

## MULTIWAVE COMPRESSION SPRINGS

Multiwave springs replace conventional round wire springs when space is critical; they will occupy only 1/3 to 1/2 of the compressed height space of a traditional round wire spring, while providing more deflection with the same load specifications.

SPEC Multiwave springs should be used for all applications requiring tight load deflection specifications where axial space is critical.

Unique manufacturing where a single filament of round edged, pre-tempered flat wire is used to form the springs from a continuous coil. This results in uniform diameters and wave heights.

### MATERIAL

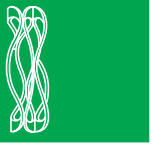
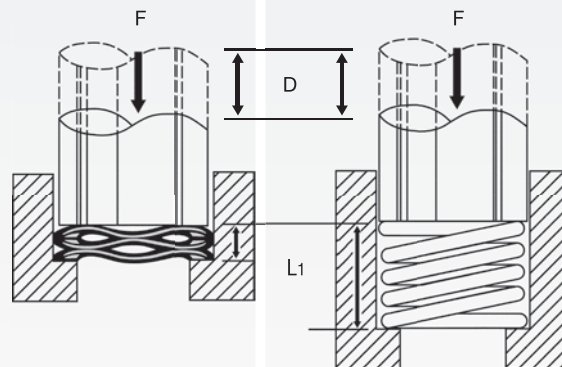
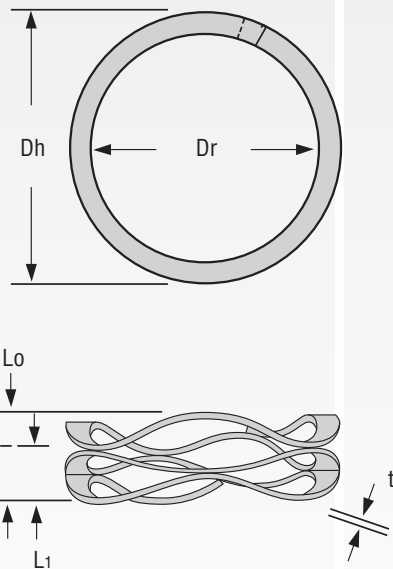
Stainless steel commercial type 17-7 PH (slightly magnetic).  
Maximum application temperature is 650°F (340°C)

### FINISH

Plain finish is standard

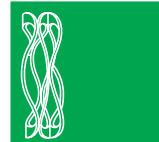
### KEY TO DIMENSIONS

Dh = Hole Size  
Dr = Shaft Size  
t = Thickness  
Lo = Free Height (ref only)  
L<sub>1</sub> = Loaded height  
N = Nominal load  
R = Rate  
F = Force  
D = Deflection



**MULTIWAVE COMPRESSION SPRINGS**

Part Number	Dh (mm)	Dr (mm)	t (mm)	Lo (mm)	L <sub>1</sub> (mm)	N (N)	R (N/mm)
MW0375-0150-04S	9.5	6.4	0.2	3.8	1.58	17.8	7.9
MW0375-0250-04S	9.5	6.4	0.2	6.4	2.74	17.8	4.9
MW0375-0350-04S	9.5	6.4	0.2	8.9	3.81	17.8	3.5
MW0375-0450-04S	9.5	6.4	0.2	11.4	4.95	17.8	2.8
MW0375-0150-07S	9.5	6.4	0.3	3.8	2.06	31.1	17.7
MW0375-0250-07S	9.5	6.4	0.3	6.4	3.68	31.1	11.7
MW0375-0350-07S	9.5	6.4	0.3	8.9	5.13	31.1	8.2
MW0375-0450-07S	9.5	6.4	0.3	11.4	6.66	31.1	6.5
MW0437-0165-04S	11.1	7.1	0.2	4.2	1.60	17.8	6.8
MW0437-0275-04S	11.1	7.1	0.2	7.0	2.77	17.8	4.2
MW0437-0385-04S	11.1	7.1	0.2	9.8	4.06	17.8	3.2
MW0437-0165-08S	11.1	7.1	0.3	4.2	2.08	35.6	16.8
MW0437-0275-08S	11.1	7.1	0.3	7.0	3.61	35.6	10.5
MW0437-0385-08S	11.1	7.1	0.3	9.8	5.03	35.6	7.5
MW0500-0180-05S	12.7	7.9	0.2	4.6	1.58	22.2	7.4
MW0500-0300-05S	12.7	7.9	0.2	7.6	2.72	22.2	4.6
MW0500-0420-05S	12.7	7.9	0.2	10.7	3.81	22.2	3.3
MW0500-0180-10S	12.7	7.9	0.3	4.6	1.65	44.5	15.2
MW0500-0300-10S	12.7	7.9	0.3	7.6	2.90	44.5	9.5
MW0500-0420-10S	12.7	7.9	0.3	10.7	4.12	44.5	6.8
MW0562-0195-05S	14.3	9.5	0.2	5.0	2.03	22.2	7.5
MW0562-0325-05S	14.3	9.5	0.2	8.3	3.43	22.2	4.6
MW0562-0455-05S	14.3	9.5	0.2	11.6	4.83	22.2	3.3
MW0562-0195-11S	14.3	9.5	0.3	5.0	2.18	48.9	17.7
MW0562-0325-11S	14.3	9.5	0.3	8.3	3.68	48.9	10.7
MW0562-0455-11S	14.3	9.5	0.3	11.6	5.31	48.9	7.9
MW0625-0180-06S	15.9	11.4	0.3	4.6	1.40	26.7	8.4
MW0625-0300-06S	15.9	11.4	0.3	7.6	2.16	26.7	4.9
MW0625-0420-06S	15.9	11.4	0.3	10.7	3.25	26.7	3.7
MW0625-0780-06S	15.9	11.4	0.3	19.8	6.05	26.7	1.9
MW0625-0180-12S	15.9	11.4	0.3	4.6	2.64	53.4	27.7
MW0625-0300-12S	15.9	11.4	0.3	7.6	4.45	53.4	16.8
MW0625-0420-12S	15.9	11.4	0.3	10.7	6.25	53.4	12.1
MW0625-0780-12S	15.9	11.4	0.3	19.8	11.53	53.4	6.5
MW0750-0250-07S	19.1	14.0	0.2	6.4	3.61	31.1	11.4
MW0750-0417-07S	19.1	14.0	0.2	10.6	6.25	31.1	7.2
MW0750-0250-13S	19.1	14.0	0.3	6.4	4.04	57.8	25.0
MW0750-0417-13S	19.1	14.0	0.3	10.6	6.86	57.8	15.4
MW0750-0250-22S	19.1	14.0	0.3	6.4	4.29	97.9	47.6
MW0750-0417-22S	19.1	14.0	0.3	10.6	7.39	97.9	30.6
MW0875-0250-12S	22.2	15.2	0.3	6.4	2.97	53.4	15.8
MW0875-0417-12S	22.2	15.2	0.3	10.6	5.26	53.4	10.0
MW0875-0250-18S	22.2	15.2	0.3	6.4	3.15	80.1	25.0
MW0875-0417-18S	22.2	15.2	0.3	10.6	5.44	80.1	15.6
MW0875-0250-25S	22.2	15.2	0.4	6.4	4.22	111.2	52.2
MW0875-0417-25S	22.2	15.2	0.4	10.6	7.06	111.2	31.5
MW0875-0583-25S	22.2	15.2	0.4	14.8	10.03	111.2	23.3
MW1000-0250-12S	25.4	18.5	0.3	6.4	2.13	53.4	12.6
MW1000-0417-12S	25.4	18.5	0.3	10.6	3.68	53.4	7.7
MW1000-0583-12S	25.4	18.5	0.3	14.8	5.11	53.4	5.4
MW1000-0250-18S	25.4	18.5	0.3	6.4	2.21	80.1	19.3
MW1000-0417-18S	25.4	18.5	0.3	10.6	3.76	80.1	11.7
MW1000-0583-18S	25.4	18.5	0.3	14.8	5.39	80.1	8.6
MW1000-0250-25S	25.4	18.5	0.4	6.4	3.33	111.2	36.8
MW1000-0417-25S	25.4	18.5	0.4	10.6	5.77	111.2	23.1
MW1000-0583-25S	25.4	18.5	0.4	14.8	8.10	111.2	16.6
MW1125-0300-12S	28.6	21.6	0.3	7.6	3.71	53.4	13.7
MW1125-0500-12S	28.6	21.6	0.3	12.7	6.35	53.4	8.4
MW1125-0700-12S	28.6	21.6	0.3	17.8	8.74	53.4	6.0
MW1125-0300-20S	28.6	21.6	0.4	7.6	4.06	89.0	25.0
MW1125-0500-20S	28.6	21.6	0.4	12.7	6.86	89.0	15.2
MW1125-0700-20S	28.6	21.6	0.4	17.8	9.68	89.0	11.0
MW1125-0300-30S	28.6	21.6	0.5	7.6	4.52	133.4	43.1
MW1125-0500-30S	28.6	21.6	0.5	12.7	7.70	133.4	26.6
MW1125-0700-30S	28.6	21.6	0.5	17.8	10.69	133.4	18.9
MW1250-0300-12S	31.8	25.4	0.3	7.6	2.13	53.4	9.8
MW1250-0500-12S	31.8	25.4	0.3	12.7	3.78	53.4	6.0
MW1250-0700-12S	31.8	25.4	0.3	17.8	5.26	53.4	4.2
MW1250-0300-20S	31.8	25.4	0.4	7.6	3.15	89.0	20.0
MW1250-0500-20S	31.8	25.4	0.4	12.7	5.46	89.0	12.3
MW1250-0700-20S	31.8	25.4	0.4	17.8	7.70	89.0	8.8



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Part Number	Dh (mm)	Dr (mm)	t (mm)	Lo (mm)	L <sub>1</sub> (mm)	N (N)	R (N/mm)
MW1250-0300-30S	31.8	25.4	0.5	7.6	4.01	133.4	36.8
MW1250-0500-30S	31.8	25.4	0.5	12.7	6.91	133.4	23.1
MW1250-0700-30S	31.8	25.4	0.5	17.8	9.75	133.4	16.6
MW1375-0300-15S	34.9	26.2	0.3	7.6	1.91	66.7	11.7
MW1375-0500-15S	34.9	26.2	0.3	12.7	3.28	66.7	7.0
MW1375-0700-15S	34.9	26.2	0.3	17.8	4.55	66.7	5.1
MW1375-0300-25S	24.9	26.2	0.4	7.6	3.61	111.2	27.7
MW1375-0500-25S	34.9	26.2	0.4	12.7	6.10	111.2	16.8
MW1375-0700-25S	34.9	26.2	0.4	17.8	8.64	111.2	12.1
MW1375-0300-35S	34.9	26.2	0.5	7.6	3.78	155.7	40.6
MW1375-0500-35S	34.9	26.2	0.5	12.7	6.27	155.7	24.2
MW1375-0700-35S	34.9	26.2	0.5	17.8	8.71	155.7	17.2
MW1500-0300-20S	38.1	29.0	0.4	7.6	3.28	89.0	20.5
MW1500-0500-20S	38.1	29.0	0.4	12.7	5.41	89.0	12.3
MW1500-0700-20S	38.1	29.0	0.4	17.8	7.65	89.0	8.8
MW1500-0300-35S	38.1	29.0	0.5	7.6	3.10	155.7	34.5
MW1500-0500-35S	38.1	29.0	0.5	12.7	5.23	155.7	20.8
MW1500-0700-35S	38.1	29.0	0.5	17.8	7.39	155.7	15.1
MW1500-0300-60S	38.1	29.0	0.5	7.6	4.22	266.9	78.4
MW1500-0500-60S	38.1	29.0	0.5	12.7	7.06	266.9	47.3
MW1500-0700-60S	38.1	29.0	0.5	17.8	9.91	266.9	34.0
MW1750-0375-25S	44.5	34.0	0.5	9.5	3.94	111.2	20.0
MW1750-0625-25S	44.5	34.0	0.5	15.9	6.73	111.2	12.1
MW1750-0870-25S	44.5	34.0	0.5	22.1	9.32	111.2	8.8
MW1750-0375-50S	44.5	34.0	0.5	9.5	4.78	222.4	46.7
MW1750-0625-50S	44.5	34.0	0.5	15.9	8.00	222.4	28.2
MW1750-0870-50S	44.5	34.0	0.5	22.1	11.48	222.4	21.0
MW1750-0375-90S	44.5	34.0	0.6	9.5	5.89	400.3	110.1
MW1750-0625-90S	44.5	34.0	0.6	15.9	10.39	400.3	73.0
MW1750-0870-90S	44.5	34.0	0.6	22.1	14.66	400.3	53.7
MW2000-0375-25S	50.8	40.6	0.5	9.5	2.39	111.2	15.6
MW2000-0625-25S	50.8	40.6	0.5	15.9	4.01	111.2	9.5
MW2000-0870-25S	50.8	40.6	0.5	22.1	5.51	111.2	6.7
MW2000-0375-50S	50.8	40.6	0.5	9.5	3.56	222.4	37.3
MW2000-0625-50S	50.8	40.6	0.5	15.9	6.22	222.4	23.1
MW2000-0870-50S	50.8	40.6	0.5	22.1	8.76	222.4	16.6
MW2000-0375-90S	50.8	40.6	0.6	9.5	5.00	400.3	88.6
MW2000-0625-90S	50.8	40.6	0.6	15.9	8.43	400.3	53.7
MW2000-0870-90S	50.8	40.6	0.6	22.1	11.81	400.3	38.9

