



RAYMOND RED MEDIUM HEAVY DUTY DIE SPRINGS



Raymond MEDIUM HEAVY DUTY DIE SPRINGS					INCH SERIES RED								
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 (20% of free length)		For Long Life (25% of free length)		Maximum Operating Def. (30% of free length)		*Maximum Deflection (37% 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 MH 10	MHC-100	9.0	18.0	0.20	22.5	0.25	27.0	0.30	33.3	0.37
		1 1/4	04 MH 12	MHC-100A	7.3	18.3	0.25	22.8	0.31	27.4	0.38	33.8	0.46
		1 1/2	04 MH 15	MHC-101	6.7	20.1	0.30	25.1	0.38	30.2	0.45	37.2	0.56
		1 3/4	04 MH 17	MHC-101A	5.8	20.3	0.35	25.4	0.44	30.5	0.53	37.6	0.65
		2	04 MH 20	MHC-102	5.0	20.0	0.40	25.0	0.50	30.0	0.60	37.0	0.74
		2 1/2	04 MH 25	MHC-103	4.2	21.0	0.50	26.3	0.63	31.5	0.75	38.9	0.93
		3	04 MH 30	MHC-104	3.0	18.0	0.60	22.5	0.75	27.0	0.90	33.3	1.11
		12	04 MH 120	MHC-106	0.9	21.6	2.40	27.0	3.00	32.4	3.60	40.0	4.44
1/2	9/32	1	05 MH 10	MHC-110	16.8	33.6	0.20	42.0	0.25	50.4	0.30	62.2	0.37
		1 1/4	05 MH 12	MHC-110A	13.0	32.5	0.25	40.6	0.31	48.8	0.38	60.1	0.46
		1 1/2	05 MH 15	MHC-111	9.5	28.5	0.30	35.6	0.38	42.8	0.45	52.7	0.56
		1 3/4	05 MH 17	MHC-111A	8.5	29.8	0.35	37.2	0.44	44.6	0.53	55.0	0.65
		2	05 MH 20	MHC-112	7.5	30.0	0.40	37.5	0.50	45.0	0.60	55.5	0.74
		2 1/2	05 MH 25	MHC-113	6.0	30.0	0.50	37.5	0.63	45.0	0.75	55.5	0.93
		3	05 MH 30	MHC-114	5.7	34.2	0.60	42.8	0.75	51.3	0.90	63.3	1.11
		3 1/2	05 MH 35	MHC-115	4.0	28.0	0.70	35.0	0.88	42.0	1.05	51.8	1.30
12	05 MH 120	MHC-117	1.2	28.8	2.40	36.0	3.00	43.2	3.60	53.3	4.44		
5/8	11/32	1	06 MH 10	MHC-120	30.0	60.0	0.20	75.0	0.25	90.0	0.30	111.0	0.37
		1 1/4	06 MH 12	MHC-120A	21.5	53.8	0.25	67.2	0.31	80.6	0.38	99.4	0.46
		1 1/2	06 MH 15	MHC-121	19.0	57.0	0.30	71.3	0.38	85.5	0.45	105.5	0.56
		1 3/4	06 MH 17	MHC-121A	16.8	58.8	0.35	73.5	0.44	88.2	0.53	108.8	0.65
		2	06 MH 20	MHC-122	14.8	59.2	0.40	74.0	0.50	88.8	0.60	109.5	0.74
		2 1/2	06 MH 25	MHC-123	11.5	57.5	0.50	71.9	0.63	86.3	0.75	106.4	0.93
		3	06 MH 30	MHC-124	10.0	60.0	0.60	75.0	0.75	90.0	0.90	111.0	1.11
		3 1/2	06 MH 35	MHC-125	8.5	59.5	0.70	74.4	0.88	89.3	1.05	110.1	1.30
4	06 MH 40	MHC-126	7.6	60.8	0.80	76.0	1.00	91.2	1.20	112.5	1.48		
12	06 MH 120	MHC-127	2.7	64.8	2.40	81.0	3.00	97.2	3.60	119.9	4.44		
3/4	3/8	1	07 MH 10	MHC-1	50.0	100.0	0.20	125.0	0.25	150.0	0.30	185.0	0.37
		1 1/4	07 MH 12	MHC-1A	38.0	95.0	0.25	118.8	0.31	142.5	0.38	175.8	0.46
		1 1/2	07 MH 15	MHC-2	32.0	96.0	0.30	120.0	0.38	144.0	0.45	177.6	0.56
		1 3/4	07 MH 17	MHC-2A	28.8	100.8	0.35	126.0	0.44	151.2	0.53	186.5	0.65
		2	07 MH 20	MHC-3	24.8	99.2	0.40	124.0	0.50	148.8	0.60	183.5	0.74
		2 1/2	07 MH 25	MHC-4	19.2	96.0	0.50	120.0	0.63	144.0	0.75	177.6	0.93
		3	07 MH 30	MHC-5	14.4	86.4	0.60	108.0	0.75	129.6	0.90	159.8	1.11
		3 1/2	07 MH 35	MHC-6	12.8	89.6	0.70	112.0	0.88	134.4	1.05	165.8	1.30
		4	07 MH 40	MHC-7	12.0	96.0	0.80	120.0	1.00	144.0	1.20	177.6	1.48
		4 1/2	07 MH 45	MHC-8	11.2	100.8	0.90	126.0	1.13	151.2	1.35	186.5	1.67
		5	07 MH 50	MHC-9	9.0	90.0	1.00	112.5	1.25	135.0	1.50	166.5	1.85
		5 1/2	07 MH 55	MHC-10	8.0	88.0	1.10	110.0	1.38	132.0	1.65	162.8	2.04
6	07 MH 60	MHC-11	7.5	90.0	1.20	112.5	1.50	135.0	1.80	166.5	2.22		
12	07 MH 120	MHC-11A	3.6	86.4	2.40	108.0	3.00	129.6	3.60	159.8	4.44		

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