



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)	
A	B	C				Load (lb)	Deflection (in)	Load (lb)	Deflection (in)	Load (lb)	Deflection (in)	Load (lb)	Deflection (in)
1	1/2	1	10 MH 10	MHC-12	76.0	152.0	0.20	190.0	0.25	228.0	0.30	281.2	0.37
		1 1/4	10 MH 12	MHC-12A	62.4	156.0	0.25	195.0	0.31	234.0	0.38	288.6	0.46
		1 1/2	10 MH 15	MHC-13	49.6	148.8	0.30	186.0	0.38	223.2	0.45	275.3	0.56
		1 3/4	10 MH 17	MHC-13A	44.0	154.0	0.35	192.5	0.44	231.0	0.53	284.9	0.65
		2	10 MH 20	MHC-14	40.0	160.0	0.40	200.0	0.50	240.0	0.60	296.0	0.74
		2 1/2	10 MH 25	MHC-15	31.0	155.0	0.50	193.8	0.63	232.5	0.75	286.8	0.93
		3	10 MH 30	MHC-16	25.0	150.0	0.60	187.5	0.75	225.0	0.90	277.5	1.11
		3 1/2	10 MH 35	MHC-17	21.6	151.2	0.70	189.0	0.88	226.8	1.05	279.7	1.30
		4	10 MH 40	MHC-18	18.4	147.2	0.80	184.0	1.00	220.8	1.20	272.3	1.48
		4 1/2	10 MH 45	MHC-19	17.0	153.0	0.90	191.3	1.13	229.5	1.35	283.1	1.67
		5	10 MH 50	MHC-20	14.4	144.0	1.00	180.0	1.25	216.0	1.50	266.4	1.85
		5 1/2	10 MH 55	MHC-21	12.8	140.8	1.10	176.0	1.38	211.2	1.65	260.5	2.04
1 1/4	5/8	6	10 MH 60	MHC-22	12.0	144.0	1.20	180.0	1.50	216.0	1.80	266.4	2.22
		7	10 MH 70	MHC-23	10.0	140.0	1.40	175.0	1.75	210.0	2.10	259.0	2.59
		8	10 MH 80	MHC-24	8.8	140.8	1.60	176.0	2.00	211.2	2.40	260.5	2.96
		12	10 MH 120	MHC-24A	6.2	148.8	2.40	186.0	3.00	223.2	3.60	275.3	4.44
		1 1/2	12 MH 15	MHC-36	114.4	343.2	0.30	429.0	0.38	514.8	0.45	634.9	0.56
		1 3/4	12 MH 17	MHC-36A	100.8	352.8	0.35	441.0	0.44	529.2	0.53	652.7	0.65
		2	12 MH 20	MHC-37	86.4	345.6	0.40	432.0	0.50	518.4	0.60	639.4	0.74
		2 1/2	12 MH 25	MHC-38	62.4	312.0	0.50	390.0	0.63	468.0	0.75	577.2	0.93
		3	12 MH 30	MHC-39	51.2	307.2	0.60	384.0	0.75	460.8	0.90	568.3	1.11
		3 1/2	12 MH 35	MHC-40	44.0	308.0	0.70	385.0	0.88	462.0	1.05	569.8	1.30
		4	12 MH 40	MHC-41	36.8	294.4	0.80	368.0	1.00	441.6	1.20	544.6	1.48
		4 1/2	12 MH 45	MHC-42	32.0	288.0	0.90	360.0	1.13	432.0	1.35	532.8	1.67
5	12 MH 50	MHC-43	29.0	290.0	1.00	362.5	1.25	435.0	1.50	536.5	1.85		
5 1/2	12 MH 55	MHC-44	26.4	290.4	1.10	363.0	1.38	435.6	1.65	537.2	2.04		
6	12 MH 60	MHC-45	25.0	300.0	1.20	375.0	1.50	450.0	1.80	555.0	2.22		
7	12 MH 70	MHC-46	20.0	280.0	1.40	350.0	1.75	420.0	2.10	518.0	2.59		
8	12 MH 80	MHC-47	18.4	294.4	1.60	368.0	2.00	441.6	2.40	544.6	2.96		
10	12 MH 100	MHC-48	14.5	290.0	2.00	362.5	2.50	435.0	3.00	536.5	3.70		
12	12 MH 120	MHC-48A	12.4	297.6	2.40	372.0	3.00	446.4	3.60	550.6	4.44		
1 1/2	3/4	2	15 MH 20	MHC-49	108.0	432.0	0.40	540.0	0.50	648.0	0.60	799.2	0.74
		2 1/2	15 MH 25	MHC-50	85.6	428.0	0.50	535.0	0.63	642.0	0.75	791.8	0.93
		3	15 MH 30	MHC-51	62.4	374.4	0.60	468.0	0.75	561.6	0.90	692.6	1.11
		3 1/2	15 MH 35	MHC-52	52.8	369.6	0.70	462.0	0.88	554.4	1.05	683.8	1.30
		4	15 MH 40	MHC-53	48.0	384.0	0.80	480.0	1.00	576.0	1.20	710.4	1.48
		4 1/2	15 MH 45	MHC-54	43.2	388.8	0.90	486.0	1.13	583.2	1.35	719.3	1.67
		5	15 MH 50	MHC-55	36.8	368.0	1.00	460.0	1.25	552.0	1.50	680.8	1.85
		5 1/2	15 MH 55	MHC-55A	34.4	378.4	1.10	473.0	1.38	567.6	1.65	700.0	2.04
		6	15 MH 60	MHC-56	30.4	364.8	1.20	456.0	1.50	547.2	1.80	674.9	2.22
		7	15 MH 70	MHC-56A	26.4	369.6	1.40	462.0	1.75	554.4	2.10	683.8	2.59
		8	15 MH 80	MHC-57	22.0	352.0	1.60	440.0	2.00	528.0	2.40	651.2	2.96
		10	15 MH 100	MHC-58	17.6	352.0	2.00	440.0	2.50	528.0	3.00	651.2	3.70
12	15 MH 120	MHC-58A	14.4	345.6	2.40	432.0	3.00	518.4	3.60	639.4	4.44		
2	1	2 1/2	20 MH 25	MHC-70	118.4	592.0	0.50	740.0	0.63	888.0	0.75	1095.2	0.93
		3	20 MH 30	MHC-71	96.0	576.0	0.60	720.0	0.75	864.0	0.90	1065.6	1.11
		3 1/2	20 MH 35	MHC-72	80.0	560.0	0.70	700.0	0.88	840.0	1.05	1036.0	1.30
		4	20 MH 40	MHC-73	66.4	531.2	0.80	664.0	1.00	796.8	1.20	982.7	1.48
		4 1/2	20 MH 45	MHC-74	60.0	540.0	0.90	675.0	1.13	810.0	1.35	999.0	1.67
		5	20 MH 50	MHC-75	56.0	560.0	1.00	700.0	1.25	840.0	1.50	1036.0	1.85
		5 1/2	20 MH 55	MHC-76	50.4	554.4	1.10	693.0	1.38	831.6	1.65	1025.6	2.04
		6	20 MH 60	MHC-77	47.2	566.4	1.20	708.0	1.50	849.6	1.80	1047.8	2.22
		7	20 MH 70	MHC-79	40.0	560.0	1.40	700.0	1.75	840.0	2.10	1036.0	2.59
		8	20 MH 80	MHC-80	35.2	563.2	1.60	704.0	2.00	844.8	2.40	1041.9	2.96
		10	20 MH 100	MHC-82	26.0	520.0	2.00	650.0	2.50	780.0	3.00	962.0	3.70
		12	20 MH 120	MHC-83	22.4	537.6	2.40	672.0	3.00	806.4	3.60	994.6	4.44

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