.010	6.41	.028	U-0257-0490-010
1/4	.257	.277	.552	.572	.052	.072	.008			U-0257-0490-010
1/4	.257	.267	.552	.572	.052	.068	.008	5	.048	U-0257-0552-008
1/4	.257	.267	.620	.630	.065	.075	.011	9.37	.039	U-0257-0552-008
1/4	.258	.268	.423	.443	.039	.055	.005	1.3	.042	U-0258-0423-005
1/4	.258	.268	.423	.443	.039	.055	.008	3.7	.029	U-0258-0423-008
1/4	.258	.268	.423	.443	.039	.055	.016	14.7	.014	U-0258-0423-016
1/4	.258	.268	.427	.447	.054	.070	.005	1.5	.047	U-0258-0427-005
1/4	.258	.268	.427	.447	.054	.070	.008	3.7	.029	U-0258-0427-008
1/4	.258	.268	.427	.447	.054	.070	.012	8.4	.019	U-0258-0427-012
1/4	.258	.278	.612	.632	.105	.125	.030			U-0258-0612-030
1/4	.259	.264	.370	.380	.099	.119	.012	5.81	.013	U-0259-0370-012
1/4	.259	.265	.485	.515	.052	.072	.005	1.59	.056	U-0259-0485-005
1/4	.260	.270	.396	.416	.036	.052	.010	5.1	.020	U-0260-0396-010
1/4	.260	.270	.396	.416	.054	.070	.010	5.1	.020	U-0260-0396-010
1/4	.260	.266	.428	.448	.030	.050	.005	1.33	.043	U-0260-0428-005
1/4	.260	.265	.428	.448	.030	.050	.008	3.42	.027	U-0260-0428-008

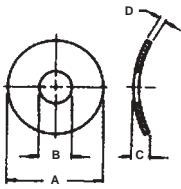
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CRESCENT SPRING WASHERS

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.				
1/4	.260	.266	.428	.448	.047	.078	.010	5.33	.021	U-0260-0428-010
1/4	.260	.270	.480	.500	.084	.100	.008	4.3	.037	U-0260-0480-008
1/4	.260	.270	.480	.500	.063	.079	.010	67	.029	U-0260-0480-010
1/4	.260	.270	.485	.495	.045	.065	.003	0.55	.089	U-0260-0485-003
1/4	.260	.270	.485	.495	.045	.065	.005	1.53	.053	U-0260-0485-005
1/4	.260	.270	.485	.495	.060	.100	.006	2.2	.044	U-0260-0485-006
1/4	.260	.270	.485	.495	.081	.101	.007	3	.038	U-0260-0485-007
1/4	.260	.270	.485	.495	.087	.095	.007	3	.038	U-0260-0485-007
1/4	.260	.270	.485	.495	.052	.072	.008	3.92	.033	U-0260-0485-008
1/4	.260	.270	.485	.495	.060	.100	.008	3.92	.033	U-0260-0485-008
1/4	.260	.270	.485	.495	.081	.101	.008	3.92	.033	U-0260-0485-008
1/4	.260	.270	.485	.495	.060	.100	.010	6.12	.027	U-0260-0485-010
1/4	.260	.270	.485	.495	.057	.077	.010	6.12	.027	U-0260-0485-010
1/4	.260	.265	.485	.515	.052	.072	.010	6.33	.028	U-0260-0485-010
1/4	.260	.270	.485	.495	.060	.100	.015	13.78	.018	U-0260-0485-015
1/4	.260	.270	.485	.515	.071	.091	.029	52.7	.01	U-0260-0485-029
1/4	.260	.270	.490	.510	.085	.095	.004	1	.069	U-0260-0490-004
1/4	.260	.270	.490	.510	.060	.090	.006	2.26	.046	U-0260-0490-006
1/4	.260	.270	.490	.510	.085	.105	.008	4.01	.035	U-0260-0490-008
1/4	.260	.270	.490	.510	.070	.090	.010	6.27	.028	U-0260-0490-010
1/4	.260	.280	.490	.510	.050	.070	.010			U-0260-0490-010
1/4	.260	.270	.490	.510	.062	.078	.020	27.6	.015	U-0260-0490-020
1/4	.260	.270	.495	.505	.068	.088	.008	4.01	.035	U-0260-0495-008
1/4	.260	.270	.498	.518	.085	.101	.010	7	.032	U-0260-0498-010
1/4	.260	.270	.498	.518	.085	.101	.016	18	.02	U-0260-0498-016
1/4	.260	.270	.498	.518	.085	.101	.028	55	.011	U-0260-0498-028
1/4	.260	.270	.542	.562	.067	.083	.008	4.9	.047	U-0260-0542-008
1/4	.260	.270	.547	.557	.060	.100	.008	4.44	.042	U-0260-0547-008
1/4	.260	.270	.552	.572	.117	.133	.025	48.4	.015	U-0260-0552-025
1/4	.260	.270	.615	.635	.067	.083	.016	21.6	.03	U-0260-0615-016
1/4	.261	.271	.428	.448	.052	.072	.009	4.24	.024	U-0261-0428-009
1/4	.263	.273	.410	.430	.060	.076	.006	1.9	.036	U-0263-0410-006
1/4	.263	.273	.547	.557	.100	.130	.010	6.86	.034	U-0263-0547-010
1/4	.263	.273	.547	.557	.100	.130	.015	15.43	.023	U-0263-0547-015
1/4	.263	.267	.552	.572	.115	.135	.025	44.04	.014	U-0263-0552-025
1/4	.264	.274	.413	.433	.067	.083	.006	1.9	.036	U-0264-0413-006
1/4	.264	.274	.425	.445	.060	.076	.010	5.6	.023	U-0264-0425-010
1/4	.264	.274	.480	.500	.077	.093	.008	4.2	.037	U-0264-0480-008
1/4	.264	.274	.480	.500	.062	.078	.010	6.6	.029	U-0264-0480-010
1/4	.264	.274	.480	.500	.057	.073	.010	4.8	.025	U-0264-0480-010
1/4	.265	.275	.370	.390	.052	.068	.010	4.2	.018	U-0265-0370-010
1/4	.265	.275	.477	.497	.083	.099	.008	4.2	.036	U-0265-0477-008
1/4	.265	.275	.477	.497	.055	.071	.010	6.5	.029	U-0265-0477-010

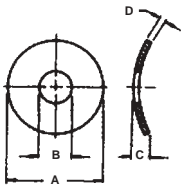
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CRESCENT SPRING WASHERS

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.				
1/4	.265	nom	.490	nom	.091	nom	.008	3.5		U-0265-0490-008
1/4	.265	.275	.490	.510	.052	.068	.010	6.7	.031	U-0265-0490-010
1/4	.265	nom	.490	nom	.063	nom	.011	7		U-0265-0490-011
1/4	.265	.275	.490	.510	.052	.068	.020	27	.015	U-0265-0490-020
1/4	.265	nom	.551	nom	.060	nom	.015	14		U-0265-0551-015
1/4	.265	nom	.551	nom	.052	nom	.019	21		U-0265-0551-019
1/4	.265	nom	.551	nom	.052	nom	.019	21		U-0265-0551-019
1/4	.266	.285	.561	.581	.098	.108	.008	4.42	.045	U-0266-0561-008
1/4	.267	.277	.404	.408	.070	.090	.005	1.1	.037	U-0267-0404-005
1/4	.267	.277	.404	.408	.060	.075	.005	1.1	.037	U-0267-0404-005
1/4	.267	.277	.404	.408	.070	.09	.006	1.58	.031	U-0267-0404-006
1/4	.267	.277	.486	.506	.052	.068	.010	6.6	.03	U-0267-0486-010
1/4	.269	nom	.423	nom	.070	nom	.007	1.75		U-0269-0423-007
1/4	.269	nom	.423	nom	.055	nom	.008	2.5		U-0269-0423-008
1/4	.270	.280	.485	.515	.071	.091	.029	50.46	.01	U-0270-0485-029
1/4	.270	.280	.490	.510	.070	.090	.008	3.84	.035	U-0270-0490-008
1/4	.270	.280	.589	.609	.047	.063	.01	7.9	.044	U-0270-0589-010
1/4	.270	.280	.590	.610	.027	.043	.018	17.9	.017	U-0270-0590-018
1/4	.270	.290	.615	.635	.140	.160	.065			U-0270-0615-065
9/32	.271	.291	.390	.410	.083	.103	.003			U-0271-0390-003
9/32	.271	.291	.482	.502	.070	.090	.012			U-0271-0482-012
9/32	.271	.291	.490	.510	.052	.072	.010			U-0271-0490-010
9/32	.271	.291	.490	.510	.085	.115	.010	5.84	.028	U-0271-0490-010
9/32	.271	.291	.490	.510	.085	.115	.020	23.36	.014	U-0271-0490-020
9/32	.271	.291	.615	.635	.078	.098	.010			U-0271-0615-010
9/32	.273	.293	.740	.760	.070	.090	.016			U-0273-0740-016
9/32	.274	.294	.365	.385	.050	.070	.008			U-0274-0365-008
9/32	.274	.294	.612	.632	.090	.110	.008			U-0274-0612-008
9/32	.275	.285	.365	.385	.022	.038	.005	0.7	.025	U-0275-0365-005
9/32	.275	.285	.490	.510	.082	.098	.010	65	.031	U-0275-0490-010
9/32	.275	.285	.542	.562	.067	.083	.016	18.5	.023	U-0275-0542-016
9/32	.275	.285	.615	.635	.085	.101	.006	2.9	.080	U-0275-0615-006
9/32	.275	.285	.615	.635	.085	.101	.008	52	.060	U-0275-0615-008
9/32	.275	.285	.615	.635	.085	.101	.010	8.1	.048	U-0275-0615-010
9/32	.275	.285	.615	.635	.085	.101	.012	11.7	.040	U-0275-0615-012
9/32	.275	.285	.615	.635	.085	.101	.016	207	.030	U-0275-0615-016
9/32	.275	.285	.615	.635	.085	.101	.020	32.4	.024	U-0275-0615-020
9/32	.275	.286	.620	.630	.080	.100	.006	2.65	.072	U-0275-0620-006
9/32	.275	.286	.620	.630	.141	.156	.006	2.65	.072	U-0275-0620-006
9/32	.275	.285	.620	.630	.085	.105	.015	16.56	.029	U-0275-0620-015
9/32	.275	.285	.730	.750	.127	.143	.010	9.1	.067	U-0275-0730-010
9/32	.275	.285	.730	.750	.125	.145	.010	8.29	.061	U-0275-0730-010
9/32	.276	.286	.390	.410	.088	.104	.006	1.6	.033	U-0276-0390-006

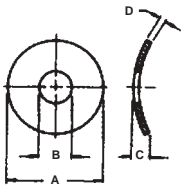
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CRESCENT SPRING WASHERS

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.				
9/32	.277	.297	.457	.477	.060	.080	.005			U-0277-0457-005
9/32	.278	.284	.485	.495	.060	.100	.006	2.05	.044	U-0278-0485-006
9/32	.278	.284	.485	.495	.088	.108	.010	5.69	.027	U-0278-0485-010
9/32	.278	.284	.485	.495	.060	.100	.012	8.19	.022	U-0278-0547-010
9/32	.278	.284	.547	.557	.063	.093	.010	6.55	.034	U-0278-0547-010
9/32	.278	.284	.547	.557	.063	.093	.015	14.73	.023	U-0278-0547-015
9/32	.278	.284	.547	.557	.060	.100	.017	18.92	.02	U-0278-0547-017
9/32	.278	.285	.615	.635	.088	.108	.020	29.31	.022	U-0278-0615-020
9/32	.278	.284	.620	.630	.078	.098	.010	7.34	.043	U-0278-0620-010
9/32	.278	.284	.620	.630	.085	.105	.012	10.57	.036	U-0278-0620-012
9/32	.281	.291	.480	.500	.060	.100	.012	7.99	.022	U-0281-0480-012
9/32	.281	.291	.495	.505	.085	.115	.016	14.61	.017	U-0281-0495-016
9/32	.282	.302	.427	.447	.062	.082	.006			U-0282-0427-006
9/32	.282	.302	.427	.447	.065	.085	.008			U-0282-0427-008
9/32	.283	.303	.490	.510	.049	.069	.012			U-0283-0490-012
9/32	.285	.295	.427	.447	.052	.068	.005	1.2	.047	U-0285-0427-005
9/32	.285	.295	.428	.448	.070	.090	.006	1.62	.036	U-0285-0428-006
9/32	.285	.305	.490	.510	.050	.070	.012			U-0285-0490-012
9/32	.287	.307	.443	.463	.052	.072	.005			U-0287-0443-005
9/32	.288	.298	.485	.495	.060	.100	.013	9.06	.021	U-0288-0485-013
9/32	.290	.300	.428	.438	.068	.088	.007	2.08	.03	U-0290-0428-007
9/3	.290	.300	.428	.438	.068	.088	.007	2.08	.03	U-0290-0428-007
9/32	.290	nom	.470	nom	.047	.094	.020			U-0290-0470-020
9/32	.291	.296	.428	.448	.030	.050	.004	0.7	.053	U-0291-0428-005
9/32	.291	.296	.428	.448	.030	.050	.005	1.1	.043	U-0291-0428-005
9/32	.291	.296	.428	.448	.055	.075	.012	6.33	.018	U-0291-0428-012
9/32	.291	.301	.541	.561	.077	.093	.010	6.8	.037	U-0291-0541-010
9/32	.291	.301	.546	.551	.091	.111	.008	3.93	.042	U-0291-0546-008
9/32	.291	.301	.546	.556	.085	.101	.008	3.95	.042	U-0291-0546-008
9/32	.291	.301	.546	.556	.060	.080	.012	8.89	.028	U-0291-0546-012
9/32	.293	.298	.396	.416	.036	.056	.013	6.13	.014	U-0293-0396-013
9/32	.293	.296	.495	.505	.054	.064	.015	12.33	.019	U-0293-0495-015
9/32	.295	.315	.396	.416	.050	.070	.009			U-0295-0396-009
9/32	.296	.306	.538	.558	.062	.078	.012	9.5	.031	U-0296-0538-012
9/32	.296	nom	.551	nom	.101	nom	.009	4		U-0296-0551-009
9/32	.296	nom	.551	nom	.070	nom	.012	8		U-0296-0551-012
9/32	.296	.306	.661	.681	.085	.101	.012	11.6	.046	U-0296-0661-012
9/32	.299	.319	.430	.450	.040	.060	.018			U-0299-0430-018
9/32	.300	.310	.383	.403	.067	.083	.016	8.4	.012	U-0300-0383-016
9/32	.300	.305	.528	.534	.046	.076	.010	5.74	.031	U-0300-0528-010
5/16	.302	.322	.443	.463	.052	.072	.020			U-0302-0443-020
5/16	.302	.322	.568	.588	.083	.103	.010			U-0302-0568-010
5/16	.302	.322	.568	.588	.080	.100	.016			U-0302-0568-016

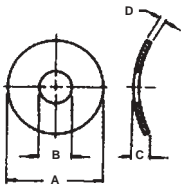
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CRESCENT SPRING WASHERS

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.				
5/16	.302	.322	.615	.635	.115	.135	.018			U-0302-0615-018
5/16	.303	.323	.492	.512	.052	.072	.032			U-0303-0492-032
5/16	.304	.324	.615	.635	.052	.072	.012			U-0304-0615-012
5/16	.305	.325	.396	.416	.090	.110	.008			U-0305-0396-008
5/16	.305	.313	.429	.437	.071	.087	.007	1.87	.030	U-0305-0429-007
5/16	.306	.316	.405	.425	.061	.077	.008	2.4	.026	U-0306-0405-008
5/16	.307	.317	.427	.447	.077	.093	.010	4.2	0.023	U-0307-0427-010
5/16	.307	.327	.487	.507	.088	.108	.018			U-0307-0487-018
5/16	.307	.317	.552	.572	.085	.101	.020	26.1	.019	U-0307-0552-020
5/16	.307	.317	.740	.760	.087	.103	.020	34.3	.034	U-0307-0740-020
5/16	.310	.320	.490	.510	.052	.068	.010	5.4	.031	U-0310-0490-010
5/16	.310	.320	.540	.560	.092	.108	.020	25.1	.018	U-0310-0540-020
5/16	.310	.330	.615	.635	.055	.075	.008			U-0310-0615-008
5/16	.310	.320	.615	.635	.054	.070	.010	7.3	.048	U-0310-0615-010
5/16	.310	.320	.615	.635	.087	.103	.010	7.3	.048	U-0310-0615-010
5/16	.311	.321	.480	.500	.032	.048	.010	5.2	.029	U-0311-0480-010
5/16	.311	.321	.614	.634	.083	.099	.010	5.3	.040	U-0311-0614-010
5/16	.311	.321	.615	.635	.090	.106	.020	29	.024	U-0311-0615-020
5/16	.312	.318	.400	.420	.050	.070	.010	3.09	.019	U-0312-0400-010
5/16	.312	.316	.490	.495	.055	.075	.008	3.09	.034	U-0312-0490-008
5/16	.312	.316	.490	.495	.055	.075	.012	6.96	.022	U-0312-0490-012
5/16	.312	.316	.490	.495	.055	.075	.013	8.17	.021	U-0312-0490-013
5/16	.312	.315	.558	.568	.068	.088	.008	3.78	.044	U-0312-0558-008
5/16	.312	.315	.568	.588	.068	.088	.008	3.9	.046	U-0312-0568-008
5/16	.313	.333	.678	.698	.084	.104	.008			U-0313-0678-008
5/16	.314	.324	.485	.495	.065	.085	.015	10.47	.018	U-0314-0485-015
5/16	.314	.324	.485	.495	.065	.085	.015	10.47	.018	U-0314-0485-015
5/16	.314	.334	.488	.508	.070	.090	.006			U-0314-0488-006
5/16	.314	.324	.490	.510	.088	.108	.007	2.37	.040	U-0314-0490-007
5/16	.314	.324	.490	.510	.088	.108	.008	3.09	.035	U-0314-0490-008
5/16	.314	.324	.490	.510	.065	.085	.015	10.86	.019	U-0314-0490-015
5/16	.314	.324	.490	.510	.067	.083	.016	13.6	.019	U-0314-0490-016
5/16	.314	.318	.490	.510	.088	.108	.018	15.9	.015	U-0314-0490-018
5/16	.314	.320	.615	.635	.088	.108	.020	26.28	.022	U-0314-0615-020
5/16	.315	.325	.450	.490	.041	.051	.008	2.72	.031	U-0315-0450-008
5/16	.315	.325	.450	.490	.041	.051	.010	4.26	.025	U-0315-0450-010
5/16	.315	.325	.485	.495	.027	.043	.006	1.67	.044	U-0315-0485-006
5/16	.315	.319	.485	.495	.031	.047	.010	4.71	.027	U-0315-0485-010
5/16	.315	.320	.550	.560	.062	.072	.005	1.43	.068	U-0315-0550-005
5/16	.315	.320	.550	.560	.095	.105	.007	2.8	.049	U-0315-0550-007
5/16	.315	.335	.615	.635	.07	.090	.006			U-0315-0615-006
5/16	.315	.335	.615	.635	.100	.120	.007			U-0315-0615-007
5/16	.315	.325	.615	.635	.072	.088	.012	10.3	.040	U-0315-0615-012

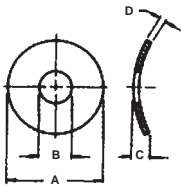
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CRESCENT SPRING WASHERS

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.				
5/16	.315	.335	.615	.635	.070	.090	.015			U-0315-0615-015
5/16	.315	.325	.620	.630	.040	.060	.005	1.63	.087	U-0315-0620-005
5/16	.315	.325	.678	.698	.072	.088	.010	7.8	.058	U-0315-0678-010
5/16	.315	.325	.745	.755	.078	.093	.012	11.07	.052	U-0315-0745-012
5/16	.315	.325	.745	.755	.080	.100	.015	17.2	.042	U-0315-0745-015
5/16	.316	.336	.488	.508	.089	.109	.006			U-0316-0488-006
5/16	.316	.326	.547	.557	.050	.080	.010	5.58	.034	U-0316-0547-010
5/16	.316	.321	.557	.567	.083	.103	.006	2.08	.058	U-0316-0557-006
5/16	.317	.337	.615	.635	.065	.085	.010			U-0317-0615-010
5/16	.318	.328	.405	.425	.054	.070	.003	0.2	.059	U-0318-0405-003
5/16	.318	.328	.405	.425	.054	.070	.008	2.1	.026	U-0318-0405-008
5/16	.318	.328	.405	.425	.054	.070	.016	8.3	.013	U-0318-0405-016
5/16	.318	.322	.415	.425	.038	.045	.004	0.51	.049	U-0318-0415-004
5/16	.318	.322	.415	.425	.070	.090	.008	2.03	.025	U-0318-0415-008
5/16	.318	.322	.415	.425	.070	.090	.008	2.03	.025	U-0318-0415-008
5/16	.318	.328	.485	.495	.065	.085	.015	10.22	.018	U-0318-0485-015
5/16	.318	.320	.68	.696	.050	.070	.005	1.79	.105	U-0318-0680-005
5/16	.318	.338	.865	.885	.035	.055	.010			U-0318-0865-010
5/16	.318	.338	.865	.885	.080	.100	.010			U-0318-0865-010
5/16	.320	.340	.550	.570	.078	.098	.008			U-0320-0550-008
5/16	.320	.330	.557	.567	.065	.082	.010	5.62	.035	U-0320-0557-010
5/16	.320	.330	.557	.567	.065	.085	.010	5.62	.035	U-0320-0557-010
5/16	.320	.330	.557	.567	.065	.082	.015	12.65	.023	U-0320-0557-015
5/16	.320	.332	.620	.630	.070	.090	.006	2.3	.072	U-0320-0620-006
5/16	.320	.332	.620	.630	.065	.085	.010	6.38	.043	U-0320-0620-010
5/16	.320	.332	.620	.630	.065	.085	.010	6.38	.043	U-0320-0620-010
5/16	.320	.330	.620	.630	.070	.090	.014	12.54	.031	U-0320-0620-014
5/16	.320	.330	.620	.630	.070	.090	.014	12.54	.031	U-0320-0620-014
5/16	.320	.332	.620	.630	.050	.070	.015	14.35	.029	U-0320-0620-0150
5/16	.320	.330	.620	.630	.047	.078	.018	20.74	.024	U-0320-0620-018
5/16	.320	.330	.620	.630	.081	.101	.025	40	.017	U-0320-0620-025
5/16	.320	.332	.620	.630	.081	.101	.025	39.87	.017	U-0320-0620-025
5/16	.320	.330	.740	.760	.052	.072	.014	14.81	.045	U-0320-0740-014
5/16	.320	.330	.740	.760	.100	.120	.015	17	.042	U-0320-0740-015
5/16	.320	.330	.740	.760	.100	.120	.015	17	.042	U-0320-0740-015
5/16	.320	.330	.740	.760	.110	.130	.020	30.22	.031	U-0320-0740-020
5/16	.320	.330	.740	.760	.110	.130	.020	30.22	.031	U-0320-0740-020
5/16	.320	.330	.740	.760	.060	.080	.022	36.57	.028	U-0320-0740-022
5/16	.321	.331	-.010	.010	.085	.101	.050	247.1	.024	U-0321-0010-050
5/16	.321	.331	.480	.500	.054	.070	.010	4.9	.029	U-0321-0480-010
5/16	.321	.341	.490	.510	.052	.072	.010			U-0321-0490-010
5/16	.322	.332	.485	.495	.060	.100	.005	1.11	.053	U-0322-0485-005
5/16	.322	.332	.485	.495	.090	.120	.005	1.11	.053	U-0322-0485-005

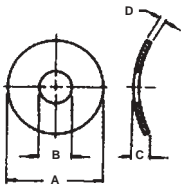
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CRESCENT SPRING WASHERS

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.				
5/16	.322	.332	.485	.495	.060	.100	.005	1.11	0.053	U-0322-0485-005
5/16	.322	.332	.485	.495	.060	.100	.006	1.6	0.044	U-0322-0485-006
5/16	.322	.332	.485	.495	.060	.100	.006	1.6	0.044	U-0322-0485-006
5/16	.322	.332	.485	.495	.060	.100	.008	2.84	0.033	U-0322-0485-008
5/16	.322	.332	.485	.495	.060	.100	.008	2.84	0.033	U-0322-0485-008
5/16	.322	.332	.485	.495	.060	.100	.013	7.5	0.021	U-0322-0485-013
5/16	.322	.332	.607	.617	.103	.123	.009	5.03	0.046	U-0322-0607-009
5/16	.322	.332	.610	.630	.077	.093	.010	6.9	0.047	U-0322-0610-010
5/16	.323	.333	.455	.465	.080	.100	.010	3.83	0.024	U-0323-0455-010
5/16	.323	.333	.490	.510	.072	.088	.008	3.2	0.038	U-0323-0490-008
5/16	.323	.333	.547	.557	.060	.100	.008	3.46	0.042	U-0323-0547-008
5/16	.323	.333	.547	.557	.060	.100	.008	3.46	0.042	U-0323-0547-008
5/16	.323	.333	.552	.572	.072	.088	.008	3.9	0.048	U-0323-0552-008
5/16	.323	.333	.552	.572	.070	.090	.008	3.55	0.044	U-0323-0552-008
5/16	.323	.333	.552	.572	.070	.087	.015	12.49	0.023	U-0323-0552-015
5/16	.323	.333	.552	.572	.117	.133	.025	382	0.015	U-0323-0552-025
5/16	.323	.333	.615	.635	.075	.085	.012	9.12	0.036	U-0323-0615-012
5/16	.323	.333	.865	.885	.172	.188	.062	352.4	0.015	U-0323-0865-062
5/16	.325	.332	.490	.510	.070	.090	.008	2.93	0.035	U-0325-0490-008
5/16	.325	.335	.595	.615	.097	.113	.012	9.6	0.037	U-0325-0595-012
5/16	.325	.335	.600	.620	.102	.118	.010	6.7	0.045	U-0325-0600-010
5/16	.325	.335	.740	.760	.179	.195	.032	84.1	0.021	U-0325-0740-032
5/16	.325	.335	.865	.885	.032	.048	.010	2.9	0.03	U-0325-0865-010
5/16	.326	.336	.612	.632	.085	.101	.006	2.5	0.079	U-0326-0612-006
5/16	.326	.336	.612	.632	.085	.101	.012	9.9	0.039	U-0326-0612-012
5/16	.326	.336	.612	.632	.085	.101	.015	15.4	0.032	U-0326-0612-015
5/16	.326	.336	.612	.632	.085	.101	.025	42.9	0.019	U-0326-0612-025
5/16	.327	.337	.599	.619	.105	.121	.008	4.3	0.057	U-0327-0599-008
5/16	.327	nom	.612	nom	.113	nom	.009	4.5		U-0327-0612-009
5/16	.327	nom	.612	nom	.077	nom	.013	9		U-0327-0612-013
5/16	.327	nom	.612	nom	.077	nom	.013	9		U-0327-0612-013
5/16	.327	nom	.735	nom	.076	nom	.017	15		U-0327-0735-017
5/16	.327	nom	.735	nom	.070	nom	.021	22.5		U-0327-0735-021
5/16	.330	.335	.430	.440	.060	.080	.012	4.52	0.018	U-0330-0430-012
5/16	.330	.340	.470	.480	.095	.110	.020	15.72	0.013	U-0330-0470-020
5/16	.330	nom	.590	nom	.067	.134	.020			U-0330-0590-020
5/16	.331	nom	.490	nom	.077	nom	.008	2.25		U-0331-0490-008
5/16	.331	nom	.490	nom	.062	nom	.011	4.5		U-0331-0490-011
5/16	.331	nom	.490	nom	.062	nom	.011	4.5		U-0331-0490-011
5/16	.333	.343	.590	.610	.083	.099	.032	65.6	0.014	U-0333-0590-032
5/16	.335	.344	.518	.531	.075	.094	.010	4.7	0.031	U-0335-0518-010
5/16	.338	.348	.495	.505	.125	.135	.008	2.68	0.035	U-0338-0495-008
5/16	.338	.348	.495	.505	.060	.070	.020	16.75	0.014	U-0338-0495-020

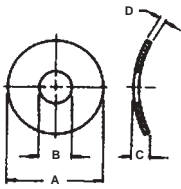
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CRESCENT SPRING WASHERS

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.				
5/16	.339	.349	.620	.630	.083	.103	.008	3.84	.054	U-0339-0620-008
5/16	.339	.349	.620	.630	.083	.103	.008	3.84	.054	U-0339-0620-008
5/16	.339	.349	.740	.760	.042	.058	.040	73.9	.01	U-0339-0740-040
5/16	.341	.351	.751	.771	.179	.195	.020	32	.035	U-0341-0751-020
5/16	.344	.354	.557	.567	.060	.090	.006	1.82	.058	U-0344-0557-006
5/16	.344	.354	.557	.567	.060	.090	.008	3.23	.044	U-0344-0557-008
5/16	.345	.350	.552	.572	.070	.090	.010	5.09	.035	U-0345-0552-010
5/16	.348	.358	.480	.495	.070	.095	.022	17.8	.012	U-0348-0480-022
5/16	.348	.358	.480	.495	.070	.095	.022	17.8	.012	U-0348-0480-022
5/16	.348	.358	.485	.495	.070	.090	.012	5.37	.022	U-0348-0485-012
5/16	.348	.368	.606	.626	.115	.135	.010			U-0348-0606-010
5/16	.352	.356	.620	.630	.090	.095	.014	11.33	.031	U-0352-0620-014
5/16	.352	.362	.735	.745	.079	.109	.029	58.04	.021	U-0352-0735-029
5/16	.353	.365	.490	.510	.075	.110	.010	3.76	.028	U-0353-0490-010
5/16	.353	.365	.490	.510	.075	.110	.010	3.76	.028	U-0353-0490-010
5/16	.355	.365	.578	.598	.125	.156	.010	5.17	.038	U-0355-0578-010
5/16	.355	.360	.620	.630	.080	.100	.010	5.71	.043	U-0355-0620-010
5/16	.355	.365	.735	.745	.100	.130	.029	57.58	.021	U-0355-0735-029
5/16	.357	.361	.557	.567	.070	.087	.010	4.82	.035	U-0357-0557-010
5/16	.358	.368	.662	.682	.072	.088	.015	15.2	.037	U-0358-0662-015
5/16	.360	.380	.463	.483	.073	.093	.007			U-0360-0463-007
5/16	.360	.380	.465	.485	.090	.110	.012			U-0360-0465-012
5/16	.363	nom	.627	nom	.120	nom	.010	5.5		U-0363-0627-010
5/16	.363	nom	.627	nom	.081	nom	.015	11		U-0363-0627-015
5/16	.363	.373	.659	.679	.073	.089	.015	14.8	.036	U-0363-0659-015
5/16	.363	.373	.662	.682	.073	.089	.016	12.4	.029	U-0363-0662-016
3/8	.365	.385	.615	.635	.052	.072	.005			U-0365-0615-005
3/8	.366	.386	1.49	1.51	.160	.180	.120			U-0366-1490-120
3/8	.366	.386	1.49	1.51	.154	.174	.120			U-0366-1490-120
3/8	.367	.387	.490	.510	.075	.095	.009			U-0367-0490-009
3/8	.368	.388	.552	.572	.070	.090	.010			U-0368-0552-010
3/8	.369	.379	.740	.760	.049	.065	.010	5	.047	U-0369-0740-010
3/8	.370	.380	.590	.610	.062	.078	.025	34.4	.018	U-0370-0590-025
3/8	.370	.390	.615	.635	.099	.119	.015			U-0370-0615-015
3/8	.370	.380	.740	.760	.132	.148	.010	7.3	.069	U-0370-0740-010
3/8	.370	.380	.740	.760	.132	.148	.020	29.3	.034	U-0370-0740-020
3/8	.370	.380	.860	.880	.101	.117	.010	8.3	.093	U-0370-0860-010
3/8	.372	.382	.455	.475	.085	.101	.006	1	.044	U-0372-0455-006
3/8	.373	.383	.675	.695	.092	.108	.005	—	—	U-0373-0675-005
3/8	.373	.393	.740	.760	.130	.150	.010			U-0373-0740-010
3/8	.373	.393	.771	.791	.115	.135	.013			U-0373-0771-013
3/8	.374	.384	.490	.510	.062	.078	.010	3.5	.031	U-0374-0490-010
3/8	.374	.384	.553	.573	.072	.088	.010	4.8	.039	U-0374-0553-010

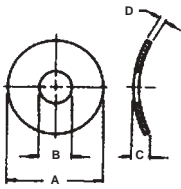
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CRESCENT SPRING WASHERS

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.				
3/8	.374	.384	.553	.573	.072	.088	.020	19.2	.019	U-0374-0553-020
3/8	.374	.388	.558	.568	.065	.082	.007	2.11	.05	U-0374-0558-007
3/8	.374	.384	.676	.696	.085	.101	.010	6.6	.058	U-0374-0676-010
3/8	.375	.395	.490	.510	.060	.080	.012			U-0375-0490-012
3/8	.375	.385	.615	.635	.050	.075	.015	11.76	.029	U-0375-0615-015
3/8	.376	.382	.526	.536	.075	.095	.010	3.82	.031	U-0376-0526-010
3/8	.376	.382	.557	.567	.060	.080	.015	9.77	.023	U-0376-0557-015
3/8	.376	.382	.558	.568	.068	.088	.007	2.14	.05	U-0376-0558-007
3/8	.376	.382	.558	.568	.083	.103	.007	1.84	.054	U-0376-0558-007
3/8	.376	.382	.558	.568	.038	.058	.008	2.79	.044	U-0376-0558-008
3/8	.376	.386	.558	.568	.055	.075	.010	4.31	.035	U-0376-0558-010
3/8	.376	.382	.558	.568	.068	.088	.010	4.36	.035	U-0376-0558-010
3/8	.376	.382	.558	.568	.070	.090	.020	17.43	.018	U-0376-0558-020
3/8	.376	.382	.673	.683	.125	.145	.010	5.88	.051	U-0376-0673-010
3/8	.376	.382	.673	.683	.135	.155	.020	23.52	.026	U-0376-0673-020
3/8	.376	.382	.735	.745	.120	.140	.005	1.63	.122	U-0376-0735-005
3/8	.376	.390	.735	.745	.120	.160	.010	6.43	.061	U-0376-0735-010
3/8	.376	.386	.735	.745	.125	.145	.010	6.47	.061	U-0376-0735-010
3/8	.376	.386	.735	.745	.127	.147	.012	9.31	.051	U-0376-0735-012
3/8	.376	.386	.735	.745	.128	.148	.013	10.93	.047	U-0376-0735-013
3/8	.377	.382	.620	.630	.085	.105	.015	11.78	.029	U-0377-0620-015
3/8	.377	.382	.640	.645	.110	.120	.015	12.28	.031	U-0377-0640-015
3/8	.378	.384	.559	.565	.065	.082	.010	4.29	.035	U-0378-0559-010
3/8	.378	.384	.559	.565	.065	.082	.015	9.66	.023	U-0378-0559-015
3/8	.378	.388	.615	.635	.070	.086	.010	5.7	.048	U-0378-0615-010
3/8	.378	.388	.681	.701	.062	.078	.008	3.6	.062	U-0378-0681-008
3/8	.380	.390	-.010	.010	.032	.048	.016	11	.024	U-0380-0010-016
3/8	.380	.400	.550	.570	.080	.100	.010	4.05	.035	U-0380-0550-010
3/8	.380	.400	.615	.635	.035	.055	.010			U-0380-0615-010
3/8	.380	.390	.620	.630	.055	.070	.010	5.12	.043	U-0380-0620-010
3/8	.380	.390	.620	.630	.060	.075	.015	11.52	.029	U-0380-0620-015
3/8	.380	.400	.650	.670	.110	.130	.010	5.45	.048	U-0380-0650-010
3/8	.380	.390	.673	.683	.125	.145	.005	1.44	.102	U-0380-0673-005
3/8	.380	.390	.673	.683	.125	.145	.008	3.69	.064	U-0380-0673-008
3/8	.380	.390	.673	.683	.125	.145	.010	5.76	.051	U-0380-0673-010
3/8	.380	.390	.730	.750	.130	.150	.008	4.09	.076	U-0380-0730-008
3/8	.380	.400	.730	.750	.080	.100	.010	6.31	.061	U-0380-0730-010
3/8	.380	.400	.737	.757	.135	.155	.020			U-0380-0737-020
3/8	.380	.390	.740	.760	.130	.150	.015	14.6	.042	U-0380-0740-015
3/8	.381	.401	.646	.666	.115	.135	.025			U-0381-0646-025
3/8	.382	.402	.552	.572	.099	.119	.015			U-0382-0552-015
3/8	.382	.386	.620	.630	.095	.115	.010	5.14	.043	U-0382-0620-010
3/8	.382	.386	.620	.630	.097	.117	.012	7.4	.036	U-0382-0620-012

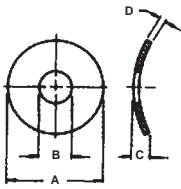
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CRESCENT SPRING WASHERS

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.				
3/8	.382	.386	.620	.630	.085	.105	.015	11.57	.029	U-0382-0620-015
3/8	.382	.386	.620	.630	.100	.120	.015	11.57	.029	U-0382-0620-015
3/8	.382	.386	.620	.630	.067	.091	.016	13.16	.027	U-0382-0620-016
3/8	.383	.403	.615	.635	.123	.143	.020			U-0383-0615-020
3/8	.383	.403	.677	.697	.125	.145	.008			U-0383-0677-008
3/8	.383	.387	.740	.760	.050	.070	.008	4.15	.078	U-0383-0740-008
3/8	.384	.404	.551	.571	.076	.096	.006			U-0384-0551-006
3/8	.384	.390	.558	.568	.055	.075	.006	1.5	.059	U-0384-0558-006
3/8	.384	.394	.620	.630	.055	.070	.003	0.45	.145	U-0384-0620-003
3/8	.384	.394	.620	.630	.082	.102	.012	7.25	.036	U-0384-0620-012
3/8	.384	.390	.620	.630	.085	.105	.015	11.42	.029	U-0384-0620-015
3/8	.384	.390	.620	.630	.100	.120	.015	11.42	.029	U-0384-0620-015
3/8	.385	.390	.497	.503	.115	.145	.008	1.92	.035	U-0385-0497-008
3/8	.385	.395	.543	.563	.067	.083	.006	1.6	.062	U-0385-0543-006
3/8	.385	.395	.547	.557	.060	.100	.006	1.41	.056	U-0385-0547-006
3/8	.385	.395	.547	.557	.060	.100	.008	2.5	.042	U-0385-0547-008
3/8	.385	.395	.547	.557	.060	.100	.017	11.31	.02	U-0385-0547-017
3/8	.385	.405	.552	.572	.080	.100	.010			U-0385-0552-010
3/8	.385	.395	.645	.665	.100	.120	.022	26.11	.022	U-0385-0645-022
3/8	.385	.395	.673	.683	.125	.145	.008	3.62	.064	U-0385-0673-008
3/8	.385	.395	.730	.750	.132	.148	.010	6.9	.067	U-0385-0730-010
3/8	.385	.395	.730	.750	.130	.150	.010	6.31	.061	3U-0385-0730-010
3/8	.385	.395	.730	.750	.120	.160	.012	9.08	.051	U-0385-0730-012
3/8	.385	.395	.730	.750	.132	.148	.020	27.7	.033	U-0385-0730-020
3/8	.385	.395	.730	.750	.130	.150	.020	25.23	.03	U-0385-0730-020
3/8	.385	.395	.735	.745	.120	.160	.008	4.04	.076	U-0385-0735-008
3/8	.385	.395	.735	.745	.120	.160	.013	10.66	.047	U-0385-0735-013
3/8	.385	.405	1.411	1.431	.115	.135	.067			U-0385-1411-067
3/8	.386	.396	.646	.666	.117	.133	.024	24.8	.018	U-0386-0646-024
3/8	.386	.396	.646	.666	.117	.133	.025	37	.021	U-0386-0646-025
3/8	.386	.396	.800	.820	.092	.108	.008	4.5	.092	U-0386-0800-008
3/8	.387	.393	.735	.745	.120	.140	.005	1.58	.122	U-0387-0735-005
3/8	.390	.410	.602	.622	.088	.108	.008			U-0390-0602-008
3/8	.390	.420	.670	.690	.100	.150	.015	12.13	.034	U-0390-0670-015
3/8	.394	.404	.726	.746	.076	.092	.016	12.5	.035	U-0394-0726-016
3/8	.395	.405	.590	.610	.085	.101	.012	7	.037	U-0395-0590-012
3/8	.395	.405	.600	.620	.100	.116	.010	5	.045	U-0395-0600-010
3/8	.395	.405	.607	.617	.038	.048	.012	6.65	.035	U-0395-0607-012
3/8	.395	.405	.722	.742	.078	.094	.016	17	.041	U-0395-0722-016
3/8	.395	nom	.735	nom	.129	nom	.011	6		U-0395-0735-011
3/8	.395	nom	.735	nom	.129	nom	.011	6		U-0395-0735-011
3/8	.395	nom	.735	nom	.086	nom	.016	12		U-0395-0735-016
3/8	.395	nom	.735	nom	.086	nom	.016	12		U-0395-0735-016

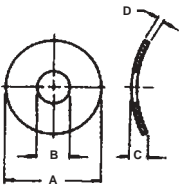
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CRESCENT SPRING WASHERS

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.				
3/8	.396	.416	.539	.559	.090	.110	.010			U-0396-0539-010
3/8	.396	.402	.571	.590	.059	.079	.010	4.17	.037	U-0396-0571-010
3/8	.396	.406	.743	.765	.081	.100	.014	12.23	.045	U-0396-0743-014
3/8	.399	.413	.743	.757	.118	.132	.015	13.76	.042	U-0399-0743-015
3/8	.399	.419	.802	.822	.115	.135	.010			U-0399-0802-010
3/8	.400	nom	.612	nom	.098	nom	.009	3		U-0400-0612-009
3/8	.400	nom	.612	nom	.074	nom	.013	6		U-0400-0612-013
3/8	.400	nom	.672	nom	.115	nom	.010	4.5		U-0400-0672-010
3/8	.400	nom	.672	nom	.079	nom	.015	9		U-0400-0672-015
3/8	.400	.410	.735	.745	.125	.165	.010	6.04	.061	U-0400-0735-010
3/8	.400	.405	.750	.755	.067	.087	.010	6.2	.063	U-0400-0750-010
3/8	.401	.411	.514	.534	.052	.068	.010	3.3	.034	U-0401-0514-010
3/8	.401	.411	.539	.559	.099	.115	.010	3.8	.037	U-0401-0539-010
3/8	.401	.411	.740	.760	.172	.202	.011	7.4	.057	U-0401-0740-011
3/8	.401	.411	.740	.760	.089	.105	.016	17.2	.043	U-0401-0740-016
3/8	.402	.414	.547	.557	.060	.100	.006	1.25	.056	U-0402-0547-006
3/8	.405	.410	.490	.510	.070	.080	.009	2	.031	U-0405-0490-009
3/8	.406	.426	.750	.770	.110	.130	.011	7.3	.058	U-0406-0750-011
3/8	.408	.428	.650	.670	.040	.060	.025			U-0408-0650-025
3/8	.410	.420	.620	.630	.086	.106	.012	6.45	.036	U-0410-0620-012
3/8	.415	nom	.710	nom	.079	.157	.032			U-0415-0710-032
3/8	.416	.426	.805	.815	.100	.120	.037	87.66	.02	U-0416-0805-037
3/8	.420	.425	.745	.755	.083	.103	.008	3.73	.078	U-0420-0745-008
3/8	.420	.425	.745	.755	.083	.103	.012	8.38	.052	U-0420-0745-012
3/8	.420	.425	.745	.755	.083	.103	.015	13.1	.042	U-0420-0745-015
3/8	.420	.430	.901	.911	.070	.100	.010	7.08	.091	U-0420-0901-010
3/8	.428	.429	.575	.590	.090	.110	.010	3.53	.038	U-0428-0575-010
7/16	.430	.450	.740	.760	.079	.099	.005			U-0430-0740-005
7/16	.430	.450	.740	.760	.130	.150	.017			U-0430-0740-017
7/16	.430	.450	.865	.885	.082	.102	.025			U-0430-0865-025
7/16	.431	.441	1.49	1.51	.122	.138	.040	166.5	.069	U-0431-1490-040
7/16	.432	.442	.620	.630	.079	.099	.017	11.59	.026	U-0432-0620-017
7/16	.433	.443	.730	.750	.132	.148	.016	15.3	.042	U-0433-0730-016
7/16	.433	.462	.837	.856	.128	.148	.010	6.28	.08	U-0433-0837-010
7/16	.433	.462	.837	.856	.128	.148	.013	10.62	.061	U-0433-0837-013
7/16	.434	.444	.613	.633	.085	.101	.012	6.2	.04	U-0434-0613-012
7/16	.435	.445	.730	.750	.130	.150	.010	5.41	.061	U-0435-0730-010
7/16	.435	.445	.730	.750	.130	.150	.017	15.62	.036	U-0435-0730-017
7/16	.435	.441	.735	.745	.150	.150	.015	12.24	.041	U-0435-0735-015
7/16	.435	.455	.771	.791	.070	.090	.025			U-0435-0771-025
7/16	.438	.458	.735	.745	.120	.160	.008	3.37	.076	U-0438-0735-008
7/16	.440	.460	.865	.885	.082	.102	.025			U-0440-0865-025
7/16	.440	.460	.875	.895	.145	.165	.008			U-0440-0875-008

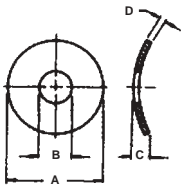
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CRESCENT SPRING WASHERS

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.				
7/16	.441	.451	.620	.630	.081	.101	.025	23.87	.017	U-0441-0620-025
7/16	.442	.452	.730	.750	.131	.151	.018	17.1	.034	U-0442-0730-018
7/16	.443	.463	.615	.635	.052	.072	.010			U-0443-0615-010
7/16	.443	.463	.678	.698	.084	.104	.007	2.23	.075	U-0443-0678-007
7/16	.443	.463	.678	.698	.084	.104	.007			U-0443-0678-007
7/16	.445	.455	.585	.605	.025	.045	.006	1.17	.066	U-0445-0585-006
7/16	.445	.455	.585	.605	.060	.080	.006	1.17	.066	U-0445-0585-006
7/16	.445	.455	.673	.683	.052	.072	.010	4.48	.051	U-0445-0673-010
7/16	.448	.458	.730	.750	.130	.150	.018	16.75	.034	U-0448-0730-018
7/16	.448	.458	.735	.745	.120	.160	.010	5.17	.061	U-0448-0735-010
7/16	.448	.483	.735	.745	.120	.160	.010	4.95	.061	U-0448-0735-010
7/16	.448	.458	.735	.765	.120	.160	.022	25.56	.028	U-0448-0735-022
7/16	.448	.458	.740	.750	.110	.140	.016	13.38	.039	U-0448-0740-016
7/16	.450	.470	.719	.739	.065	.085	.020			U-0450-0719-020
7/16	.450	.460	.730	.750	.132	.148	.010	5.6	.067	U-0450-0730-0100
7/16	.450	.470	.870	.890	.110	.130	.015	14.32	.057	U-0450-0870-015
7/16	.452	.462	.720	.730	.095	.125	.035	60.38	.017	U-0452-0720-035
7/16	.453	.468	.990	1.02	.090	.100	.032	73.97	.035	U-0453-0990-032
7/16	.455	.465	.585	.605	.090	.110	.005	0.76	.079	U-0455-0585-005
7/16	.455	.465	.585	.605	.080	.100	.008	1.94	.049	U-0455-0585-008
7/16	.455	.465	.585	.605	.115	.135	.012	4.36	.033	U-0455-0585-012
7/16	.458	.478	.677	.697	.120	.140	.005			U-0458-0677-005
7/16	.458	.478	.721	.741	.070	.090	.005			U-0458-0721-005
7/16	.46	.470	.860	.890	.125	.155	.015	14.06	.057	U-0460-0860-015
7/16	.462	.472	.844	.864	.092	.108	.018	21.5	.05	U-0462-0844-018
7/16	.462	nom	.857	nom	.152	nom	.012	7.5		U-0462-0857-012
7/16	.462	nom	.857	nom	.100	nom	.018	15		U-0462-0857-018
7/16	.462	nom	.857	nom	.100	nom	.018	15		U-0462-0857-018
7/16	.462	.482	.865	.885	.052	.072	.024			U-0462-0865-024
7/16	.462	.472	.950	.970	.099	.115	.020	30.1	.056	U-0462-0950-020
7/16	.462	.472	.950	.970	.099	.115	.020	21.9	.047	U-0462-0950-020
7/16	.462	nom	.980	nom	.107	nom	.021	22.5		U-0462-0980-021
7/16	.463	.473	.676	.696	.122	.138	.005	—	—	U-0463-0676-005
7/16	.463	.473	.740	.760	.160	.190	.034	57.95	.018	U-0463-0740-034
7/16	.465	.475	.860	.880	.108	.124	.010	6.7	.093	U-0465-0086-001
7/16	.467	nom	.672	nom	.115	nom	.010	3.75		U-0467-0672-010
7/16	.467	nom	.672	nom	.084	nom	.015	7.5		U-0467-0672-015
7/16	.467	nom	.672	nom	.084	nom	.015	7.5		U-0467-0672-015
7/16	.468	.478	.610	.620	.050	.070	.010	3.08	.042	U-0468-0610-010
7/16	.469	.479	.699	.719	.107	.123	.016	12.4	.038	U-0469-0699-016
7/16	.472	.482	.698	.718	.112	.128	.010	4.8	.061	U-0472-0698-010
7/16	.477	.497	.677	.697	.090	.110	.008			U-0477-0677-008
7/16	.478	.483	.657	.681	.094	.118	.015	8.45	.033	U-0478-0657-015

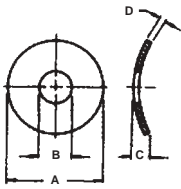
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CRESCENT SPRING WASHERS

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.				
7/16	.480	.490	.677	.697	.092	.108	.010	4.3	.058	U-0480-0677-010
7/16	.483	.493	.938	.958	.050	.070	.020	25.88	.05	U-0483-0938-020
1/2	.490	.510	.732	.752	.105	.125	.015			U-0490-0732-015
1/2	.490	.510	.802	.822	.110	.13	.032			U-0490-0802-032
1/2	.490	.510	.865	.885	.055	.075	.010			U-0490-0865-010
1/2	.490	.510	.865	.885	.08	.100	.010			U-0490-0865-010
1/2	.490	.510	.940	.960	.151	.161	.013	10.67	.077	U-0490-0940-013
1/2	.492	.512	.615	.635	.099	.119	.014			U-0492-0615-014
1/2	.493	.513	.732	.752	.130	.150	.015			U-0493-0732-015
1/2	.494	.514	.613	.633	.080	.100	.008			U-0494-0613-008
1/2	.495	.505	.608	.628	.121	.137	.012	4	.039	U-0495-0608-012
1/2	.495	.500	.812	.817	.075	.085	.010	5.19	.074	U-0495-0812-010
1/2	.497	.507	.993	1.013	.085	.101	.012	8.3	.081	U-0497-0993-012
1/2	.499	.509	.928	.948	.092	.108	.032	69.5	.034	U-0499-0928-032
1/2	.500	.520	.720	.730	.125	.155	.010	3.95	.058	U-0500-0720-010
1/2	.500	.510	.730	.750	.117	.133	.010	4.7	.067	U-0500-0730-010
1/2	.500	.510	.730	.750	.120	.140	.015	9.53	.041	U-0500-0730-015
1/2	.500	.510	.730	.750	.122	.138	.016	11.9	.042	U-0500-0730-016
1/2	.500	.510	.735	.745	.103	.133	.005	1.06	.122	U-0500-0735-005
1/2	.500	.510	.735	.745	.070	.100	.005	1.06	.122	U-0500-0735-005
1/2	.500	.510	.735	.745	.103	.133	.006	1.52	.101	U-0500-0735-006
1/2	.500	.510	.735	.745	.115	.135	.010	4.23	.061	U-0500-0735-010
1/2	.500	.510	.740	.750	.103	.133	.005	1.07	.123	U-0500-0740-005
1/2	.500	.510	.740	.750	.123	.153	.020	17.18	.031	U-0500-0740-020
1/2	.500	.510	.740	.750	.120	.160	.022	20.79	.028	U-0500-0740-022
1/2	.500	.510	.745	.755	.115	.135	.010	4.36	.063	U-0500-0745-010
1/2	.500	.510	.805	.825	.085	.101	.028	43.7	.029	U-0500-0805-028
1/2	.501	.507	.681	.705	.094	.118	.015	8.18	.036	U-0501-0681-015
1/2	.501	.510	.86	.890	.130	.140	.008	3.6	.106	U-0501-0860-008
1/2	.502	.512	.740	.760	.117	.133	.003	—	—	U-0502-0740-003
1/2	.502	.526	.957	.980	.150	.170	.014	12.26	.074	U-0502-0957-014
1/2	.502	.526	.957	.980	.155	.175	.018	20.27	.058	U-0502-0957-018
1/2	.505	.515	.615	.635	.046	.062	.010	2.5	.044	U-0505-0615-010
1/2	.505	.525	.709	.729	.075	.095	.009			U-0505-0709-009
1/2	.506	.526	.730	.750	.130	.150	.010			U-0506-0730-010
1/2	.507	.527	.740	.760	.080	.100	.013			U-0507-0740-013
1/2	.507	.527	.865	.885	.075	.095	.010			U-0507-0865-010
1/2	.508	.512	.640	.644	.115	.135	.015	6.17	.031	U-0508-0640-015
1/2	.508	.528	.661	.681	.146	.166	.010			U-0508-0661-010
1/2	.508	.528	.677	.697	.096	.116	.010			U-0508-0677-010
1/2	.508	.528	.677	.697	.035	.055	.010			U-0508-0677-010
1/2	.508	.528	.735	.755	.068	.088	.015			U-0508-0735-015
1/2	.509	.519	.864	.884	.024	.040	.020	6.2	.012	U-0509-0864-020

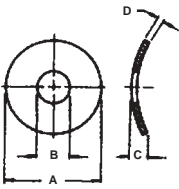
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CRESCENT SPRING WASHERS

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.				
1/2	.509	.519	.865	.885	.092	.108	.016	15.5	.058	U-0509-0865-016
1/2	.509	.519	.865	.885	.092	.108	.016	11.3	.049	U-0509-0865-016
1/2	.510	.520	.651	.661	.052	.072	.020	11.46	.024	U-0510-0651-020
1/2	.510	.520	.673	.683	.082	.090	.010	3.21	.051	U-0510-0673-010
1/2	.510	.520	.673	.683	.052	.072	.010	3.21	.051	U-0510-0673-010
1/2	.510	.520	.673	.700	.060	.090	.010	3.33	.052	U-0510-0673-010
1/2	.510	.520	.680	.700	.030	.050	.005	0.85	.106	U-0510-0680-005
1/2	.510	.520	.720	.730	.120	.160	.010	3.86	.058	U-0510-0720-010
1/2	.510	.520	.720	.730	.110	.155	.010	3.86	.058	U-0510-0720-010
1/2	.510	.520	.720	.730	.050	.080	.013	6.53	.045	U-0510-0720-013
1/2	.510	.520	.735	.745	.103	.133	.006	1.46	.101	U-0510-0735-006
1/2	.510	.520	.735	.750	.120	.160	.008	2.61	.077	U-0510-0735-008
1/2	.510	.520	.735	.750	.120	.160	.010	4.09	.061	U-0510-0735-010
1/2	.510	.520	.735	.745	.120	.160	.010	4.05	.061	U-0510-0735-010
1/2	.510	.520	.735	.745	.120	.160	.022	19.62	.028	U-0510-0735-022
1/2	.510	.525	.860	.880	.110	.150	.015	12.16	.056	U-0510-0860-015
1/2	.510	.525	.860	.880	.110	.150	.025	33.76	.034	U-0510-0860-025
1/2	.510	.520	.860	.880	.105	.135	.040	87.05	.021	U-0510-0860-040
1/2	.510	.520	.865	.885	.117	.133	.016	15.4	.058	U-0510-0865-016
1/2	.510	.520	.870	.880	.075	.105	.005	1.37	.170	U-0510-0870-005
1/2	.510	.520	.870	.880	.085	.105	.010	5.49	.085	U-0510-0870-010
1/2	.510	.520	.870	.880	.065	.095	.010	5.49	.085	U-0510-0870-010
1/2	.510	.520	.870	.880	.075	.105	.010	5.49	.085	U-0510-0870-010
1/2	.510	.520	.870	.880	.080	.095	.010	5.49	.085	U-0510-0870-010
1/2	.510	.520	.870	.880	.085	.105	.013	9.27	.065	U-0510-0870-013
1/2	.510	.520	.870	.880	.088	.108	.015	12.34	.057	U-0510-0870-015
1/2	.510	.520	.870	.880	.094	.118	.02	21.94	.043	U-0510-0870-020
1/2	.510	.520	.870	.880	.090	.120	.029	46.13	.029	U-0510-0870-029
1/2	.511	.521	.734	.754	.085	.101	.010	4.5	.068	U-0511-0734-010
1/2	.511	.521	.808	.817	.118	.132	.015	10.95	.049	U-0511-0808-015
1/2	.515	.525	.720	.740	.122	.138	.008	2.7	.081	U-0515-0720-008
1/2	.515	.525	.720	.740	.122	.138	.008	20	.068	U-0515-0720-008
1/2	.515	.525	.860	.880	.101	.117	.005	—	—	U-0515-0860-005
1/2	.515	.525	.860	.880	.101	.117	.010	5.9	.093	U-0515-0860-010
1/2	.520	.530	.870	.880	.085	.105	.017	15.41	.050	U-0520-0870-017
1/2	.520	.530	.970	.990	.100	.120	.014	12.13	.076	U-0520-0970-014
1/2	.520	.530	.970	.990	.102	.118	.020	27.2	.059	U-0520-0970-020
1/2	.520	.530	.970	.990	.100	.120	.021	27.3	.051	U-0520-0970-021
1/2	.520	.530	.975	.985	.145	.152	.014	12.13	.076	U-0520-0975-014
1/2	.520	.545	1.205	1.23	.140	.160	.025	46.89	.066	U-0520-1205-025
1/2	.521	.541	.975	.995	.146	.166	.012	8.85	.090	U-0521-0975-012
1/2	.521	.541	.990	1.01	.146	.166	.012			U-0521-0990-012
1/2	.523	.543	.693	.713	.052	.072	.015			U-0523-0693-015

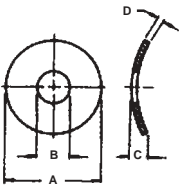
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CRESCENT SPRING WASHERS

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.				
1/2	.524	.538	1.115	1.135	.118	.132	.021	31.05	.067	U-0524-1115-021
1/2	.525	.535	.970	.990	.102	.118	.020	19.6	.049	U-0525-0970-020
1/2	.525	nom	.980	nom	.164	nom	.014	10		U-0525-0980-014
1/2	.525	nom	.980	nom	.131	nom	.018	15		U-0525-0980-018
1/2	.525	nom	.980	nom	.110	nom	.021	20		U-0525-0980-021
1/2	.525	nom	1.225	nom	.151	nom	.021	25		U-0525-1225-021
1/2	.525	nom	1.225	nom	.151	nom	.021	25		U-0525-1225-021
1/2	.526	.536	.860	.880	.115	.135	.013	8.78	.065	U-0526-0860-013
1/2	.526	.536	.860	.880	.115	.135	.015	11.69	.056	U-0526-0860-015
1/2	.526	.536	.863	.883	.148	.164	.010	5.7	.093	U-0526-0863-010
1/2	.526	.546	.865	.885	.090	.110	.025			U-0526-0865-025
1/2	.526	.536	.870	.880	.120	.130	.015	11.79	.057	U-0526-0870-015
1/2	.527	.537	.695	.710	.055	.075	.013	5.47	.042	U-0527-0695-013
1/2	.528	.548	.802	.822	.090	.110	.020			U-0528-0802-020
1/2	.531	.545	.771	.791	.115	.135	.005	1.04	.136	U-0531-0771-005
1/2	.531	.541	.785	.805	.121	.137	.010	4.8	.077	U-0531-0785-010
1/2	.531	.541	.785	.805	.121	.137	.010	3.5	.065	U-0531-0785-010
1/2	.531	nom	.795	nom	.129	nom	.011	5		U-0531-0795-011
1/2	.531	nom	.795	nom	.098	nom	.017	10		U-0531-0795-017
1/2	.532	.542	.743	.763	.085	.101	.012	6.1	.058	U-0532-0743-012
9/16	.554	.574	.833	.853	.083	.103	.008			U-0554-0833-008
9/16	.555	.565	1.235	1.245	.180	.200	.050	182.8	.034	U-0555-1235-050
9/16	.562	.567	.812	.817	.068	.088	.013	6.92	.057	U-0562-0812-013
9/16	.562	.567	.812	.817	.068	.088	.018	13.26	.041	U-0562-0812-018
9/16	.562	.567	.812	.817	.068	.088	.023	21.65	.032	U-0562-0812-023
9/16	.563	.578	.865	.885	.172	.203	.020	18.56	.043	U-0563-0865-020
9/16	.568	.588	1.177	1.197	.115	.135	.016			U-0568-1177-016
9/16	.569	.589	.802	.822	.115	.135	.016			U-0569-0802-016
9/16	.570	.590	.740	.760	.115	.135	.008	1.93	.078	U-0570-0740-008
9/16	.576	.594	.865	.885	.130	.160	.02	13.08	.033	U-0576-0865-020
9/16	.576	.594	.870	.880	.120	.150	.005	1.1	.17	U-0576-0870-005
9/16	.576	.594	.870	.880	.120	.150	.010	4.42	.085	U-0576-0870-010
9/16	.576	.594	.870	.880	.125	.155	.015	9.94	.057	U-0576-0870-015
9/16	.576	.594	.870	.880	.130	.160	.020	17.68	.043	U-0576-0870-020
9/16	.578	.593	.703	.733	.140	.180	.015	5.54	.038	U-0578-0703-015
9/16	.579	.589	.716	.736	.037	.053	.010	1.6	.035	U-0579-0716-010
9/16	.580	.590	.865	.885	.127	.143	.010	4.9	.094	U-0580-0865-010
9/16	.583	.603	.865	.885	.115	.135	.010			U-0583-0865-010
9/16	.586	.606	.847	.867	.110	.130	.020			U-0586-0847-020
9/16	.588	.608	.847	.867	.095	.115	.016			U-0588-0847-016
9/16	.590	.610	.725	.745	.085	.105	.012			U-0590-0725-012
9/16	.595	.605	.840	.860	.072	.088	.020	17.3	.044	U-0595-0840-020
9/16	.595	.605	.845	.865	.143	.159	.012	5.3	.067	U-0595-0845-012

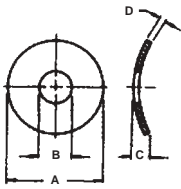
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CRESCENT SPRING WASHERS

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	.595	.605	1.345	1.355	.172	.202	.010	7.41	0.203	U-0595-1345-010
9/16	.598	.608	.844	.864	.102	.118	.018	14	0.05	U-0598-0844-018
9/16	.598	nom	.857	nom	.145	nom	.012	5.5		U-0598-0857-012
9/16	.598	nom	.857	nom	.145	nom	.012	5.5		U-0598-0857-012
9/16	.598	nom	.857	nom	.110	nom	.018	11		U-0598-0857-018
9/16	.600	.620	.865	.885	.083	.103	.013			U-0600-0865-013
9/16	.609	.619	.870	.890	.054	.070	.020	15.7	0.042	U-0609-0870-020
9/16	.618	.638	.816	.836	.099	.119	.010			U-0618-0816-010
5/8	.620	.630	.876	.886	.059	.087	.006	1.39	0.144	U-0620-0876-006
5/8	.620	.640	1.49	1.51	.110	.130	.031			U-0620-1490-031
5/8	.630	.635	1.23	1.25	.034	.049	.016	16.72	0.107	U-0630-1230-016
5/8	.631	.651	.990	1.01	.146	.166	.010			U-0631-0990-010
5/8	.635	.645	.740	.760	.042	.058	.010	1.3	0.04	U-0635-0740-010
5/8	.635	.645	.865	.885	.052	.068	.010	2.1	0.05	U-0635-0865-010
5/8	.635	.645	.990	1.01	.140	.170	.010	4.8	0.111	U-0635-0990-010
5/8	.635	.645	.990	1.01	.092	.108	.032	54.1	0.038	U-0635-0990-032
5/8	.638	.644	.745	.755	.083	.113	.010	1.94	0.063	U-0638-0745-010
5/8	.638	.644	.745	.755	.083	.113	.022	9.38	0.028	U-0638-0745-022
5/8	.638	.641	.995	1.005	.083	.133	.018	15.57	0.062	U-0638-0995-018
5/8	.640	.650	.870	.880	.053	.153	.012	5.05	0.071	U-0640-0870-012
5/8	.640	.650	.870	.880	.085	.105	.013	5.92	0.065	U-0640-0870-013
5/8	.640	.650	.870	.880	.085	.105	.013	5.92	0.065	U-0640-0870-013
5/8	.640	.650	.870	.880	.085	.105	.020	14.02	0.043	U-0640-0870-020
5/8	.643	.647	.990	1.01	.110	.130	.012	6.82	0.093	U-0643-0990-012
5/8	.646	.666	.865	.885	.083	.103	.015			U-0646-0865-015
5/8	.646	.666	.990	1.01	.130	.150	.028			U-0646-0990-028
5/8	.646	.666	1.74	1.76	.209	.229	.020			U-0646-1740-020
5/8	.653	.663	.99	1.01	.140	.156	.032	51.4	0.038	U-0653-0990-032
5/8	.653	.663	1.74	1.76	.211	.227	.020	36.6	0.187	U-0653-1740-020
5/8	.656	.666	.990	1.01	.100	.140	.010	4.52	0.111	U-0656-0990-010
5/8	.660	.670	.870	.880	.145	.175	.012	4.61	0.071	U-0660-0870-012
5/8	.660	.670	.970	.990	.092	.108	.020	18.9	0.059	U-0660-0970-020
5/8	.663	nom	.980	nom	.169	nom	.014	7		U-0663-0980-014
5/8	.663	nom	.980	nom	.118	nom	.021	14		U-0663-0980-021
5/8	.665	.675	.865	.875	.140	.16	.012	4.41	0.07	U-0665-0865-012
5/8	.668	.688	1.487	1.507	.129	.149	.031			U-0668-1487-031
5/8	.672	.703	1.24	1.26	.125	.150	.010	6	0.174	U-0672-1240-010
5/8	.676	.686	.864	.884	.102	.118	.020	13	0.047	U-0676-0864-020
5/8	.683	.693	.967	.987	.110	.126	.020	17.4	0.058	U-0683-0967-020
11/16	.705	.725	.904	.924	.065	.085	.008			U-0705-0904-008
11/16	.708	.728	1.49	1.51	.099	.119	.020			U-0708-1490-020
11/16	.710	.720	.301	.321	.054	.070	.005	1.9	0.024	U-0710-0301-005
11/16	.710	.730	.990	1.01	.105	.130	.015	8.4	0.074	U-0710-0990-015

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



CRESCENT 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.				
11/16	.715	.725	.985	1.01	.075	.115	.030	33.38	.037	U-0715-0985-030
11/16	.715	.725	.990	1.01	.145	.165	.015	8.4	.074	U-0715-0990-015
11/16	.715	.725	.990	1.01	.142	.158	.016	10.5	.076	U-0715-0990-016
11/16	.739	.759	.849	.869	.146	.166	.030			U-0739-0849-030
11/16	.740	.760	.990	1.01	.083	.103	.020			U-0740-0990-020
3/4	.743	.763	1.115	1.135	.130	.150	.032			U-0743-1115-032
3/4	.745	.750	.859	.864	.156	.188	.030	15.88	.027	U-0745-0859-030
3/4	.745	.765	.990	1.01	.120	.140	.020			U-0745-0990-020
3/4	.755	.775	.985	1.005	.070	.090	.008			U-0755-0985-008
3/4	.755	.775	1.115	1.135	.077	.091	.020	17.07	.07	U-0755-1115-020
3/4	.760	.770	.900	.920	.092	.108	.020	9.3	.051	U-0760-0900-020
3/4	.760	.770	.905	.915	.080	.120	.020	8.5	.046	U-0760-0905-020
3/4	.760	.770	1.115	1.135	.090	.106	.020	18.8	.077	U-0760-1115-020
3/4	.760	.770	1.179	1.199	.112	.128	.008	1.7	.112	U-0760-1179-008
3/4	.762	.768	.903	.909	.105	.135	.032	21.25	.029	U-0762-0903-032
3/4	.765	.785	1.07	1.09	.115	.135	.018			U-0765-1070-018
3/4	.765	.775	1.24	1.26	.179	.195	.024	23.6	.067	U-0765-1240-024
3/4	.765	.775	1.24	1.26	.179	.195	.025	35.2	.076	U-0765-1240-025
3/4	.770	.780	.990	1.02	.080	.120	.010	3.05	.112	U-0770-0990-010
3/4	.770	.780	.990	1.02	.080	.120	.015	6.87	.075	U-0770-0990-015
3/4	.773	.793	.990	1.01	.083	.103	.013			U-0773-0990-013
3/4	.776	.786	.990	1.01	.125	.141	.010	3.2	.122	U-0776-0990-010
3/4	.776	.786	.990	1.01	.097	.113	.016	8.2	.076	U-0776-0990-016
3/4	.790	.810	1.092	1.112	.170	.200	.016	9.35	.084	U-0790-1092-016
3/4	.795	.805	1.308	1.318	.172	.202	.008	3.33	.239	U-0795-1308-008
3/4	.795	.805	1.308	1.318	.172	.202	.010	5.21	.192	U-0795-1308-010
3/4	.798	.808	1.238	1.258	.035	.051	.016	3	.027	U-0798-1238-016
3/4	.800	nom	1.103	nom	.185	nom	.016	8		U-0800-1103-016
3/4	.800	nom	1.103	nom	.138	nom	.021	12		U-0800-1103-021
3/4	.813	.823	.905	.925	.102	.118	.008	0.8	.102	U-0813-0905-008
3/4	.813	.823	.905	.925	.102	.118	.008	0.7	.102	U-0813-0905-008
7/8	.833	.853	1.052	1.072	.090	.110	.009			U-0833-1052-009
7/8	.883	.903	1.088	1.108	.115	.135	.032			U-0883-1088-032
7/8	.885	.895	1.085	1.105	.085	.101	.032	28.1	.046	U-0885-1085-032
7/8	.896	.916	1.49	1.51	.115	.135	.022			U-0896-1490-022
15/16	.975	.985	1.24	1.26	.115	.170	.010	2.88	.174	U-0975-1240-010
15/16	.005	1.015	1.24	1.26	.202	.218	.012	4.1	.159	U-1005-1240-012
15/16	.060	1.07	.361	.381	.057	.073	.018	—	—	U-1060-0361-018
15/16	.062	1.072	.590	.610	.092	.108	.004	—	—	U-1062-0590-004
1-3/6	.182	1.202	1.338	1.358	.240	.260	.032			U-1182-1338-032
1-1/4	.260	1.275	1.50	1.515	.045	.075	.010	2.12	.253	U-1260-1500-010
1-1/2	.515	1.525	1.865	1.885	.178	.198	.020	10.1	.195	U-1515-1865-020
1-1/2	.885	1.895	1.083	1.103	.122	.138	.010	—	—	U-1885-1083-010

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