



Raymond® EXTRA HEAVY DUTY ISO D-LINE SPRINGS (INCH DIMENSIONS) YELLOW												
Hole Dia. (in)	Rod Dia. (in)	Free Length (in)	CATALOG NUMBER	Spring Rate per 1/10 Inch Deflection	LOAD DEFLECTION TABLE							
					Load @ 17% of free length		Load @ 20% of free length		Load @ 25% of free length		Load @ Max Recommended Deflection	Max Deflection (in)
					Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)		
A	B	C										
1	1/2	4	306-516-D	54.4	372	0.68	437	0.80	546	1.00	711	1.31
		4 1/2	306-518-D	48.5	373	0.77	439	0.91	549	1.13	731	1.51
		5	306-520-D	43.6	370	0.85	436	1.00	545	1.25	724	1.66
		5 1/2	306-522-D	39.6	368	0.93	433	1.09	541	1.37	718	1.81
		6	306-524-D	36.2	369	1.02	434	1.20	542	1.50	728	2.01
		7	306-528-D	31.1	371	1.19	437	1.40	546	1.75	752	2.41
		8	306-532-D	27.2	370	1.36	435	1.60	544	2.00	751	2.76
		12	306-548-D	18.0	367	2.04	432	2.40	540	3.00	754	4.19
1 1/4	5/8	1 1/2	306-606-D	273.1	695	0.25	817	0.30	1022	0.37	1118	0.41
		1 3/4	306-607-D	239.8	706	0.29	831	0.35	1039	0.43	1199	0.50
		2	306-608-D	200.7	685	0.34	806	0.40	1007	0.50	1177	0.59
		2 1/2	306-610-D	156.1	669	0.43	787	0.50	983	0.63	1186	0.76
		3	306-612-D	129.4	658	0.51	774	0.60	968	0.75	1192	0.92
		3 1/2	306-614-D	110.5	658	0.60	774	0.70	968	0.88	1240	1.12
		4	306-616-D	92.8	633	0.68	745	0.80	931	1.00	1136	1.22
		4 1/2	306-618-D	82.6	636	0.77	748	0.91	935	1.13	1178	1.43
		5	306-620-D	75.6	643	0.85	756	1.00	946	1.25	1233	1.63
		5 1/2	306-622-D	67.8	631	0.93	742	1.09	928	1.37	1183	1.74
		6	306-624-D	62.2	633	1.02	745	1.20	931	1.50	1210	1.94
		7	306-628-D	52.4	625	1.19	735	1.40	919	1.75	1185	2.26
8	306-632-D	45.9	624	1.36	735	1.60	918	2.00	1198	2.61		
10	306-640-D	36.7	624	1.70	734	2.00	917	2.50	1218	3.32		
12	306-648-D	30.5	622	2.04	732	2.40	915	3.00	1224	4.02		
1 1/2	3/4	2	306-708-D	336.1	1147	0.34	1350	0.40	1687	0.50	1932	0.57
		2 1/2	306-710-D	258.6	1108	0.43	1303	0.50	1629	0.63	1863	0.72
		3	306-712-D	213.4	1086	0.51	1277	0.60	1597	0.75	1865	0.87
		3 1/2	306-714-D	179.3	1068	0.60	1256	0.70	1570	0.88	1863	1.04
		4	306-716-D	156.3	1067	0.68	1256	0.80	1570	1.00	1927	1.23
		4 1/2	306-718-D	138.6	1067	0.77	1255	0.91	1569	1.13	1976	1.43
		5	306-720-D	124.5	1058	0.85	1245	1.00	1556	1.25	1966	1.58
		5 1/2	306-722-D	112.0	1042	0.93	1226	1.09	1533	1.37	1910	1.70
		6	306-724-D	102.6	1044	1.02	1228	1.20	1536	1.50	1948	1.90
		7	306-728-D	86.7	1033	1.19	1216	1.40	1520	1.75	1933	2.23
		8	306-732-D	75.7	1029	1.36	1211	1.60	1514	2.00	1939	2.56
		10	306-740-D	60.3	1025	1.70	1206	2.00	1507	2.50	1961	3.25
12	306-748-D	50.2	1024	2.04	1205	2.40	1506	3.00	1985	3.96		
2	1	2 1/2	306-810-D	383.4	1642	0.43	1932	0.50	2415	0.63	3245	0.85
		3	306-812-D	306.7	1560	0.51	1835	0.60	2294	0.75	3019	0.98
		3 1/2	306-814-D	257.6	1535	0.60	1806	0.70	2257	0.88	3023	1.17
		4	306-816-D	222.1	1516	0.68	1784	0.80	2230	1.00	3034	1.37
		4 1/2	306-818-D	195.2	1502	0.77	1767	0.91	2209	1.13	3043	1.56
		5	306-820-D	174.1	1480	0.85	1741	1.00	2176	1.25	2974	1.71
		5 1/2	306-822-D	157.1	1462	0.93	1719	1.09	2149	1.37	2926	1.86
		6	306-824-D	143.1	1456	1.02	1713	1.20	2141	1.50	2936	2.05
		7	306-828-D	119.3	1421	1.19	1672	1.40	2090	1.75	2808	2.35
		8	306-832-D	105.6	1435	1.36	1688	1.60	2110	2.00	2935	2.78
		10	306-840-D	83.6	1422	1.70	1673	2.00	2091	2.50	2931	3.50
		12	306-848-D	68.5	1399	2.04	1646	2.40	2057	3.00	2843	4.15
2 1/2	1 1/2	3	306-912-D	544	2765	0.51	3253	0.60	-	-	3681	0.68
		3 1/2	306-914-D	468	2786	0.60	3277	0.70	-	-	3881	0.83
		4	306-916-D	400	2729	0.68	3210	0.80	-	-	3791	0.95
		4 1/2	306-918-D	354	2701	0.76	3178	0.90	-	-	3801	1.07
		5	306-920-D	323	2742	0.85	3226	1.00	-	-	4181	1.30
		6	306-924-D	262	2660	1.02	3130	1.20	-	-	3845	1.47
		7	306-928-D	219	2612	1.19	3073	1.40	-	-	3627	1.65
		8	306-932-D	192	2614	1.36	3076	1.60	-	-	3686	1.92
10	306-940-D	150	2553	1.70	3003	2.00	-	-	3501	2.33		
12	306-948-D	124	2541	2.04	2989	2.40	-	-	3493	2.81		

\*Tabulated deflections shown represent near solid and are for design information only.