



Springs - Die - Imperial - Medium Duty

10/4/2018

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Page 1 of 10

INFORMATION

Vapor degassed high tensile strength chromium alloy steel. Spring ends are ground square. Designed for long life cycle with constant high end deflections and shot peened to increase fatigue life.

Colour coded blue

Efficient operating range is 25 to 40 percent of the length

Maximum deflection is 50 percent of the length

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Part Number	Hole Diameter (A) mm <i>inches</i>	Rod Diameter (B) mm <i>inches</i>	Length (L) mm <i>inches</i>	Load at 2.5mm Deflection N	Load at 50 % Deflection N	Colour
# DS-095-025-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	25.400 <i>1.000</i>	26.7	106.8	Blue
# DS-095-032-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	31.750 <i>1.250</i>	24	120.1	Blue
# DS-095-038-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	38.100 <i>1.500</i>	17.8	106.8	Blue
# DS-095-044-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	44.450 <i>1.750</i>	15.1	105.9	Blue
# DS-095-051-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	50.800 <i>2.000</i>	12.5	99.6	Blue
# DS-095-064-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	63.500 <i>2.500</i>	10.7	106.8	Blue
# DS-095-076-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	76.200 <i>3.000</i>	9.3	112.1	Blue
# DS-095-305-MD	9.525 <i>0.375</i>	4.763 <i>0.188</i>	304.800 <i>12.000</i>	2.7	128.1	Blue
# DS-127-025-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	25.400 <i>1.000</i>	48.9	195.7	Blue
# DS-127-032-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	31.750 <i>1.250</i>	36.5	182.4	Blue

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Page 4 of 10

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Part Number	Hole Diameter (A) mm	Rod Diameter (B) mm	Length (L) mm	Load at 2.5mm Deflection N	Load at 50 % Deflection N	Colour
	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# DS-127-038-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	38.100 <i>1.500</i>	30.2	181.5	Blue
# DS-127-044-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	44.450 <i>1.750</i>	26.7	186.8	Blue
# DS-127-051-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	50.800 <i>2.000</i>	24.5	195.7	Blue
# DS-127-064-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	63.500 <i>2.500</i>	20	200.2	Blue
# DS-127-076-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	76.200 <i>3.000</i>	15.6	186.8	Blue
# DS-127-089-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	88.900 <i>3.500</i>	13.3	186.8	Blue
# DS-127-305-MD	12.700 <i>0.500</i>	7.144 <i>0.281</i>	304.800 <i>12.000</i>	3.1	149.5	Blue
# DS-159-025-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	25.400 <i>1.000</i>	73	291.8	Blue
# DS-159-032-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	31.750 <i>1.250</i>	56.9	284.7	Blue
# DS-159-038-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	38.100 <i>1.500</i>	48	288.2	Blue

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Page 5 of 10

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# DS-159-044-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	44.450 <i>1.750</i>	42.7	298.9	Blue
# DS-159-051-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	50.800 <i>2.000</i>	39.1	313.2	Blue
# DS-159-064-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	63.500 <i>2.500</i>	26.7	266.9	Blue
# DS-159-076-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	76.200 <i>3.000</i>	24.9	298.9	Blue
# DS-159-102-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	101.600 <i>4.000</i>	19.6	313.2	Blue
# DS-159-305-MD	15.875 <i>0.625</i>	8.731 <i>0.344</i>	304.800 <i>12.000</i>	7.1	341.6	Blue
# DS-191-025-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	25.400 <i>1.000</i>	138.8	555.1	Blue
# DS-191-032-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	31.750 <i>1.250</i>	113.9	569.4	Blue
# DS-191-038-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	38.100 <i>1.500</i>	89	533.8	Blue
# DS-191-044-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	44.450 <i>1.750</i>	78.3	548.0	Blue

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Page 6 of 10

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	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# DS-191-051-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	50.800 <i>2.000</i>	64.1	512.4	Blue
# DS-191-064-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	63.500 <i>2.500</i>	53.4	533.8	Blue
# DS-191-076-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	76.200 <i>3.000</i>	42.7	512.4	Blue
# DS-191-089-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	88.900 <i>3.500</i>	35.6	498.2	Blue
# DS-191-102-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	101.600 <i>4.000</i>	32	512.4	Blue
# DS-191-114-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	114.300 <i>4.500</i>	28.5	512.4	Blue
# DS-191-127-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	127.000 <i>5.000</i>	26.7	533.8	Blue
# DS-191-305-MD	19.050 <i>0.750</i>	9.525 <i>0.375</i>	304.800 <i>12.000</i>	10.7	512.4	Blue
# DS-254-025-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	25.400 <i>1.000</i>	244.7	978.6	Blue
# DS-254-032-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	31.750 <i>1.250</i>	200.2	1000.8	Blue

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Page 7 of 10

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# DS-254-038-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	38.100 <i>1.500</i>	155.7	934.1	Blue
# DS-254-044-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	44.450 <i>1.750</i>	133.4	934.1	Blue
# DS-254-051-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	50.800 <i>2.000</i>	115.7	925.2	Blue
# DS-254-064-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	63.500 <i>2.500</i>	89	889.6	Blue
# DS-254-076-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	76.200 <i>3.000</i>	73.4	880.7	Blue
# DS-254-089-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	88.900 <i>3.500</i>	66.7	934.1	Blue
# DS-254-102-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	101.600 <i>4.000</i>	53.4	854.1	Blue
# DS-254-127-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	127.000 <i>5.000</i>	42.7	854.1	Blue
# DS-254-152-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	152.400 <i>6.000</i>	35.6	854.1	Blue
# DS-254-203-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	203.200 <i>8.000</i>	26.7	854.1	Blue

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Page 8 of 10

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	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# DS-254-305-MD	25.400 <i>1.000</i>	12.700 <i>0.500</i>	304.800 <i>12.000</i>	17.8	854.1	Blue
# DS-318-038-MD	31.750 <i>1.250</i>	15.875 <i>0.625</i>	38.100 <i>1.500</i>	220.6	1323.8	Blue
# DS-318-051-MD	31.750 <i>1.250</i>	15.875 <i>0.625</i>	50.800 <i>2.000</i>	156.6	1252.6	Blue
# DS-318-064-MD	31.750 <i>1.250</i>	15.875 <i>0.625</i>	63.500 <i>2.500</i>	128.1	1281.1	Blue
# DS-318-076-MD	31.750 <i>1.250</i>	15.875 <i>0.625</i>	76.200 <i>3.000</i>	106.8	1281.1	Blue
# DS-318-089-MD	31.750 <i>1.250</i>	15.875 <i>0.625</i>	88.900 <i>3.500</i>	89	1245.5	Blue
# DS-318-127-MD	31.750 <i>1.250</i>	15.875 <i>0.625</i>	127.000 <i>5.000</i>	60.5	1209.9	Blue
# DS-381-051-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	50.800 <i>2.000</i>	235.8	1886.0	Blue
# DS-381-064-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	63.500 <i>2.500</i>	200.2	2001.7	Blue
# DS-381-076-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	76.200 <i>3.000</i>	160.1	1921.6	Blue

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Page 9 of 10

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	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# DS-381-089-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	88.900 <i>3.500</i>	133.4	1868.3	Blue
# DS-381-102-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	101.600 <i>4.000</i>	120.1	1921.6	Blue
# DS-381-127-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	127.000 <i>5.000</i>	93.4	1868.3	Blue
# DS-381-152-MD	38.100 <i>1.500</i>	19.050 <i>0.750</i>	152.400 <i>6.000</i>	75.6	1814.9	Blue
# DS-508-064-MD	50.800 <i>2.000</i>	25.400 <i>1.000</i>	63.500 <i>2.500</i>	444.8	4448.2	Blue
# DS-508-127-MD	50.800 <i>2.000</i>	25.400 <i>1.000</i>	127.000 <i>5.000</i>	209.1	4181.3	Blue

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Page 10 of 10

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