



Raymond®		ULTRA LIGHT DUTY ISO D-LINE SPRINGS (INCH DIMENSIONS)										LIGHT GREEN		
Hole Dia. (in)	Rod Dia. (in)	Free Length (in)	CATALOG NUMBER	Spring Rate per 1/10 Inch Deflection	LOAD DEFLECTION TABLE								Load @ Max Recommended Deflection	Max Deflection (in)
					Load @ 30% of free length		Load @ 40% of free length		Load @ 50% of free length		Load (lbs)	Deflection (in)		
					Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)				
A	B	C												
1 1/2	3/4	4 1/2	302-718-D	12.6	170	1.35	227	1.80	283	2.24	365	2.89		
		5	302-720-D	11.2	168	1.50	224	2.00	280	2.50	360	3.22		
		5 1/2	302-722-D	10.1	167	1.65	223	2.20	279	2.76	359	3.55		
		6	302-724-D	9.3	166	1.80	221	2.39	277	2.99	356	3.85		
		7	302-728-D	7.8	164	2.10	219	2.80	274	3.50	352	4.50		
		8	302-732-D	7.0	168	2.40	225	3.20	281	4.00	366	5.22		
		10	302-740-D	5.6	168	3.00	224	4.00	280	5.00	367	6.55		
		12	302-748-D	4.7	171	3.60	228	4.80	285	6.00	377	7.95		
2	1	2 1/2	302-810-D	49.3	372	0.76	497	1.01	621	1.26	778	1.58		
		3	302-812-D	40.3	362	0.90	482	1.20	603	1.50	760	1.89		
		3 1/2	302-814-D	34.1	359	1.05	479	1.40	598	1.75	758	2.22		
		4	302-816-D	29.7	358	1.20	477	1.61	596	2.01	762	2.57		
		4 1/2	302-818-D	26.3	354	1.35	473	1.80	591	2.24	760	2.89		
		5	302-820-D	24.1	361	1.50	482	2.00	602	2.50	783	3.25		
		5 1/2	302-822-D	21.8	361	1.65	481	2.20	601	2.76	787	3.61		
		6	302-824-D	19.6	352	1.80	469	2.39	586	2.99	759	3.87		
		7	302-828-D	16.8	353	2.10	471	2.80	588	3.50	767	4.57		
		8	302-832-D	14.6	349	2.40	465	3.20	582	4.00	759	5.21		
		10	302-840-D	11.8	353	3.00	470	4.00	588	5.00	778	6.61		
		12	302-848-D	9.8	354	3.60	472	4.80	590	6.00	783	7.97		

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

ISO-D Series

Associated Spring Raymond has capabilities well beyond the catalog components shown. We supply custom components and functional assemblies. If you simply need a Raymond® die spring or other spring type with a different finish this can be easily done.

Some common finishes are:

- Plain
- Dacromet®
- Geomet®
- Zinc
- Black Oxide
- Temperature Indicating
- Teflon®

Additional catalogs are available for other catalog stocked parts for:



CloverDome

m-Struts®



Our engineers can also customize the dimensions and/or rates for your OEM or aftermarket application based on the design constraints. Even further we can design and supply functional sub-assemblies for new designs or cost reduction efforts. Contact Associated Spring Raymond to learn more about the possibilities for your application:

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