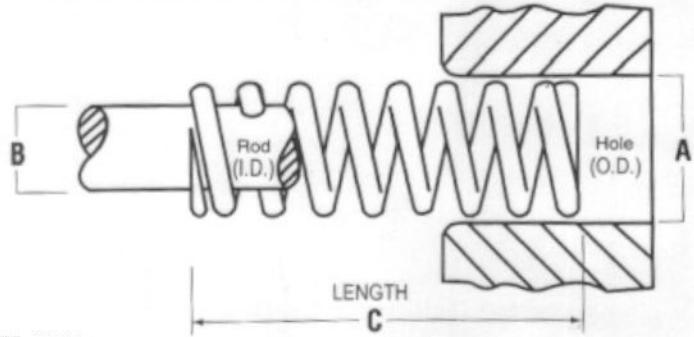


RAYMOND DIE AND MOLD SPRINGS

MEDIUM DUTY BLUE

MEDIUM DUTY BLUE				RATE	MAX. RATE *		
HOLE DIA.	ROD DIA.	FREE	PART	LBS. / IN.	POUNDS AT		
O.D. (A)	I.D. (B)	LENGTH (C)	NUMBER	1/10 IN.	50% DEF.		
3/8 9.53 mm	3/16 4.76 mm	1	13104	6.0	30.0		
		1-1/4	13105	5.4	33.8		
		1-1/2	13106	4.0	30.0		
		1-3/4	13107	3.4	29.8		
		2	13108	2.8	28.0		
		2-1/2	13110	2.4	30.0		
		3	13112	2.1	31.5		
		12	13148	0.6	36.0		
		1/2 12.7 mm	9/32 7.14 mm	1	13204	11.0	55.0
				1-1/4	13205	8.2	51.3
				1-1/2	13206	6.8	51.0
				1-3/4	13207	6.0	52.5
2	13208			5.5	55.0		
2-1/2	13210			4.5	56.3		
3	13212			3.5	52.5		
3-1/2	13214			3.0	52.5		
4-1/2	13218			2.5	56.3		
5-1/2	13222			2.1	57.8		
6-1/2	13226			1.4	45.5		
7-1/2	13230			1.2	45.0		
12	13248	0.7	42.0				
5/8 15.88 mm	11/32 8.73 mm	1	13304	16.4	82.0		
		1-1/4	13305	12.8	80.0		
		1-1/2	13306	10.8	81.0		
		1-3/4	13307	9.6	84.0		
		2	13308	8.8	88.0		
		2-1/2	13310	6.0	75.0		
		3	13312	5.6	84.0		
		3-1/2	13314	4.8	84.0		
		4	13316	4.4	88.0		
		12	13348	1.6	96.0		
		3/4 19.05 mm	3/8 9.53 mm	1	13404	31.2	156.0
				1-1/4	13405	25.6	160.0
1-1/2	13406			20.0	150.0		
1-3/4	13407			17.6	154.0		
2	13408			14.4	144.0		
2-1/2	13410			12.0	150.0		
3	13412			9.6	144.0		
3-1/2	13414			8.0	140.0		
4	13416			7.2	144.0		
4-1/2	13418			6.4	144.0		
5	13420			6.0	150.0		
5-1/2	13422			5.5	151.3		
6	13424	5.0	150.0				
6-1/2	13426	4.5	146.3				
7-1/2	13430	3.8	142.5				
12	13448	2.4	144.0				

MEDIUM DUTY BLUE				RATE	MAX. RATE *
HOLE DIA.	ROD DIA.	FREE	PART	LBS. / IN.	POUNDS AT
O.D. (A)	I.D. (B)	LENGTH (C)	NUMBER	1/10 IN.	50% DEF.
1 25.4 mm	1/2 12.70 mm	1	13504	55.0	275.0
		1-1/4	13505	45.0	281.3
		1-1/2	13506	35.0	262.5
		1-3/4	13507	30.0	262.5
		2	13508	26.0	260.0
		2-1/2	13510	20.0	250.0
		3	13512	16.5	247.5
		3-1/2	13514	15.0	262.5
		4	13516	12.0	240.0
		4-1/2	13518	10.4	234.0
		5	13520	9.6	240.0
		5-1/2	13522	8.8	242.0
1-1/4 31.75 mm	5/8 15.88 mm	1-1/2	13606	49.6	372.0
		1-3/4	13607	42.4	371.0
		2	13608	35.2	352.0
		2-1/2	13610	28.8	360.0
		3	13612	24.0	360.0
		3-1/2	13614	20.0	350.0
		4	13616	17.6	352.0
		4-1/2	13618	16.0	360.0
		5	13620	13.6	340.0
		5-1/2	13622	12.8	352.0
		6	13624	12.0	360.0
		7	13628	10.4	364.0
8	13632	8.8	352.0		
10	13640	7.2	360.0		
12	13648	6.0	360.0		
1-1/2 38.10 mm	3/4 19.05 mm	2	13708	53.0	530.0
		2-1/2	13710	45.0	562.5
		3	13712	36.0	540.0
		3-1/2	13714	30.0	525.0
		4	13716	27.0	540.0
		4-1/2	13718	23.0	517.5
		5	13720	21.0	525.0
		5-1/2	13722	18.5	508.8
		6	13724	17.0	510.0
		7	13728	14.5	507.5
		8	13732	12.8	512.0
		10	13740	10.0	500.0
12	13748	8.0	480.0		
2 50.80 mm	1 25.40 mm	2-1/2	13810	100.0	1250.0
		3	13812	83.0	1245.0
		3-1/2	13814	64.8	1134.0
		4	13816	60.0	1200.0
		4-1/2	13818	53.0	1192.5
		5	13820	47.0	1175.0
		5-1/2	13822	39.2	1078.0
		6	13824	39.0	1170.0
		7	13828	31.2	1092.0
		8	13832	28.5	1140.0
		10	13840	20.8	1040.0
		12	13848	17.5	1050.0



Load Deflection

- 25% of free length for Optimum Life
- 35% of free length for Long Life
- 40% of Free length Maximum Operating Deflection
- * 50% 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.