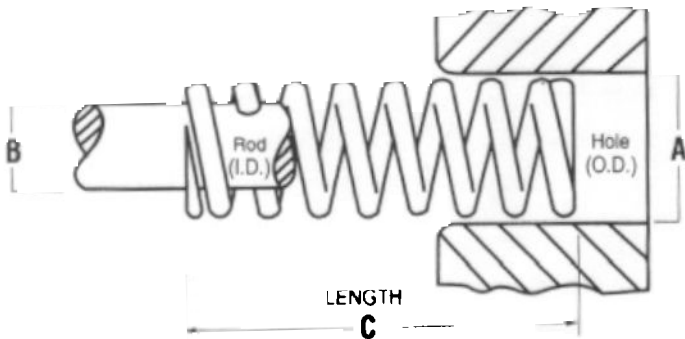


# RAYMOND DIE AND MOLD SPRINGS

# MEDIUM HEAVY DUTY RED

MEDIUM HEAVY DUTY RED				RATE	MAX. RATE *			
HOLE DIA. O.D. (A)	ROD DIA. I.D. (B)	FREE LENGTH (C)	PART NUMBER	LBS. / IN. 1/10 IN.	POUNDS AT 37% DEF.			
<b>3/8</b> 9.53 mm	<b>3/16</b> 4.76 mm	1-1/4	14104	9.0	33.3			
			14105	7.3	33.8			
			14106	6.7	37.2			
			14107	5.8	37.6			
			14108	5.0	37.0			
			14110	4.2	38.9			
			14112	3.0	33.3			
			14148	0.9	40.0			
			<b>1/2</b> 12.70 mm	<b>9/32</b> 7.14 mm	1-1/4	14204	16.8	62.2
						14205	13.0	60.1
						14206	9.5	52.7
						14207	8.5	55.0
14208	7.5	55.5						
14210	6.0	55.5						
14212	5.7	63.3						
14214	4.0	51.8						
14248	1.2	53.3						
<b>5/8</b> 15.88 mm	<b>11/32</b> 8.73 mm	1-1/4				14304	30.0	111.0
						14305	21.5	99.4
						14306	19.0	105.5
			14307	16.8	108.8			
			14308	14.8	109.5			
			14310	11.5	106.4			
			14312	10.0	111.0			
			14314	8.5	110.1			
			14316	7.6	112.5			
			14348	2.7	119.9			
			<b>3/4</b> 19.05 mm	<b>3/8</b> 9.53 mm	1-1/4	14404	50.0	185.0
						14405	38.0	175.8
14406	32.0	177.6						
14407	28.8	186.5						
14408	24.8	183.5						
14410	19.2	177.6						
14412	14.4	159.8						
14414	12.8	165.8						
14416	12.0	177.6						
14418	11.2	186.5						
14420	9.0	166.5						
14422	8.0	162.8						
14424	7.5	166.5						
14448	3.6	159.8						

MEDIUM HEAVY DUTY RED				RATE	MAX. RATE *
HOLE DIA. O.D. (A)	ROD DIA. I.D. (B)	FREE LENGTH (C)	PART NUMBER	LBS. / IN. 1/10 IN.	POUNDS AT 37% DEF.
<b>1</b> 25.4 mm	<b>1/2</b> 12.70 mm	1-1/4	14504	76.0	281.2
			14505	62.4	288.6
			14506	49.6	275.3
			14507	44.0	284.9
			14508	40.0	296.0
			14510	31.0	286.8
			14512	25.0	277.5
			14514	21.6	279.7
			14516	18.4	272.3
			14518	17.0	283.1
			14520	14.4	266.4
			14522	12.8	260.5
<b>1-1/4</b> 31.75 mm	<b>5/8</b> 15.88 mm	1-1/4	14606	114.4	634.9
			14607	100.8	652.7
			14608	86.4	639.4
			14610	62.4	577.2
			14612	51.2	568.3
			14614	44.0	569.8
			14616	36.8	544.6
			14618	32.0	532.8
			14620	29.0	536.5
			14622	26.4	537.2
			14624	25.0	555.0
			14628	20.0	518.0
14632	18.4	544.6			
14640	14.5	536.5			
14648	12.4	550.6			
<b>1-1/2</b> 38.10 mm	<b>3/4</b> 19.05 mm	2-1/2	14708	108.0	799.2
			14710	85.6	791.8
			14712	62.4	692.6
			14714	52.8	683.8
			14716	48.0	710.4
			14718	43.2	719.3
			14720	36.8	680.8
			14722	34.4	700.0
			14724	30.4	674.9
			14728	26.4	683.8
			14732	22.0	651.2
			14740	17.6	651.2
14748	14.4	639.4			
<b>2</b> 50.80 mm	<b>1</b> 25.40 mm	2-1/2	14810	118.4	1095.2
			14812	96.0	1065.6
			14814	80.0	1036.0
			14816	66.4	982.7
			14818	60.0	999.0
			14820	56.0	1036.0
			14822	50.4	1025.6
			14824	47.2	1047.8
			14828	40.0	1036.0
			14832	35.2	1041.9
			14840	26.0	962.0
			14848	22.4	994.6



### Load Deflection

20% of free length for Optimum Life

25% of free length for Long Life

30% of Free length Maximum Operating Deflection

\* 37% 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