



## RAYMOND BLUE MEDIUM DUTY DIE SPRINGS



Raymond MEDIUM DUTY DIE SPRINGS						INCH SERIES BLUE							
Spring O.D. Hole Dia.	Spring I.D. Rod Dia.	Free Length (in)	CATALOG NUMBER	PART NUMBER	Load at 1/10 in. Def. (lb)	LOAD DEFLECTION TABLE							
						For Optimum Life (25% of free length)		For Long Life (35% of free length)		Maximum Operating Def. (40% of free length)		*Maximum Deflection (50% of free length)	
						Load (lb)	Deflection (in)	Load (lb)	Deflection (in)	Load (lb)	Deflection (in)	Load (lb)	Deflection (in)
A	B	C											
3/8	3/16	1	04 M 10	M-100	6.0	15.0	0.25	21.0	0.35	24.0	0.40	30.0	0.50
		1 1/4	04 M 12	M-100A	5.4	16.9	0.31	23.6	0.44	27.0	0.50	33.8	0.63
		1 1/2	04 M 15	M-101	4.0	15.0	0.38	21.0	0.53	24.0	0.60	30.0	0.75
		1 3/4	04 M 17	M-101A	3.4	14.9	0.44	20.8	0.61	23.8	0.70	29.8	0.88
		2	04 M 20	M-102	2.8	14.0	0.50	19.6	0.70	22.4	0.80	28.0	1.00
		2 1/2	04 M 25	M-103	2.4	15.0	0.63	21.0	0.88	24.0	1.00	30.0	1.25
		3	04 M 30	M-104	2.1	15.8	0.75	22.0	1.05	25.2	1.20	31.5	1.50
		12	04 M 120	M-105	0.6	18.0	3.00	25.2	4.20	28.8	4.80	36.0	6.00
		1/2	9/32	1	05 M 10	M-110	11.0	27.5	0.25	38.5	0.35	44.0	0.40
1 1/4	05 M 12			M-110A	8.2	25.6	0.31	35.9	0.44	41.0	0.50	51.3	0.63
1 1/2	05 M 15			M-111	6.8	25.5	0.38	35.7	0.53	40.8	0.60	51.0	0.75
1 3/4	05 M 17			M-111A	6.0	26.3	0.44	36.8	0.61	42.0	0.70	52.5	0.88
2	05 M 20			M-112	5.5	27.5	0.50	38.5	0.70	44.0	0.80	55.0	1.00
2 1/2	05 M 25			M-112A	4.5	28.1	0.63	39.4	0.88	45.0	1.00	56.3	1.25
3	05 M 30			M-113	3.5	26.3	0.75	36.8	1.05	42.0	1.20	52.5	1.50
3 1/2	05 M 35			M-113A	3.0	26.3	0.88	36.8	1.23	42.0	1.40	52.5	1.75
4 1/2	05 M 45			M-114	2.5	28.1	1.13	39.4	1.58	45.0	1.80	56.3	2.25
5 1/2	05 M 55			M-114A	2.1	28.9	1.38	40.4	1.93	46.2	2.20	57.8	2.75
6 1/2	05 M 65			M-115	1.4	22.8	1.63	31.9	2.28	36.4	2.60	45.5	3.25
7 1/2	05 M 75			M-115A	1.2	22.5	1.88	31.5	2.63	36.0	3.00	45.0	3.75
12	05 M 120	M-116	0.7	21.0	3.00	29.4	4.20	33.6	4.80	42.0	6.00		
5/8	11/32	1	06 M 10	M-120	16.4	41.0	0.25	57.4	0.35	65.6	0.40	82.0	0.50
		1 1/4	06 M 12	M-120A	12.8	40.0	0.31	56.0	0.44	64.0	0.50	80.0	0.63
		1 1/2	06 M 15	M-121	10.8	40.5	0.38	56.7	0.53	64.8	0.60	81.0	0.75
		1 3/4	06 M 17	M-121A	9.6	42.0	0.44	58.8	0.61	67.2	0.70	84.0	0.88
		2	06 M 20	M-122	8.8	44.0	0.50	61.6	0.70	70.4	0.80	88.0	1.00
		2 1/2	06 M 25	M-123	6.0	37.5	0.63	52.5	0.88	60.0	1.00	75.0	1.25
		3	06 M 30	M-124	5.6	42.0	0.75	58.8	1.05	67.2	1.20	84.0	1.50
		3 1/2	06 M 35	M-125	4.8	42.0	0.88	58.8	1.23	67.2	1.40	84.0	1.75
		4	06 M 40	M-126	4.4	44.0	1.00	61.6	1.40	70.4	1.60	88.0	2.00
12	06 M 120	M-127	1.6	48.0	3.00	67.2	4.20	76.8	4.80	96.0	6.00		
3/4	3/8	1	07 M 10	M-1	31.2	78.0	0.25	109.2	0.35	124.8	0.40	156.0	0.50
		1 1/4	07 M 12	M-1A	25.6	80.0	0.31	112.0	0.44	128.0	0.50	160.0	0.63
		1 1/2	07 M 15	M-2	20.0	75.0	0.38	105.0	0.53	120.0	0.60	150.0	0.75
		1 3/4	07 M 17	M-2A	17.6	77.0	0.44	107.8	0.61	123.2	0.70	154.0	0.88
		2	07 M 20	M-3	14.4	72.0	0.50	100.8	0.70	115.2	0.80	144.0	1.00
		2 1/2	07 M 25	M-4	12.0	75.0	0.63	105.0	0.88	120.0	1.00	150.0	1.25
		3	07 M 30	M-5	9.6	72.0	0.75	100.8	1.05	115.2	1.20	144.0	1.50
		3 1/2	07 M 35	M-6	8.0	70.0	0.88	98.0	1.23	112.0	1.40	140.0	1.75
		4	07 M 40	M-7	7.2	72.0	1.00	100.8	1.40	115.2	1.60	144.0	2.00
		4 1/2	07 M 45	M-8	6.4	72.0	1.13	100.8	1.58	115.2	1.80	144.0	2.25
		5	07 M 50	M-9	6.0	75.0	1.25	105.0	1.75	120.0	2.00	150.0	2.50
		5 1/2	07 M 55	M-10	5.5	75.6	1.38	105.9	1.93	121.0	2.20	151.3	2.75
		6	07 M 60	M-11	5.0	75.0	1.50	105.0	2.10	120.0	2.40	150.0	3.00
		6 1/2	07 M 65	M-11A	4.5	73.1	1.63	102.4	2.28	117.0	2.60	146.3	3.25
		7 1/2	07 M 75	M-12	3.8	71.3	1.88	99.8	2.63	114.0	3.00	142.5	3.75
12	07 M 120	M-12A	2.4	72.0	3.00	100.8	4.20	115.2	4.80	144.0	6.00		

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