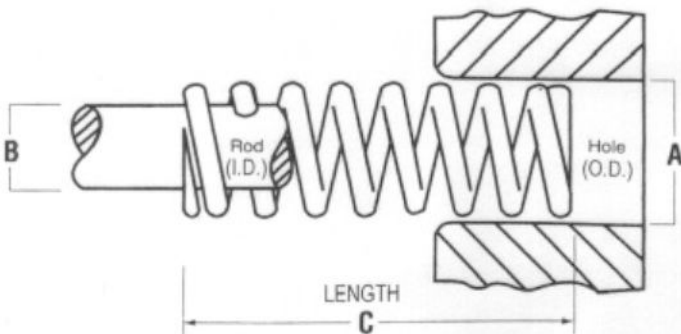


RAYMOND DIE AND MOLD SPRINGS

HEAVY DUTY GOLD

HEAVY DUTY GOLD				RATE LBS. / IN. 1/10 IN.	MAX. RATE * POUNDS AT 30% DEF.		
HOLE DIA. O.D. (A)	ROD DIA. I.D. (B)	FREE LENGTH (C)	PART NUMBER				
3/8 9.53 mm WIRE .054 x .072	3/16 4.76 mm	1	15104	11.0	33.0		
		1-1/4	15105	9.8	36.8		
		1-1/2	15106	8.0	36.0		
		1-3/4	15107	8.4	44.1		
		2	15108	7.2	43.2		
		2-1/2	15110	5.5	41.3		
		3	15112	4.2	37.8		
		12	15148	1.2	43.2		
		1/2 12.70 mm WIRE .072 x .095	9/32 7.14 mm	1	15204	23.6	70.8
				1-1/4	15205	18.6	69.8
				1-1/2	15206	15.5	69.8
				1-3/4	15207	13.8	72.5
2	15208			11.0	66.0		
2-1/2	15210			8.4	63.0		
3	15212			7.4	66.6		
3-1/2	15214			6.0	63.0		
12	15248			1.6	57.6		
5/8 15.88 mm WIRE .093 x .125	11/32 8.73 mm			1	15304	42.4	127.2
				1-1/4	15305	29.6	111.0
				1-1/2	15306	27.2	122.4
		1-3/4	15307	24.0	126.0		
		2	15308	20.8	124.8		
		2-1/2	15310	17.0	127.5		
		3	15312	14.4	129.6		
		3-1/2	15314	12.2	128.1		
		4	15316	10.8	129.6		
		12	15348	3.0	108.0		
		3/4 19.05 mm WIRE .125 x .165	3/8 9.53 mm	1	15404	108.0	324.0
				1-1/4	15405	88.0	330.0
1-1/2	15406			65.6	295.2		
1-3/4	15407			60.0	315.0		
2	15408			49.6	297.6		
2-1/2	15410			40.0	300.0		
3	15412			34.0	306.0		
3-1/2	15414			28.0	294.0		
4	15416			25.0	300.0		
4-1/2	15418			22.0	297.0		
5	15420			19.5	292.5		
5-1/2	15422			17.0	280.5		
6	15424	16.0	288.0				
12	15448	8.0	288.0				

HEAVY DUTY GOLD				RATE LBS. / IN. 1/10 IN.	MAX. RATE * POUNDS AT 30% DEF.
HOLE DIA. O.D. (A)	ROD DIA. I.D. (B)	FREE LENGTH (C)	PART NUMBER		
1 25.4 mm WIRE .158 x .225	1/2 12.70 mm	1	15504	208.0	624.0
		1-1/4	15505	171.2	642.0
		1-1/2	15506	118.4	532.8
		1-3/4	15507	104.0	546.0
		2	15508	90.0	540.0
		2-1/2	15510	68.0	510.0
		3	15512	54.4	489.6
		3-1/2	15514	45.6	478.8
		4	15516	40.0	480.0
		4-1/2	15518	35.2	475.2
		5	15520	31.2	468.0
		5-1/2	15522	28.8	475.2
6	15524	25.6	460.8		
7	15528	22.4	470.4		
8	15532	19.2	460.8		
12	15548	12.0	432.0		
1-1/4 31.75 mm WIRE .200 x .295	5/8 15.88 mm	1-1/2	15606	212.0	954.0
		1-3/4	15607	181.6	953.4
		2	15608	149.6	897.6
		2-1/2	15610	117.6	882.0
		3	15612	95.2	856.8
		3-1/2	15614	75.2	789.6
		4	15616	66.4	796.8
		4-1/2	15618	58.4	788.4
		5	15620	53.0	795.0
		5-1/2	15622	47.2	778.8
		6	15624	42.4	763.2
		7	15628	36.8	772.8
8	15632	32.8	787.2		
10	15640	25.6	768.0		
12	15648	20.8	748.8		
1-1/2 38.10 mm WIRE .225 x .350	3/4 19.05 mm	2	15708	190.4	1142.4
		2-1/2	15710	155.0	1162.5
		3	15712	130.0	1170.0
		3-1/2	15714	106.4	1117.2
		4	15716	91.2	1094.4
		4-1/2	15718	78.4	1058.4
		5	15720	71.2	1068.0
		5-1/2	15722	64.0	1056.0
		6	15724	58.4	1051.2
		7	15728	49.6	1041.6
		8	15732	43.2	1036.8
		10	15740	34.4	1032.0
12	15748	28.8	1036.8		
2 50.80 mm WIRE .280 x .470	1 25.40 mm	2-1/2	15810	260.0	1950.0
		3	15812	200.0	1800.0
		3-1/2	15814	170.0	1785.0
		4	15816	150.0	1800.0
		4-1/2	15818	120.0	1620.0
		5	15820	110.0	1650.0
		5-1/2	15822	100.0	1650.0
		6	15824	94.0	1692.0
		7	15828	82.0	1722.0
		8	15832	73.0	1752.0
		10	15840	55.0	1650.0
		12	15848	42.0	1512.0



Load Deflection

15% of free length for Optimum Life

20% of free length for Long Life

25% of Free length Maximum Operating Deflection

* 30% of free length Maximum Deflection

Colors BLUE, RED, GOLD, GREEN are a registered trademark of Barnes Group, Inc.
Made from Chrome Silicone Steel.(Temperature range of up to 400° F)

* Tabulated load values shown represent loads near solid and are for design information only.