



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 Item No. Pkg. Qty.	Standard Red - Medium Heavy Duty Item No. Pkg. Qty.	Standard Gold - Heavy Duty Item No. Pkg. Qty.	Standard Green - Extra Heavy Duty Item No. Pkg. Qty.	ISO10243 Blue - Medium Duty Item No. Pkg. Qty.	ISO10243 Green - Light Duty Item No. Pkg. Qty.	ISO10243 Red - Heavy Duty Item No. Pkg. Qty.
3/16"	3/8"	1"	44U469 10	44U573 10	44U671 10	44U769 10	44V034 10	44U924 10	44V146 10
		2"	44U473 1	44U577 1	44U675 1	44U773 1	44V038 1	44U928 1	44V150 1
		3"	44U475 1	44U579 1	44U677 1	44U775 1	44V040 1	44U930 1	44V152 1
9/32"	1/2"	12"	44U476 1	44U580 1	44U678 1	44U776 1	44V041 1	44U931 1	44V153 1
		1"	44U477 10	44U581 10	—	—	44V042 10	44U932 10	44V154 10
		2"	44U481 1	44U585 1	44U683 1	44U781 1	44V046 1	44U936 1	44V158 1
1/2"	5/8"	3"	44U483 1	44U587 1	44U685 1	44U783 1	44V048 1	44U938 1	44V160 1
		12"	44U489 1	44U589 1	44U687 1	44U785 1	44V051 1	44U941 1	44V163 1
		1"	44U490 10	44U590 10	44U688 1	44U786 1	44V052 1	44U942 10	44V164 1
3/8"	3/4"	2"	44U494 1	44U594 1	44U692 1	44U790 1	44V056 1	44U946 1	44V168 1
		3"	44U496 1	44U596 1	44U694 1	44U792 1	44V058 1	44U948 1	44V170 1
		4"	44U498 1	44U598 1	44U696 1	44U794 1	44V060 1	44U950 1	44V172 1
1/4"	1"	12"	44U499 1	44U599 1	44U697 1	44U795 1	44V062 1	44U952 1	44V174 1
		1"	44U501 1	44U601 1	44U698 1	44U796 1	44V063 1	44U953 1	44V175 1
		2"	44U505 1	44U605 1	44U703 1	44U801 1	44V067 1	44U957 1	44V179 1
3/16"	3/4"	3"	44U507 1	44U607 1	44U705 1	44U803 1	44V069 1	44U959 1	44V181 1
		4"	44U509 1	44U609 1	44U707 1	44U805 1	44V071 1	44U961 1	44V183 1
		5"	44U511 1	44U611 1	44U709 1	44U807 1	44V073 1	44U963 1	44V185 1
1/2"	1"	6"	44U513 1	44U613 1	44U711 1	44U809 1	44V075 1	44U965 1	44V187 1
		12"	44U516 1	44U614 1	44U712 1	44U810 1	44V076 1	44U966 1	44V188 1
		1"	44U517 1	44U615 1	44U713 1	—	44V077 1	44U967 1	44V189 1
3/8"	1"	2"	44U521 1	44U619 1	44U717 1	44U812 1	44V081 1	44U971 1	44V193 1
		3"	44U523 1	44U621 1	44U719 1	44U814 1	44V083 1	44U973 1	44V195 1
		4"	44U525 1	44U623 1	44U721 1	44U816 1	44V085 1	44U975 1	44V197 1
1/4"	1"	5"	44U527 1	44U625 1	44U723 1	44U818 1	44V087 1	44U977 1	44V199 1
		6"	44U529 1	44U627 1	44U725 1	44U819 1	44V089 1	44U979 1	44V202 1
		7"	44U530 1	44U628 1	44U726 1	—	44V090 1	44U980 1	44V203 1
3/16"	1 1/4"	8"	44U531 1	44U629 1	44U727 1	—	44V091 1	44U981 1	44V204 1
		12"	44U532 1	44U630 1	44U728 1	44U820 1	44V092 1	44U982 1	44V205 1
		2"	44U535 1	44U633 1	44U731 1	44U821 1	44V095 1	44U985 1	44V208 1
1/2"	1"	3"	44U537 1	44U635 1	44U733 1	44U823 1	44V097 1	44U987 1	44V210 1
		4"	44U539 1	44U637 1	44U735 1	44U825 1	44V099 1	44U989 1	44V212 1
		5"	44U541 1	44U639 1	44U737 1	44U827 1	44V102 1	44U991 1	44V214 1
3/8"	1 1/2"	6"	44U543 1	44U641 1	44U739 1	44U828 1	44V104 1	44U993 1	44V216 1
		7"	44U544 1	44U642 1	44U740 1	—	44V105 1	44U994 1	44V217 1
		8"	44U545 1	44U643 1	44U741 1	44U829 1	44V106 1	44U995 1	44V218 1
1/4"	1 1/2"	10"	44U546 1	44U644 1	44U742 1	44U830 1	44V107 1	44U996 1	44V219 1
		12"	44U547 1	44U645 1	44U743 1	44U831 1	44V108 1	44U997 1	44V220 1
		2"	44U548 1	44U646 1	44U744 1	44U832 1	44V109 1	44U998 1	44V221 1
3/16"	1 3/4"	3"	44U550 1	44U648 1	44U746 1	44U834 1	44V111 1	44V001 1	44V223 1
		4"	44U552 1	44U650 1	44U748 1	44U836 1	44V113 1	44V003 1	44V225 1
		5"	44U554 1	44U652 1	44U750 1	44U838 1	44V115 1	44V005 1	44V227 1
1/2"	2"	6"	44U556 1	44U654 1	44U752 1	44U839 1	44V117 1	44V007 1	44V229 1
		7"	44U557 1	44U655 1	44U753 1	—	44V118 1	44V008 1	44V230 1
		8"	44U558 1	44U656 1	44U754 1	44U840 1	44V119 1	44V009 1	44V231 1
3/8"	2 1/4"	10"	44U559 1	44U657 1	44U755 1	44U841 1	44V120 1	44V010 1	44V232 1
		12"	44U560 1	44U658 1	44U756 1	44U842 1	44V121 1	44V011 1	44V233 1
		3"	44U562 1	44U660 1	44U758 1	44U844 1	44V123 1	44V013 1	44V235 1
1/4"	2 1/2"	4"	44U564 1	44U662 1	44U760 1	44U846 1	44V125 1	44V015 1	44V237 1
		5"	44U566 1	44U664 1	44U762 1	44U848 1	44V127 1	44V017 1	44V239 1
		6"	44U568 1	44U666 1	44U764 1	44U849 1	44V129 1	44V019 1	44V241 1
3/16"	3"	7"	44U569 1	44U667 1	44U765 1	—	44V130 1	44V020 1	44V242 1
		8"	44U570 1	44U668 1	44U766 1	44U850 1	44V131 1	44V021 1	44V243 1
		10"	44U571 1	44U669 1	44U767 1	44U851 1	44V133 1	44V022 1	44V244 1
1/2"	3 1/2"	12"	44U572 1	44U670 1	44U768 1	44U852 1	44V134 1	44V023 1	44V245 1
		3"	—	—	—	—	44V135 1	44V024 1	44V246 1
		4"	—	—	—	—	44V137 1	44V026 1	44V248 1
3/8"	4"	5"	—	—	—	—	44V139 1	44V028 1	44V250 1
		6"	—	—	—	—	44V140 1	44V029 1	44V251 1
		7"	—	—	—	—	44V141 1	44V030 1	44V252 1
1/4"	4 1/2"	8"	—	—	—	—	44V142 1	44V031 1	44V253 1
		9"	—	—	—	—	44V143 1	—	44V254 1
		10"	—	—	—	—	44V144 1	44V032 1	44V255 1
3/16"	5"	12"	—	—	—	—	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.
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

Outside Dia.	Wire Dia.	Coils per Inch	Constant	Item No.	Pkg. Qty.
12" Long Spring Stock					
High Carbon Steel, Pregalvanized Finish, Open Ends					
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	109.0	1NBW9	3
0.38 in	0.048 in	7	199.0	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	335.3	1NBX5	3
0.732 in	0.092 in	3.75	383.4	1NBX6	3
0.844 in	0.106 in	3.25	442.1	1NBX7	3
0.964 in	0.121 in	3	505.0	1NBX8	3

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