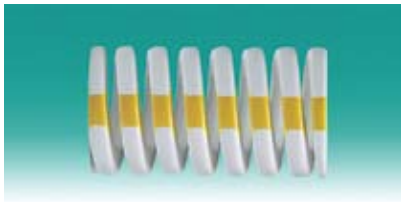
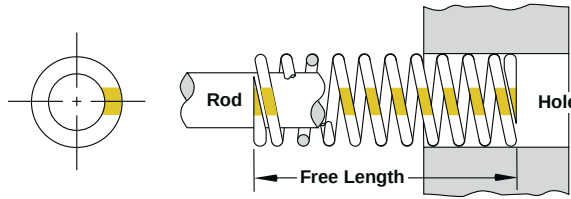


Heavy Pressure Inch



Type **H**



Note: Efficient Operating Range is 25% to 50% of the free length. (Maximum deflection = 50%; long life = 40%; and optimum life = 25%.) "Travel to solid" is for reference only. Deflection beyond the Efficient Operating Range could create a safety hazard, and result in premature spring failure.

Hole Dia.	Rod Dia.	Free Length	Catalog Number	LOAD DEFLECTION TABLE							Load@ .1" Deflection (lbs)
				30% Deflection		20% Deflection		15% Deflection		Travel to Solid Deflection(in)	
				Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)		
3/8	3/16	1	H37-100	51	.300	34	.200	26	.150	.379	17.1
		1.25	H37-125	44	.375	30	.250	22	.188	.456	11.8
		1.5	H37-150	45	.450	30	.300	23	.225	.557	10.0
		1.75	H37-175	46	.525	31	.350	23	.263	.697	8.8
		2	H37-200	49	.600	32	.400	24	.300	.804	8.1
		2.5	H37-250	50	.750	33	.500	25	.375	1.100	6.6
		3	H37-300	45	.900	30	.600	23	.450	1.210	5.0
12	H37-1200	43	3.600	29	2.400	22	1.800	4.180	1.2		
1/2	9/32	1	H50-100	75	.300	50	.200	38	.150	.468	25.0
		1.25	H50-125	66	.375	44	.250	33	.188	.573	17.5
		1.5	H50-150	76	.450	50	.300	38	.225	.693	16.8
		1.75	H50-175	74	.525	49	.350	37	.263	.845	14.0
		2	H50-200	66	.600	44	.400	33	.300	1.000	11.0
		2.5	H50-250	74	.750	49	.500	37	.375	1.300	9.8
		3	H50-300	68	.900	45	.600	34	.450	1.430	7.5
3.5	H50-350	69	1.050	46	.700	35	.525	1.766	6.6		
12	H50-1200	68	3.600	46	2.400	34	1.800	6.122	1.9		
5/8	11/32	1	H62-100	143	.300	95	.200	71	.150	.363	47.5
		1.25	H62-125	131	.375	88	.250	66	.188	.476	35.0
		1.5	H62-150	135	.450	90	.300	68	.225	.588	30.0
		1.75	H62-175	131	.525	88	.350	66	.263	.700	25.0
		2	H62-200	130	.600	86	.400	65	.300	.813	21.6
		2.5	H62-250	126	.750	84	.500	63	.375	1.120	16.8
		3	H62-300	126	.900	84	.600	63	.450	1.350	14.0
		3.5	H62-350	145	1.050	97	.700	72	.525	1.600	13.8
		4	H62-400	127	1.200	85	.800	64	.600	1.840	10.6
12	H62-1200	119	3.600	79	2.400	59	1.800	5.311	3.3		
3/4	3/8	1	H75-100	394	.300	263	.200	197	.150	.305	131.4
		1.25	H75-125	360	.375	240	.250	180	.188	.392	96.0
		1.5	H75-150	329	.450	219	.300	164	.225	.491	73.0
		1.75	H75-175	331	.525	221	.350	166	.263	.565	63.0
		2	H75-200	318	.600	212	.400	159	.300	.655	53.0
		2.5	H75-250	311	.750	207	.500	155	.375	.849	41.4
		3	H75-300	354	.900	236	.600	177	.450	1.046	39.3
		3.5	H75-350	309	1.050	206	.700	154	.525	1.238	29.4
		4	H75-400	360	1.200	240	.800	180	.600	1.520	30.0
		4.5	H75-450	313	1.350	209	.900	157	.675	1.745	23.2
		5	H75-500	375	1.500	250	1.000	188	.750	1.911	25.0
		5.5	H75-550	368	1.650	245	1.100	184	.825	2.144	22.3
6	H75-600	362	1.800	241	1.200	181	.900	2.326	20.1		
12	H75-1200	328	3.600	218	2.400	164	1.800	4.380	9.1		

Heavy Pressure Inch

Hole Dia.	Rod Dia.	Free Length	Catalog Number	LOAD DEFLECTION TABLE							Load @ .1" Deflection (lbs)
				30% Deflection		20% Deflection		15% Deflection		Travel to Solid Deflection(in)	
				Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)		
1	1/2	1	H100-100	—	—	398	.200	299	.150	.285	199.0
		1.25	H100-125	600	.375	400	.250	301	.188	.383	160.0
		1.5	H100-150	690	.450	460	.300	345	.225	.497	153.4
		1.75	H100-175	579	.525	386	.350	290	.263	.632	110.3
		2	H100-200	570	.600	380	.400	285	.300	.709	95.0
		2.5	H100-250	577	.750	385	.500	288	.375	.866	76.9
		3	H100-300	567	.900	378	.600	284	.450	1.022	63.0
		3.5	H100-350	446	1.050	298	.700	223	.525	1.172	42.5
		4	H100-400	556	1.200	370	.800	278	.600	1.438	46.3
		4.5	H100-450	525	1.350	350	.900	263	.675	1.645	38.9
		5	H100-500	531	1.500	354	1.000	266	.750	1.836	35.4
		5.5	H100-550	523	1.650	349	1.100	262	.825	2.080	31.7
6	H100-600	515	1.800	343	1.200	257	.900	2.282	28.6		
7	H100-700	546	2.100	364	1.400	273	1.050	2.532	26.0		
8	H100-800	528	2.400	352	1.600	264	1.200	2.984	22.0		
12	H100-1200	540	3.600	360	2.400	270	1.800	4.580	15.0		
1 1/4	5/8	1.5	H125-150	1013	.450	675	.300	506	.225	.472	225.0
		1.75	H125-175	1029	.525	686	.350	515	.263	.561	196.0
		2	H125-200	960	.600	640	.400	480	.300	.628	160.0
		2.5	H125-250	945	.750	630	.500	473	.375	.806	126.0
		3	H125-300	891	.900	594	.600	446	.450	.965	99.0
		3.5	H125-350	882	1.050	588	.700	441	.525	1.176	84.0
		4	H125-400	863	1.200	575	.800	431	.600	1.320	71.9
		4.5	H125-450	864	1.350	576	.900	432	.675	1.523	64.0
		5	H125-500	855	1.500	570	1.000	428	.750	1.733	57.0
		5.5	H125-550	881	1.650	587	1.100	441	.825	1.965	53.4
		6	H125-600	950	1.800	634	1.200	475	.900	2.078	52.8
		7	H125-700	943	2.100	629	1.400	471	1.050	2.483	44.9
8	H125-800	953	2.400	635	1.600	476	1.200	2.836	39.7		
10	H125-1000	933	3.000	622	2.000	467	1.500	3.490	31.1		
12	H125-1200	893	3.600	595	2.400	446	1.800	4.300	24.8		
1 1/2	3/4	2	H150-200	1152	.600	768	.400	576	.300	.707	192.0
		2.5	H150-250	1125	.750	750	.500	563	.375	.920	150.0
		3	H150-300	1094	.900	729	.600	547	.450	1.215	121.5
		3.5	H150-350	1098	1.050	732	.700	549	.525	1.379	104.6
		4	H150-400	1086	1.200	724	.800	543	.600	1.568	90.5
		4.5	H150-450	1187	1.350	791	.900	593	.675	1.806	87.9
		5	H150-500	1050	1.500	700	1.000	525	.750	2.077	70.0
		5.5	H150-550	1059	1.650	706	1.100	530	.825	2.299	64.2
		6	H150-600	1053	1.800	702	1.200	527	.900	2.624	58.5
		7	H150-700	1023	2.100	682	1.400	511	1.050	2.972	48.7
		8	H150-800	989	2.400	659	1.600	494	1.200	3.485	41.2
		10	H150-1000	1020	3.000	680	2.000	510	1.500	4.367	34.0
12	H150-1200	1037	3.600	691	2.400	518	1.800	5.293	28.8		
2	1	2.5	H200-250	1800	.750	1200	.500	900	.375	.900	240.0
		3	H200-300	1683	.900	1122	.600	842	.450	1.420	187.0
		3.5	H200-350	1680	1.050	1120	.700	840	.525	1.350	160.0
		4	H200-400	1680	1.200	1120	.800	840	.600	1.580	140.0
		4.5	H200-450	1566	1.350	1044	.900	783	.675	1.827	116.0
		5	H200-500	1575	1.500	1050	1.000	788	.750	2.050	105.0
		5.5	H200-550	1592	1.650	1062	1.100	796	.825	2.366	96.5
		6	H200-600	1642	1.800	1094	1.200	821	.900	2.627	91.2
		7	H200-700	1583	2.100	1056	1.400	792	1.050	3.079	75.4
		8	H200-800	1685	2.400	1123	1.600	842	1.200	3.560	70.2
		10	H200-1000	1575	3.000	1050	2.000	788	1.500	4.497	52.5
		12	H200-1200	1566	3.600	1044	2.400	783	1.800	5.580	43.5

MaxLife Die Springs

Product Applications

Dayton MaxLife® Die Springs are designed to the highest quality standards, and manufactured to outperform and outlast other major brands. All Dayton die springs are available in a wide range of lengths, diameters, and load classifications in both inch and metric sizes. In addition, all springs are color-coded for easy identification of load range.

Corrosion-resistant Dayton die springs are made from pre-tempered chrome silicon wire to improve dimensional accuracy, minimize high-stress cracking, optimize the working life of press and mold dies, and help reduce downtime. Many manufacturers specify Dayton die springs to ensure optimum operation in heavy industry applications, including: automotive; aircraft; appliance; electrical; and electronic.

Quality & Performance

From the incoming raw material (tested for tensile strength, dimensional accuracy, and surface quality) to the finished product, every Dayton die spring undergoes continuous quality control to ensure optimum product performance. In comparison testing, Dayton die springs consistently outperform and outlast other major brands.

All Dayton die springs are stress relieved after coiling, then compressed to solid to enhance fatigue life. Further, they are ground square at both ends (see insert), then shot-peened. (Shot-peening supplements compressive strength to reduce stress and extend spring life.) Finally, all

finished springs are electro-statically coated with a durable, anti-corrosive vinyl, and color-coded for easy identification of load ranges.



Ordering Information

Dayton die springs are ordered according to: the amount of pressure applied to the spring (see “Load Deflection Table”); the hole diameter (which determines the rod diameter); and, the free length of the spring (see drawing on usage category page). On each order, please specify quantity and “Catalog Number.”

In the example below, the first “Catalog Number” is DMD37-100. “DMD” refers to Medium Duty Inch. “37” refers to a $\frac{3}{8}$ hole diameter and $\frac{3}{16}$ rod diameter. The “100” designation further defines the product with a free length of 1. The “Load Deflection Table” on each catalog page provides percentage of deflection, travel to solid, and load @ 1" or 1mm deflection to help determine the exact spring to select. The second product code shown is for an extra heavy duty metric spring.

The “Efficient Operating Range” of any spring should not be exceeded. For safe operation, when changing from another manufacturer to a Dayton die spring, verify that the travel of both springs is the same.

HOW TO ORDER

Specify:	Qty.	Catalog Number
Example:	16	DMD37-1200

Worldwide Distribution, On-time Delivery

Dayton maintains a large inventory of Dayton MaxLife® Die Springs in all standard categories throughout our system. There are no minimum size orders, and on-time delivery is a top priority. A Firm Delivery Schedule (FDS) is provided in each catalog section.

Industry Standards

All Dayton MaxLife® Die Springs are designed to meet or exceed technical specifications and other criteria as established by industry guidelines. Designated springs are manufactured to meet or exceed The International Organization for Standardization (ISO) and/or Japanese Industrial Standards (JIS).

