



**NAAMS Series**  
Die Spring



**ISO D Die Spring**

**Raymond™**  
**Die Springs**

High-strength chromium alloy steel springs have ground square ends and are color-coded by duty performance for easy sorting and selection when replacement is needed. ISO D Die Springs are manufactured to ISO10243 standards and are designed to be interchangeable with other manufacturers' springs of the same size, type, and color.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com.

For Rod Size	For Hole Size	Overall Length	Standard Blue - Medium Duty		Standard Red - Medium Heavy Duty		Standard Gold - Heavy Duty		Standard Green - Extra Heavy Duty		ISO10243 Blue - Medium Duty		ISO10243 Green - Light Duty		ISO10243 Red - Heavy Duty	
			Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
3/16 in	3/8 in	1 in	44U469	10	44U573	10	44U671	10	44U769	10	44V034	10	44U924	10	44V146	10
		2 in	44U473	1	44U577	1	44U675	1	44U773	1	44V038	15	44U928	1	44V150	1
		3 in	44U475	1	44U579	1	44U677	1	44U775	1	44V040	10	44U930	15	44V152	10
1/2 in	1 1/8 in	12 in	44U476	1	44U580	2	44U678	1	44U776	1	44V041	3	44U931	3	44V153	3
		1 in	44U477	10	44U581	10	—	—	—	—	44V042	10	44U932	10	44V154	10
		2 in	44U481	1	44U585	1	44U683	1	—	—	44V046	15	44U936	1	44V158	1
3/4 in	1 1/4 in	3 in	44U483	1	44U587	1	44U685	1	—	—	44V048	10	44U938	10	44V160	10
		12 in	44U489	1	44U589	1	44U687	1	44U785	1	44V051	3	44U941	3	44V163	2
		1 in	44U490	10	44U590	10	44U688	10	44U786	10	44V052	1	44U942	10	44V164	10
1 1/2 in	3/4 in	2 in	44U494	1	44U594	1	44U692	1	44U790	1	44V056	1	44U946	10	44V168	1
		3 in	44U496	1	44U596	1	44U694	1	44U792	1	44V058	10	44U948	1	44V170	10
		4 in	44U498	1	44U598	1	44U696	1	44U794	1	—	—	44U950	10	44V172	10
1 3/4 in	1 1/2 in	12 in	44U499	1	44U599	1	44U697	1	44U795	1	44V062	1	44U952	3	44V174	1
		1 in	44U501	1	44U601	1	44U698	1	44U796	1	44V063	1	44U953	1	44V175	1
		2 in	44U505	1	44U605	3	44U703	1	44U801	1	44V067	1	44U957	1	44V179	1
3/8 in	3/4 in	3 in	44U507	1	44U607	1	44U705	1	44U803	3	44V069	1	44U959	1	44V181	1
		4 in	44U509	1	44U609	1	—	—	44U805	1	44V071	10	44U961	1	—	—
		5 in	44U511	1	44U611	1	44U709	2	44U807	1	44V073	5	44U963	10	44V185	1
1 1/8 in	1 1/4 in	6 in	44U513	1	44U613	1	44U711	1	44U809	1	44V075	1	44U965	1	44V187	3
		12 in	44U516	1	44U614	1	44U712	1	44U810	1	44V076	2	44U966	1	44V188	2
		1 in	44U517	1	44U615	1	44U713	1	—	—	—	—	44U967	1	44V189	1
1 1/4 in	1 1/2 in	2 in	44U521	1	44U619	1	44U717	1	44U812	1	44V081	1	44U971	1	44V193	1
		3 in	44U523	1	44U621	1	44U719	1	44U814	1	44V083	1	44U973	1	44V195	1
		4 in	44U525	1	44U623	1	—	—	44U816	1	44V085	5	44U975	1	44V197	1
1 1/2 in	1 in	5 in	44U527	1	44U625	1	44U723	1	44U818	1	44V087	1	44U977	1	—	—
		6 in	44U529	1	—	—	—	—	44U819	1	44V089	3	—	—	—	—
		7 in	44U530	1	44U628	1	44U726	1	—	—	44V090	3	44U980	3	—	—
1 3/4 in	1 1/2 in	8 in	44U531	1	44U629	1	44U727	1	—	—	44V091	1	44U981	3	—	—
		12 in	44U532	1	44U630	1	44U728	1	44U820	1	44V092	2	44U982	2	44V205	2
		2 in	44U535	1	44U633	1	44U731	1	—	—	44V095	1	44U985	1	44V208	1
3/4 in	1 1/4 in	3 in	44U537	1	44U635	1	—	—	44U823	1	44V097	1	44U987	1	44V210	1
		4 in	44U539	1	44U637	1	44U735	1	44U825	1	44V099	1	44U989	3	44V212	1
		5 in	44U541	1	44U639	1	44U737	1	44U827	1	44V102	3	44U991	1	44V214	1
1 1/8 in	1 1/2 in	6 in	44U543	1	44U641	1	44U739	1	44U828	1	44V104	1	44U993	3	44V216	2
		7 in	44U544	1	44U642	1	44U740	1	—	—	44V105	2	44U994	3	44V217	1
		8 in	44U545	1	44U643	1	44U741	1	44U829	1	44V106	2	44U995	2	44V218	2
1 1/4 in	1 1/2 in	10 in	44U546	1	44U644	1	44U742	1	44U830	1	44V107	1	44U996	2	44V219	1
		12 in	44U547	1	44U645	1	44U743	1	44U831	1	44V108	1	44U997	2	44V220	1
		2 in	44U548	1	44U646	1	—	—	44U832	1	44V109	1	44U998	1	44V221	1
3/8 in	1 1/2 in	3 in	—	—	44U648	1	44U746	1	44U834	1	44V111	1	44V001	1	44V223	1
		4 in	—	—	44U650	1	44U748	1	44U836	1	44V113	2	—	—	44V225	1
		5 in	44U554	1	44U652	1	44U750	1	44U838	1	44V115	2	44V005	2	44V227	2
1 1/8 in	1 1/2 in	6 in	44U556	1	44U654	1	44U752	1	44U839	1	44V117	1	44V007	2	44V229	1
		7 in	44U557	1	44U655	1	44U753	1	—	—	44V118	1	44V008	1	44V230	1
		8 in	44U558	1	44U656	1	44U754	1	44U840	1	44V119	1	44V009	1	44V231	1
1 1/4 in	1 1/2 in	10 in	44U559	1	44U657	1	44U755	1	44U841	1	44V120	1	44V010	1	44V232	1
		12 in	44U560	1	44U658	1	44U756	1	44U842	1	44V121	1	44V011	1	44V233	1
		3 in	44U562	1	44U660	1	44U758	1	44U844	1	44V123	1	44V013	2	44V235	1
1 1/2 in	1 1/2 in	4 in	44U564	1	44U662	1	44U760	1	44U846	1	44V125	1	44V015	2	44V237	1
		5 in	44U566	1	44U664	1	44U762	1	44U848	1	44V127	1	44V017	1	44V239	1
		6 in	44U568	1	44U666	1	44U764	1	44U849	1	44V129	1	44V019	1	44V241	1
1 3/4 in	1 1/2 in	7 in	44U569	1	44U667	1	44U765	1	—	—	44V130	1	44V020	1	44V242	1
		8 in	44U570	1	44U668	1	44U766	1	44U850	1	44V131	1	44V021	1	44V243	1
		10 in	44U571	1	44U669	1	44U767	1	44U851	1	44V133	1	44V022	1	44V244	1
1 1/2 in	2 1/2 in	12 in	44U572	1	44U670	1	44U768	1	44U852	1	44V134	1	44V023	1	44V245	1
		3 in	—	—	—	—	—	—	—	—	44V135	1	44V024	1	44V246	1
		4 in	—	—	—	—	—	—	—	—	44V137	1	44V026	1	44V248	1
1 3/8 in	2 1/2 in	5 in	—	—	—	—	—	—	—	44V139	1	44V028	1	44V250	1	
		6 in	—	—	—	—	—	—	—	44V140	1	44V029	1	44V251	1	
		7 in	—	—	—	—	—	—	—	44V141	1	44V030	1	44V252	1	
1 3/4 in	2 1/2 in	8 in	—	—	—	—	—	—	—	44V142	1	44V031	1	44V253	1	
		9 in	—	—	—	—	—	—	—	44V143	1	—	—	44V254	1	
		10 in	—	—	—	—	—	—	—	44V144	1	44V032	1	44V255	1	
1 3/4 in	2 1/2 in	12 in	—	—	—	—	—	—	—	44V145	1	44V033	1	44V256	1	

**Utility**  
**Compression**  
**Springs**

Excellent for static or low-cycle applications. For spring stock, determine spring rate by dividing the spring constant by the total number of coils used once the spring has been cut to the desired length. Meet ASTM A227 standard.

Note: Additional sizes are available; on Grainger.com, search for "compression springs."

Overall Length	Outside Dia.	Wire Dia.	Pkg. Qty.	Item No.
<b>Precut Springs - High Carbon Steel, Zinc-Plated, Closed Ends</b>				
1 in	0.25 in	0.029 in	12	1NBV1
	0.312 in	0.029 in	12	1NBV2
	0.312 in	0.035 in	12	1NBV3
1 1/4 in	0.188 in	0.023 in	12	1NBV4
	0.375 in	0.035 in	12	1NBV5
1 1/2 in	0.312 in	0.035 in	12	1NBV6
	0.375 in	0.048 in	12	1NBV7
2 in	0.188 in	0.023 in	12	1NBV8
	0.312 in	0.029 in	12	1NBV9
2 1/2 in	0.25 in	0.029 in	12	1NBW1
	0.438 in	0.048 in	12	1NBW2
<b>Outside Dia. Wire Dia. Coils per Inch Constant Item No. Pkg. Qty.</b>				
<b>12" Long Spring Stock</b>				
<b>High Carbon Steel, Pregalvanized Finish, Open Ends</b>				
0.184 in	0.023 in	12	96.4	1NBW3 3
0.206 in	0.026 in	11	108.8	1NBW4 3
0.229 in	0.029 in	11	119.5	1NBW5 3
0.254 in	0.032 in	9.25	132.1	1NBW6 3
0.278 in	0.035 in	9.5	146.5	1NBW7 3
0.328 in	0.041 in	8	171.7	1NBW8 3
0.375 in	0.041 in	6	109	1NBW9 3
0.38 in	0.048 in	7	199	1NBX1 3
0.432 in	0.054 in	6.5	226.3	1NBX2 3
0.5 in	0.063 in	5	261.9	1NBX3 3
0.576 in	0.072 in	4.5	301.8	1NBX4 3
0.64 in	0.08 in	4.25		