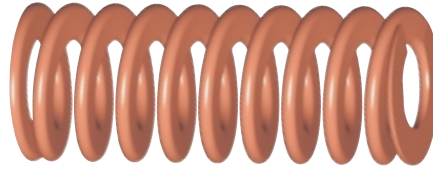


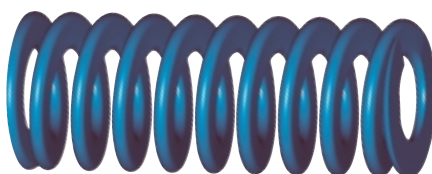
Heavy Duty (Gold)



Hole Dia. OD	Rod Dia. ID	Free Length	Catalog Number	Load at 1/10" Deflec. (lbs.)	Max. Operating Deflection 25% of free length	
					Load	Deflec.
					(lbs.)	(in.)
3/8	3/16	1"	037H0100	11.0	27.5	0.25
		1-1/4	037H0125	9.8	30.6	0.31
		1-1/2	037H0150	8.0	30.0	0.38
		1-3/4	037H0175	8.4	36.8	0.44
		2"	037H0200	7.2	36.0	0.50
		2-1/2	037H0250	5.5	34.4	0.63
		3"	037H0300	4.2	31.5	0.75
		12"	037H1200	1.2	36.0	3.00
1/2	9/32	1"	050H0100	23.6	59.0	0.25
		1-1/4	050H0125	18.6	58.1	0.31
		1-1/2	050H0150	15.5	58.1	0.38
		1-3/4	050H0175	13.8	60.4	0.44
		2"	050H0200	11.0	55.0	0.50
		2-1/2	050H0250	8.4	52.5	0.63
		3"	050H0300	7.4	55.5	0.75
		3-1/2	050H0350	6.0	52.5	0.88
5/8	11/32	1"	062H0100	42.4	106.0	0.25
		1-1/4	062H0125	29.6	92.5	0.31
		1-1/2	062H0150	27.2	102.0	0.38
		1-3/4	062H0175	24.0	105.0	0.44
		2"	062H0200	20.8	104.0	0.50
		2-1/2	062H0250	17.0	106.3	0.63
		3"	062H0300	14.4	108.0	0.75
		3-1/2	062H0350	12.2	106.8	0.88
3/4	3/8	1"	075H0100	108.0	270.0	0.25
		1-1/4	075H0125	88.0	275.0	0.31
		1-1/2	075H0150	65.6	246.0	0.38
		1-3/4	075H0175	60.0	262.5	0.44
		2"	075H0200	49.6	248.0	0.50
		2-1/2	075H0250	40.0	250.0	0.63
		3"	075H0300	34.0	255.0	0.75
		3-1/2	075H0350	28.0	245.0	0.88
1"	1/2	4"	075H0400	25.0	250.0	1.00
		4-1/2	075H0450	22.0	247.5	1.13
		5"	075H0500	19.5	243.8	1.25
		5-1/2	075H0550	17.0	233.8	1.38
		6"	075H0600	16.0	240.0	1.50
		12"	075H1200	8.0	240.0	3.00
		1"	100H0100	208.0	520.0	0.25
		1-1/4	100H0125	171.2	535.0	0.31
1"	1/2	1-1/2	100H0150	118.4	444.0	0.38
		1-3/4	100H0175	104.0	455.0	0.44
		2"	100H0200	90.0	450.0	0.50
		2-1/2	100H0250	68.0	425.0	0.63
		3"	100H0300	54.4	408.0	0.75
		3-1/2	100H0350	45.6	399.0	0.88
		4"	100H0400	40.0	400.0	1.00
		4-1/2	100H0450	35.2	396.0	1.13
1"	1/2	5"	100H0500	31.2	390.0	1.25

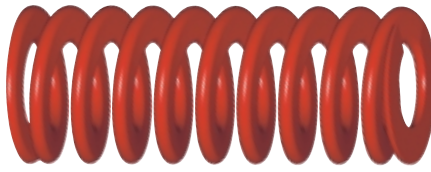
Hole Dia. OD	Rod Dia. ID	Free Length	Catalog Number	Load at 1/10" Deflec. (lbs.)	Max. Operating Deflection 25% of free length	
					Load	Deflec.
					(lbs.)	(in.)
1"	1/2	5-1/2	100H0550	28.8	396.0	1.38
		6"	100H0600	25.6	384.0	1.50
		7"	100H0700	22.4	392.0	1.75
		8"	100H0800	19.2	384.0	2.00
		12"	100H1200	12.0	360.0	3.00
1-1/4	5/8	1-1/2	125H0150	212.0	795.0	0.38
		1-3/4	125H0175	181.6	794.5	0.44
		2"	125H0200	149.6	748.0	0.50
		2-1/2	125H0250	117.6	735.0	0.63
		3"	125H0300	95.2	714.0	0.75
		3-1/2	125H0350	75.2	658.0	0.88
		4"	125H0400	66.4	664.0	1.00
		4-1/2	125H0450	58.4	657.0	1.13
		5"	125H0500	53.0	662.5	1.25
		5-1/2	125H0550	47.2	649.0	1.38
		6"	125H0600	42.4	636.0	1.50
		7"	125H0700	36.8	644.0	1.75
		8"	125H0800	32.8	656.0	2.00
		10"	125H1000	25.6	640.0	2.50
		12"	125H1200	20.8	624.0	3.00
1-1/2	3/4	2"	150H0200	190.4	952.0	0.50
		2-1/2	150H0250	155.0	968.8	0.63
		3"	150H0300	130.0	975.0	0.75
		3-1/2	150H0350	106.4	931.0	0.88
		4"	150H0400	91.2	912.0	1.00
		4-1/2	150H0450	78.4	882.0	1.13
		5"	150H0500	71.2	890.0	1.25
		5-1/2	150H0550	64.0	880.0	1.38
		6"	150H0600	58.4	876.0	1.50
		7"	150H0700	49.6	868.0	1.75
		8"	150H0800	43.2	864.0	2.00
		10"	150H1000	34.4	860.0	2.50
		12"	150H1200	28.8	864.0	3.00
2"	1"	2-1/2	200H0250	260.0	1625.0	0.63
		3"	200H0300	200.0	1500.0	0.75
		3-1/2	200H0350	170.0	1487.5	0.88
		4"	200H0400	150.0	1500.0	1.00
		4-1/2	200H0450	120.0	1350.0	1.13
		5"	200H0500	110.0	1375.0	1.25
		5-1/2	200H0550	100.0	1375.0	1.38
		6"	200H0600	94.0	1410.0	1.50
		7"	200H0700	82.0	1435.0	1.75
		8"	200H0800	73.0	1460.0	2.00
		10"	200H1000	55.0	1375.0	2.50
		12"	200H1200	42.0	1260.0	3.00

Raymond
Die Springs



Hole Dia. OD	Rod Dia. ID	Free Length	Catalog Number	Load at 1/10"	Max. Operating Deflection 40% of free length	
				Deflec. (lbs.)	Load (lbs.)	Deflec. (in.)
3/8	3/16	1"	037M0100	6.0	24.0	0.40
		1-1/4	037M0125	5.4	27.0	0.50
		1-1/2	037M0150	4.0	24.0	0.60
		1-3/4	037M0175	3.4	23.8	0.70
		2"	037M0200	2.8	22.4	0.80
		2-1/2	037M0250	2.4	24.0	1.00
		3"	037M0300	2.1	25.2	1.20
		12"	037M1200	0.6	28.8	4.80
1/2	9/32	1"	050M0100	11.0	44.0	0.40
		1-1/4	050M0125	8.2	41.0	0.50
		1-1/2	050M0150	6.8	40.8	0.60
		1-3/4	050M0175	6.0	42.0	0.70
		2"	050M0200	5.5	44.0	0.80
		2-1/2	050M0250	4.5	45.0	1.00
		3"	050M0300	3.5	42.0	1.20
		3-1/2	050M0350	3.0	42.0	1.40
		4-1/2	050M0450	2.5	45.0	1.80
		5-1/2	050M0550	2.1	46.2	2.20
		6-1/2	050M0650	1.4	36.4	2.60
		7-1/2	050M0750	1.2	36.0	3.00
		12"	050M1200	0.7	33.6	4.80
5/8	11/32	1"	062M0100	16.4	65.6	0.40
		1-1/4	062M0125	12.8	64.0	0.50
		1-1/2	062M0150	10.8	64.8	0.60
		1-3/4	062M0175	9.6	67.2	0.70
		2"	062M0200	8.8	70.4	0.80
		2-1/2	062M0250	6.0	60.0	1.00
		3"	062M0300	5.6	67.2	1.20
		3-1/2	062M0350	4.8	67.2	1.40
3/4	3/8	4"	062M0400	4.4	70.4	1.60
		12"	062M1200	1.6	76.8	4.80
		1"	075M0100	31.2	124.8	0.40
		1-1/4	075M0125	25.6	128.0	0.50
		1-1/2	075M0150	20.0	120.0	0.60
		1-3/4	075M0175	17.6	123.2	0.70
		2"	075M0200	14.4	115.2	0.80
		2-1/2	075M0250	12.0	120.0	1.00
		3"	075M0300	9.6	115.2	1.20
		3-1/2	075M0350	8.0	112.0	1.40
		4"	075M0400	7.2	115.2	1.60
		4-1/2	075M0450	6.4	115.2	1.80
		5"	075M0500	6.0	120.0	2.00
		5-1/2	075M0550	5.5	121.0	2.20
		6"	075M0600	5.0	120.0	2.40
		6-1/2	075M0650	4.5	117.0	2.60
		7-1/2	075M0750	3.8	114.0	3.00
		12"	075M1200	2.4	115.2	4.80
1"	1/2	1"	100M0100	55.0	220.0	0.40
		1-1/4	100M0125	45.0	225.0	0.50
		1-1/2	100M0150	35.0	210.0	0.60
		1-3/4	100M0175	30.0	210.0	0.70
		2"	100M0200	26.0	208.0	0.80

Hole Dia. OD	Rod Dia. ID	Free Length	Catalog Number	Load at 1/10"	Max. Operating Deflection 40% of free length	
				Deflec. (lbs.)	Load (lbs.)	Deflec. (in.)
1"	1/2	2-1/2	100M0250	20.0	200.0	1.00
		3"	100M0300	16.5	198.0	1.20
		3-1/2	100M0350	15.0	210.0	1.40
		4"	100M0400	12.0	192.0	1.60
		4-1/2	100M0450	10.4	187.2	1.80
		5"	100M0500	9.6	192.0	2.00
		5-1/2	100M0550	8.8	193.6	2.20
		6"	100M0600	8.0	192.0	2.40
		7"	100M0700	7.2	201.6	2.80
		8"	100M0800	6.0	192.0	3.20
		12"	100M1200	4.0	192.0	4.80
1-1/4	5/8	1-1/2	125M0150	49.6	297.6	0.60
		1-3/4	125M0175	42.4	296.8	0.70
		2"	125M0200	35.2	281.6	0.80
		2-1/2	125M0250	28.8	288.0	1.00
		3"	125M0300	24.0	288.0	1.20
		3-1/2	125M0350	20.0	280.0	1.40
		4"	125M0400	17.6	281.6	1.60
		4-1/2	125M0450	16.0	288.0	1.80
		5"	125M0500	13.6	272.0	2.00
		5-1/2	125M0550	12.8	281.6	2.20
		6"	125M0600	12.0	288.0	2.40
		7"	125M0700	10.4	291.2	2.80
		8"	125M0800	8.8	281.6	3.20
		10"	125M1000	7.2	288.0	4.00
		12"	125M1200	6.0	288.0	4.80
1-1/2	3/4	2"	150M0200	53.0	424.0	0.80
		2-1/2	150M0250	45.0	450.0	1.00
		3"	150M0300	36.0	432.0	1.20
		3-1/2	150M0350	30.0	420.0	1.40
		4"	150M0400	27.0	432.0	1.60
		4-1/2	150M0450	23.0	414.0	1.80
		5"	150M0500	21.0	420.0	2.00
		5-1/2	150M0550	18.5	407.0	2.20
		6"	150M0600	17.0	408.0	2.40
		7"	150M0700	14.5	406.0	2.80
		8"	150M0800	12.8	409.6	3.20
		10"	150M1000	10.0	400.0	4.00
		12"	150M1200	8.0	384.0	4.80
2"	1"	2-1/2	200M0250	100.0	1000.0	1.00
		3"	200M0300	83.0	996.0	1.20
		3-1/2	200M0350	64.8	907.2	1.40
		4"	200M0400	60.0	960.0	1.60
		4-1/2	200M0450	53.0	954.0	1.80
		5"	200M0500	47.0	940.0	2.00
		5-1/2	200M0550	39.2	862.4	2.20
		6"	200M0600	39.0	936.0	2.40
		7"	200M0700	31.2	873.6	2.80
		8"	200M0800	28.5	912.0	3.20
		10"	200M1000	20.8	832.0	4.00
		12"	200M1200	17.5	840.0	4.80



Hole Dia. OD	Rod Dia. ID	Free Length	Catalog Number	Load at 1/10"	Max. Operating Deflection 30% of free length	
				Deflec. (lbs.)	Deflec.	
					Load (lbs.)	Deflec. (in.)
3/8	3/16	1"	037MH0100	9.0	27.0	0.30
		1-1/4	037MH0125	7.3	27.4	0.38
		1-1/2	037MH0150	6.7	30.2	0.45
		1-3/4	037MH0175	5.8	30.5	0.53
		2"	037MH0200	5.0	30.0	0.60
		2-1/2	037MH0250	4.2	31.5	0.75
		3"	037MH0300	3.0	27.0	0.90
1/2	9/32	12"	037MH1200	0.9	32.4	3.60
		1"	050MH0100	16.8	50.4	0.30
		1-1/4	050MH0125	13.0	48.8	0.38
		1-1/2	050MH0150	9.5	42.8	0.45
		1-3/4	050MH0175	8.5	44.6	0.53
		2"	050MH0200	7.5	45.0	0.60
		2-1/2	050MH0250	6.0	45.0	0.75
5/8	11/32	3"	050MH0300	5.7	51.3	0.90
		3-1/2	050MH0350	4.0	42.0	1.05
		12"	050MH1200	1.2	43.2	3.60
		1"	062MH0100	30.0	90.0	0.30
		1-1/4	062MH0125	21.5	80.6	0.38
		1-1/2	062MH0150	19.0	85.5	0.45
		1-3/4	062MH0175	16.8	88.2	0.53
3/4	3/8	2"	062MH0200	14.8	88.8	0.60
		2-1/2	062MH0250	11.5	86.3	0.75
		3"	062MH0300	10.0	90.0	0.90
		3-1/2	062MH0350	8.5	89.3	1.05
		4"	062MH0400	7.6	91.2	1.20
		12"	062MH1200	2.7	97.2	3.60
		1"	075MH0100	50.0	150.0	0.30
1"	1/2	1-1/4	075MH0125	38.0	142.5	0.38
		1-1/2	075MH0150	32.0	144.0	0.45
		1-3/4	075MH0175	28.8	151.2	0.53
		2"	075MH0200	24.8	148.8	0.60
		2-1/2	075MH0250	19.2	144.0	0.75
		3"	075MH0300	14.4	129.6	0.90
		3-1/2	075MH0350	12.8	134.4	1.05
		4"	075MH0400	12.0	144.0	1.20
		4-1/2	075MH0450	11.2	151.2	1.35
		5"	075MH0500	9.0	135.0	1.50
		5-1/2	075MH0550	8.0	132.0	1.65
		6"	075MH0600	7.5	135.0	1.80
		12"	075MH1200	3.6	129.6	3.60
		1"	100MH0100	76.0	228.0	0.30
		1-1/4	100MH0125	62.4	234.0	0.38
		1-1/2	100MH0150	49.6	223.2	0.45
		1-3/4	100MH0175	44.0	231.0	0.53
		2"	100MH0200	40.0	240.0	0.60
		2-1/2	100MH0250	31.0	232.5	0.75
		3"	100MH0300	25.0	225.0	0.90
		3-1/2	100MH0350	21.6	226.8	1.05
		4"	100MH0400	18.4	220.8	1.20
		4-1/2	100MH0450	17.0	229.5	1.35
		5"	100MH0500	14.4	216.0	1.50

Hole Dia. OD	Rod Dia. ID	Free Length	Catalog Number	Load at 1/10"	Max. Operating Deflection 30% of free length	
				Deflec. (lbs.)	Deflec.	
					Load (lbs.)	Deflec. (in.)
1"	1/2	5-1/2	100MH0550	12.8	211.2	1.65
		6"	100MH0600	12.0	216.0	1.80
		7"	100MH0700	10.0	210.0	2.10
		8"	100MH0800	8.8	211.2	2.40
		12"	100MH1200	6.2	223.2	3.60
1-1/4	5/8	1-1/2	125MH0150	114.4	514.8	0.45
		1-3/4	125MH0175	100.8	529.2	0.53
		2"	125MH0200	86.4	518.4	0.60
		2-1/2	125MH0250	62.4	468.0	0.75
		3"	125MH0300	51.2	460.8	0.90
		3-1/2	125MH0350	44.0	462.0	1.05
		4"	125MH0400	36.8	441.6	1.20
		4-1/2	125MH0450	32.0	432.0	1.35
		5"	125MH0500	29.0	435.0	1.50
		5-1/2	125MH0550	26.4	435.6	1.65
		6"	125MH0600	25.0	450.0	1.80
		7"	125MH0700	20.0	420.0	2.10
		8"	125MH0800	18.4	441.6	2.40
		10"	125MH1000	14.5	435.0	3.00
1-1/2	3/4	12"	125MH1200	12.4	446.4	3.60
		2"	150MH0200	108.0	648.0	0.60
		2-1/2	150MH0250	85.6	642.0	0.75
		3"	150MH0300	62.4	561.6	0.90
		3-1/2	150MH0350	52.8	554.4	1.05
		4"	150MH0400	48.0	576.0	1.20
		4-1/2	150MH0450	43.2	583.2	1.35
		5"	150MH0500	36.8	552.0	1.50
		5-1/2	150MH0550	34.4	567.6	1.65
		6"	150MH0600	30.4	547.2	1.80
		7"	150MH0700	26.4	554.4	2.10
		8"	150MH0800	22.0	528.0	2.40
		10"	150MH1000	17.6	528.0	3.00
		12"	150MH1200	14.4	518.4	3.60
2"	1"	2-1/2	200MH0250	118.4	888.0	0.75
		3"	200MH0300	96.0	864.0	0.90
		3-1/2	200MH0350	80.0	840.0	1.05
		4"	200MH0400	66.4	796.8	1.20
		4-1/2	200MH0450	60.0	810.0	1.35
		5"	200MH0500	56.0	840.0	1.50
		5-1/2	200MH0550	50.4	831.6	1.65
		6"	200MH0600	47.2	849.6	1.80
		7"	200MH0700	40.0	840.0	2.10
		8"	200MH0800	35.2	844.8	2.40
		10"	200MH1000	26.0	780.0	3.00
		12"	200MH1200	22.4	806.4	3.60