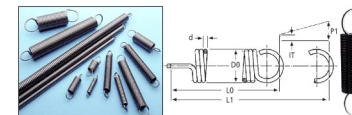




MBA

Springs - Extension



Zinc Plated Spring Steel not recommended for applications exceeding 121 Deg C (250 Deg F).

302 Stainless springs not recommended for applications exceeding 260 Deg C (500 Deg F).

302 stainless steel is slightly magnetic.

Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|---------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| ES0160-00635-0020-2 | 1.60 | 6.35 | 0.20 | 0.37 | | 11.684 | 0.30 | 302 Stainless Steel | | |
| | <i>0.063</i> | <i>0.250</i> | <i>0.008</i> | | | <i>0.460</i> | | | | |
| ES0160-00965-0020-2 | 1.60 | 9.65 | 0.20 | 0.37 | | 19.050 | 0.16 | 302 Stainless Steel | | |
| | <i>0.063</i> | <i>0.380</i> | <i>0.008</i> | | | <i>0.750</i> | | | | |
| ES0160-01270-0020-2 | 1.60 | 12.70 | 0.20 | 0.37 | | 26.670 | 0.11 | 302 Stainless Steel | | |
| | <i>0.063</i> | <i>0.500</i> | <i>0.008</i> | | | <i>1.050</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0239-00965-0025-2 | 2.39 | 9.65 | 0.25 | 0.50 | | 21.336 | 0.18 | 302 Stainless Steel | | |
| | <i>0.094</i> | <i>0.380</i> | <i>0.010</i> | | | <i>0.840</i> | | | | |
| ES0239-00965-0033-2 | 2.39 | 9.65 | 0.33 | 0.96 | | 15.240 | 0.67 | 302 Stainless Steel | | |
| | <i>0.094</i> | <i>0.380</i> | <i>0.013</i> | | | <i>0.600</i> | | | | |
| ES0239-01118-0031-2 | 2.39 | 11.18 | 0.31 | 0.83 | | 20.828 | 0.35 | 302 Stainless Steel | | |
| | <i>0.094</i> | <i>0.440</i> | <i>0.012</i> | | | <i>0.820</i> | | | | |
| # ES0239-01118-0033-2 | 2.39 | 11.18 | 0.33 | 0.96 | | 18.542 | 0.53 | 302 Stainless Steel | | |
| | <i>0.094</i> | <i>0.440</i> | <i>0.013</i> | | | <i>0.730</i> | | | | |
| # ES0239-01270-0031-2 | 2.39 | 12.70 | 0.31 | 0.83 | | 24.130 | 0.30 | 302 Stainless Steel | | |
| | <i>0.094</i> | <i>0.500</i> | <i>0.012</i> | | | <i>0.950</i> | | | | |
| ES0239-01905-0025-2 | 2.39 | 19.05 | 0.25 | 0.50 | | 50.800 | 0.05 | 302 Stainless Steel | | |
| | <i>0.094</i> | <i>0.750</i> | <i>0.010</i> | | | <i>2.000</i> | | | | |
| # ES0250-00790-0050-2 | 2.50 | 7.90 | 0.50 | | | 9.61 | 6.65 | 302 Stainless Steel | 2.05 | 13.42 |
| | <i>0.098</i> | <i>0.311</i> | <i>0.020</i> | | | <i>0.378</i> | | | | |
| # ES0250-00950-0025-2 | 2.50 | 9.50 | 0.25 | 2.04 | | 13.490 | 0.14 | 302 Stainless Steel | | |
| | <i>0.098</i> | <i>0.374</i> | <i>0.010</i> | | | <i>0.531</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0250-01090-0050-2 | 2.50 | 10.90 | 0.50 | | | 13.64 | 4.15 | 302 Stainless Steel | 2.05 | 13.42 |
| | <i>0.098</i> | <i>0.429</i> | <i>0.020</i> | | | <i>0.537</i> | | | | |
| # ES0250-01250-0025-2 | 2.50 | 12.50 | 0.25 | 2.04 | | 21.240 | 0.089 | 302 Stainless Steel | | |
| | <i>0.098</i> | <i>0.492</i> | <i>0.010</i> | | | <i>0.836</i> | | | | |
| # ES0250-01540-0050-2 | 2.50 | 15.40 | 0.50 | | | 19.68 | 2.66 | 302 Stainless Steel | 2.05 | 13.42 |
| | <i>0.098</i> | <i>0.606</i> | <i>0.020</i> | | | <i>0.775</i> | | | | |
| # ES0250-01550-0025-2 | 2.50 | 15.50 | 0.25 | 2.04 | | 28.790 | 0.066 | 302 Stainless Steel | | |
| | <i>0.098</i> | <i>0.610</i> | <i>0.010</i> | | | <i>1.133</i> | | | | |
| # ES0280-00880-0055-2 | 2.80 | 8.80 | 0.55 | | | 10.78 | 6.82 | 302 Stainless Steel | 2.33 | 15.83 |
| | <i>0.110</i> | <i>0.346</i> | <i>0.022</i> | | | <i>0.424</i> | | | | |
| # ES0280-01210-0055-2 | 2.80 | 12.10 | 0.55 | | | 15.27 | 4.26 | 302 Stainless Steel | 2.33 | 15.83 |
| | <i>0.110</i> | <i>0.476</i> | <i>0.022</i> | | | <i>0.601</i> | | | | |
| # ES0280-01700-0055-2 | 2.80 | 17.00 | 0.55 | | | 21.96 | 2.72 | 302 Stainless Steel | 2.33 | 15.83 |
| | <i>0.110</i> | <i>0.669</i> | <i>0.022</i> | | | <i>0.865</i> | | | | |
| # ES0300-00970-0063-2 | 3.00 | 9.70 | 0.63 | | | 11.55 | 10.08 | 302 Stainless Steel | 3.49 | 21.83 |
| | <i>0.118</i> | <i>0.382</i> | <i>0.025</i> | | | <i>0.455</i> | | | | |

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| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| ES0300-01350-0063-2 | 3.00 | 13.50 | 0.63 | | | 16.46 | 6.26 | 302 Stainless Steel | 3.49 | 21.83 |
| | <i>0.118</i> | <i>0.531</i> | <i>0.025</i> | | | <i>0.648</i> | | | | |
| # ES0300-01700-0035-2 | 3.00 | 17.00 | 0.35 | 4.08 | | 18.040 | 0.202 | 302 Stainless Steel | | |
| | <i>0.118</i> | <i>0.669</i> | <i>0.014</i> | | | <i>0.710</i> | | | | |
| ES0300-01920-0063-2 | 3.00 | 19.20 | 0.63 | | | 23.82 | 4.01 | 302 Stainless Steel | 3.49 | 21.83 |
| | <i>0.118</i> | <i>0.756</i> | <i>0.025</i> | | | <i>0.938</i> | | | | |
| # ES0300-02100-0035-2 | 3.00 | 21.00 | 0.35 | 4.08 | | 23.930 | 0.152 | 302 Stainless Steel | | |
| | <i>0.118</i> | <i>0.827</i> | <i>0.014</i> | | | <i>0.942</i> | | | | |
| # ES0300-02500-0035-2 | 3.00 | 25.00 | 0.35 | 4.08 | | 29.990 | 0.121 | 302 Stainless Steel | | |
| | <i>0.118</i> | <i>0.984</i> | <i>0.014</i> | | | <i>1.181</i> | | | | |
| # ES0300-03000-0035-2 | 3.00 | 30.00 | 0.35 | 4.08 | | 37.150 | 0.097 | 302 Stainless Steel | | |
| | <i>0.118</i> | <i>1.181</i> | <i>0.014</i> | | | <i>1.463</i> | | | | |
| # ES0300-03500-0035-2 | 3.00 | 35.00 | 0.35 | 4.08 | | 45.260 | 0.08 | 302 Stainless Steel | | |
| | <i>0.118</i> | <i>1.378</i> | <i>0.014</i> | | | <i>1.782</i> | | | | |
| # ES0305-01270-0051-2 | 3.05 | 12.70 | 0.51 | 2.50 | | 17.272 | 2.21 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>0.500</i> | <i>0.020</i> | | | <i>0.680</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0305-01905-0041-2 | 3.05 | 19.05 | 0.41 | 1.33 | | 34.036 | 0.37 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>0.750</i> | <i>0.016</i> | | | <i>1.340</i> | | | | |
| # ES0305-01905-0051-2 | 3.05 | 19.05 | 0.51 | 2.50 | | 27.432 | 1.21 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>0.750</i> | <i>0.020</i> | | | <i>1.080</i> | | | | |
| # ES0305-01905-0056-2 | 3.05 | 19.05 | 0.56 | 2.17 | | 33.274 | 0.65 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>0.750</i> | <i>0.022</i> | | | <i>1.310</i> | | | | |
| # ES0305-02235-0046-2 | 3.05 | 22.35 | 0.46 | 1.83 | | 36.068 | 0.56 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>0.880</i> | <i>0.018</i> | | | <i>1.420</i> | | | | |
| # ES0305-02235-0056-2 | 3.05 | 22.35 | 0.56 | 2.17 | | 40.894 | 0.49 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>0.880</i> | <i>0.022</i> | | | <i>1.610</i> | | | | |
| # ES0305-02540-0046-2 | 3.05 | 25.40 | 0.46 | 1.83 | | 40.640 | 0.47 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>1.000</i> | <i>0.018</i> | | | <i>1.600</i> | | | | |
| # ES0305-03175-0041-2 | 3.05 | 31.75 | 0.41 | 1.33 | | 58.674 | 0.19 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>1.250</i> | <i>0.016</i> | | | <i>2.310</i> | | | | |
| # ES0305-03175-0051-2 | 3.05 | 31.75 | 0.51 | 2.50 | | 46.736 | 0.65 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>1.250</i> | <i>0.020</i> | | | <i>1.840</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0305-03175-0056-2 | 3.05 | 31.75 | 0.56 | 2.17 | | 61.722 | 0.30 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>1.250</i> | <i>0.022</i> | | | <i>2.430</i> | | | | |
| # ES0305-03480-0041-2 | 3.05 | 34.80 | 0.41 | 1.33 | | 65.278 | 0.16 | 302 Stainless Steel | | |
| | <i>0.120</i> | <i>1.370</i> | <i>0.016</i> | | | <i>2.570</i> | | | | |
| ES0318-03810-0046-Z | 3.18 | 38.10 | 0.46 | 10.85 | | | | Zinc Plated Spring Steel | | |
| | <i>0.125</i> | <i>1.500</i> | <i>0.018</i> | | | | | | | |
| ES0318-04763-0046-Z | 3.18 | 47.63 | 0.46 | 10.85 | | | | Zinc Plated Spring Steel | | |
| | <i>0.125</i> | <i>1.875</i> | <i>0.018</i> | | | | | | | |
| ES0318-06350-0036-Z | 3.18 | 63.50 | 0.36 | 5.29 | | | | Zinc Plated Spring Steel | | |
| | <i>0.125</i> | <i>2.500</i> | <i>0.014</i> | | | | | | | |
| # ES0350-00950-0050-2 | 3.50 | 9.50 | 0.50 | | | 13.82 | 1.96 | 302 Stainless Steel | 1.47 | 10.00 |
| | <i>0.138</i> | <i>0.374</i> | <i>0.020</i> | | | <i>0.544</i> | | | | |
| # ES0350-00990-0055-2 | 3.50 | 9.90 | 0.55 | | | 13.58 | 3.02 | 302 Stainless Steel | 1.98 | 13.08 |
| | <i>0.138</i> | <i>0.390</i> | <i>0.022</i> | | | <i>0.535</i> | | | | |
| ES0350-01110-0070-2 | 3.50 | 11.10 | 0.70 | | | 13.46 | 9.25 | 302 Stainless Steel | 3.72 | 25.58 |
| | <i>0.138</i> | <i>0.437</i> | <i>0.028</i> | | | <i>0.530</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0350-01250-0050-2 | 3.50 | 12.50 | 0.50 | | | 19.41 | 1.22 | 302 Stainless Steel | 1.47 | 10.00 |
| | <i>0.138</i> | <i>0.492</i> | <i>0.020</i> | | | <i>0.764</i> | | | | |
| # ES0350-01320-0055-2 | 3.50 | 13.20 | 0.55 | | | 19.09 | 1.89 | 302 Stainless Steel | 1.98 | 13.08 |
| | <i>0.138</i> | <i>0.520</i> | <i>0.022</i> | | | <i>0.752</i> | | | | |
| # ES0350-01530-0070-2 | 3.50 | 15.30 | 0.70 | | | 19.08 | 5.79 | 302 Stainless Steel | 3.72 | 25.58 |
| | <i>0.138</i> | <i>0.602</i> | <i>0.028</i> | | | <i>0.751</i> | | | | |
| ES0350-01700-0050-2 | 3.50 | 17.00 | 0.50 | | | 27.80 | 0.78 | 302 Stainless Steel | 1.47 | 10.00 |
| | <i>0.138</i> | <i>0.669</i> | <i>0.020</i> | | | <i>1.094</i> | | | | |
| # ES0350-01810-0055-2 | 3.50 | 18.10 | 0.55 | | | 27.30 | 1.21 | 302 Stainless Steel | 1.98 | 13.08 |
| | <i>0.138</i> | <i>0.713</i> | <i>0.022</i> | | | <i>1.075</i> | | | | |
| # ES0350-02160-0070-2 | 3.50 | 21.60 | 0.70 | | | 27.50 | 3.70 | 302 Stainless Steel | 3.72 | 25.58 |
| | <i>0.138</i> | <i>0.850</i> | <i>0.028</i> | | | <i>1.083</i> | | | | |
| ES0350-02450-0050-2 | 3.50 | 24.50 | 0.50 | | | 41.80 | 0.49 | 302 Stainless Steel | 1.47 | 10.00 |
| | <i>0.138</i> | <i>0.965</i> | <i>0.020</i> | | | <i>1.646</i> | | | | |
| # ES0350-02640-0055-2 | 3.50 | 26.40 | 0.55 | | | 41.10 | 0.75 | 302 Stainless Steel | 1.98 | 13.08 |
| | <i>0.138</i> | <i>1.039</i> | <i>0.022</i> | | | <i>1.618</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0350-02900-0050-2 | 3.50 | 29.00 | 0.50 | | | 50.00 | 0.04 | 302 Stainless Steel | 1.47 | 10.00 |
| | <i>0.138</i> | <i>1.142</i> | <i>0.020</i> | | | <i>1.969</i> | | | | |
| ES0396-06350-0051-Z | 3.96 | 63.50 | 0.51 | 11.97 | | | | Zinc Plated Spring Steel | | |
| | <i>0.156</i> | <i>2.500</i> | <i>0.020</i> | | | | | | | |
| # ES0400-01260-0080-2 | 4.00 | 12.60 | 0.80 | | | 15.26 | 10.58 | 302 Stainless Steel | 4.96 | 33.25 |
| | <i>0.157</i> | <i>0.496</i> | <i>0.031</i> | | | <i>0.601</i> | | | | |
| # ES0400-01740-0080-2 | 4.00 | 17.40 | 0.80 | | | 21.66 | 6.67 | 302 Stainless Steel | 4.96 | 33.25 |
| | <i>0.157</i> | <i>0.685</i> | <i>0.031</i> | | | <i>0.853</i> | | | | |
| # ES0400-02460-0080-2 | 4.00 | 24.60 | 0.80 | | | 31.26 | 4.25 | 302 Stainless Steel | 4.96 | 33.25 |
| | <i>0.157</i> | <i>0.969</i> | <i>0.031</i> | | | <i>1.231</i> | | | | |
| ES0450-01210-0063-2 | 4.50 | 12.10 | 0.63 | | | 17.75 | 2.31 | 302 Stainless Steel | 2.18 | 15.25 |
| | <i>0.177</i> | <i>0.476</i> | <i>0.025</i> | | | <i>0.699</i> | | | | |
| # ES0450-01420-0090-2 | 4.50 | 14.20 | 0.90 | | | 17.15 | 11.92 | 302 Stainless Steel | 6.20 | 41.42 |
| | <i>0.177</i> | <i>0.559</i> | <i>0.035</i> | | | <i>0.675</i> | | | | |
| # ES0450-01590-0063-2 | 4.50 | 15.90 | 0.63 | | | 24.94 | 1.44 | 302 Stainless Steel | 2.18 | 15.25 |
| | <i>0.177</i> | <i>0.626</i> | <i>0.025</i> | | | <i>0.982</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| ES0450-01700-0045-2 | 4.50 | 17.00 | 0.45 | 5.71 | | 20.320 | 0.255 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>0.669</i> | <i>0.018</i> | | | <i>0.800</i> | | | | |
| # ES0450-01700-0060-2 | 4.50 | 17.00 | 0.60 | 13.08 | | 10.000 | 1.153 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>0.669</i> | <i>0.024</i> | | | <i>0.394</i> | | | | |
| # ES0450-01960-0090-2 | 4.50 | 19.60 | 0.90 | | | 24.32 | 7.47 | 302 Stainless Steel | 6.20 | 41.42 |
| | <i>0.177</i> | <i>0.772</i> | <i>0.035</i> | | | <i>0.957</i> | | | | |
| # ES0450-02100-0045-2 | 4.50 | 21.00 | 0.45 | 5.71 | | 28.910 | 0.179 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>0.827</i> | <i>0.018</i> | | | <i>1.138</i> | | | | |
| # ES0450-02100-0060-2 | 4.50 | 21.00 | 0.60 | 13.08 | | 14.080 | 0.818 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>0.827</i> | <i>0.024</i> | | | <i>0.554</i> | | | | |
| # ES0450-02160-0063-2 | 4.50 | 21.60 | 0.63 | | | 35.70 | 0.92 | 302 Stainless Steel | 2.18 | 15.25 |
| | <i>0.177</i> | <i>0.850</i> | <i>0.025</i> | | | <i>1.406</i> | | | | |
| # ES0450-02500-0045-2 | 4.50 | 25.00 | 0.45 | 5.71 | | 37.430 | 0.138 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>0.984</i> | <i>0.018</i> | | | <i>1.474</i> | | | | |
| # ES0450-02500-0060-2 | 4.50 | 25.00 | 0.60 | 13.08 | | 18.160 | 0.635 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>0.984</i> | <i>0.024</i> | | | <i>0.715</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0450-02770-0090-2 | 4.50 | 27.70 | 0.90 | | | 35.08 | 4.77 | 302 Stainless Steel | 6.20 | 41.42 |
| | <i>0.177</i> | <i>1.091</i> | <i>0.035</i> | | | <i>1.381</i> | | | | |
| # ES0450-03000-0045-2 | 4.50 | 30.00 | 0.45 | 5.71 | | 48.710 | 0.107 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>1.181</i> | <i>0.018</i> | | | <i>1.918</i> | | | | |
| # ES0450-03000-0060-2 | 4.50 | 30.00 | 0.60 | 13.08 | | 23.300 | 0.495 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>1.181</i> | <i>0.024</i> | | | <i>0.917</i> | | | | |
| # ES0450-03100-0063-2 | 4.50 | 31.00 | 0.63 | | | 53.60 | 0.58 | 302 Stainless Steel | 2.18 | 15.25 |
| | <i>0.177</i> | <i>1.220</i> | <i>0.025</i> | | | <i>2.110</i> | | | | |
| # ES0450-03500-0045-2 | 4.50 | 35.00 | 0.45 | 5.71 | | 59.270 | 0.087 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>1.378</i> | <i>0.018</i> | | | <i>2.333</i> | | | | |
| # ES0450-03500-0060-2 | 4.50 | 35.00 | 0.60 | 13.08 | | 28.420 | 0.406 | 302 Stainless Steel | | |
| | <i>0.177</i> | <i>1.378</i> | <i>0.024</i> | | | <i>1.119</i> | | | | |
| # ES0457-01575-0079-2 | 4.57 | 15.75 | 0.79 | 5.66 | | 20.066 | 5.52 | 302 Stainless Steel | | |
| | <i>0.180</i> | <i>0.620</i> | <i>0.031</i> | | | <i>0.790</i> | | | | |
| # ES0457-01575-0086-2 | 4.57 | 15.75 | 0.86 | 7.47 | | 19.050 | 9.03 | 302 Stainless Steel | | |
| | <i>0.180</i> | <i>0.620</i> | <i>0.034</i> | | | <i>0.750</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0457-01905-0066-2 | 4.57 | 19.05 | 0.66 | 3.50 | | 28.448 | 1.54 | 302 Stainless Steel | | |
| | <i>0.180</i> | <i>0.750</i> | <i>0.026</i> | | | <i>1.120</i> | | | | |
| # ES0457-01905-0079-2 | 4.57 | 19.05 | 0.79 | 5.66 | | 24.892 | 3.96 | 302 Stainless Steel | | |
| | <i>0.180</i> | <i>0.750</i> | <i>0.031</i> | | | <i>0.980</i> | | | | |
| # ES0457-03175-0066-2 | 4.57 | 31.75 | 0.66 | 3.50 | | 51.054 | 0.74 | 302 Stainless Steel | | |
| | <i>0.180</i> | <i>1.250</i> | <i>0.026</i> | | | <i>2.010</i> | | | | |
| # ES0457-03175-0079-2 | 4.57 | 31.75 | 0.79 | 5.66 | | 43.688 | 1.91 | 302 Stainless Steel | | |
| | <i>0.180</i> | <i>1.250</i> | <i>0.031</i> | | | <i>1.720</i> | | | | |
| ES0478-03810-0046-Z | 4.78 | 38.10 | 0.46 | 7.47 | | | | Zinc Plated Spring Steel | | |
| | <i>0.188</i> | <i>1.500</i> | <i>0.018</i> | | | | | | | |
| ES0478-04763-0051-Z | 4.78 | 47.63 | 0.51 | 10.10 | | | | Zinc Plated Spring Steel | | |
| | <i>0.188</i> | <i>1.875</i> | <i>0.020</i> | | | | | | | |
| # ES0500-01350-0070-2 | 5.00 | 13.50 | 0.70 | | | 19.75 | 2.56 | 302 Stainless Steel | 2.83 | 18.83 |
| | <i>0.197</i> | <i>0.531</i> | <i>0.028</i> | | | <i>0.778</i> | | | | |
| # ES0500-01580-0100-2 | 5.00 | 15.80 | 1.00 | | | 19.05 | 13.25 | 302 Stainless Steel | 6.27 | 50.66 |
| | <i>0.197</i> | <i>0.622</i> | <i>0.039</i> | | | <i>0.750</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| ES0500-01770-0070-2 | 5.00 | 17.70 | 0.70 | | | 27.70 | 1.60 | 302 Stainless Steel | 2.83 | 18.83 |
| | <i>0.197</i> | <i>0.697</i> | <i>0.028</i> | | | <i>1.091</i> | | | | |
| ES0500-02180-0100-2 | 5.00 | 21.80 | 1.00 | | | 27.00 | 8.25 | 302 Stainless Steel | 6.27 | 50.66 |
| | <i>0.197</i> | <i>0.858</i> | <i>0.039</i> | | | <i>1.063</i> | | | | |
| # ES0500-02400-0070-2 | 5.00 | 24.00 | 0.70 | | | 39.60 | 1.02 | 302 Stainless Steel | 2.83 | 18.83 |
| | <i>0.197</i> | <i>0.945</i> | <i>0.028</i> | | | <i>1.559</i> | | | | |
| # ES0500-03080-0100-2 | 5.00 | 30.80 | 1.00 | | | 38.90 | 5.30 | 302 Stainless Steel | 6.27 | 50.66 |
| | <i>0.197</i> | <i>1.213</i> | <i>0.039</i> | | | <i>1.531</i> | | | | |
| # ES0500-03450-0070-2 | 5.00 | 34.50 | 0.70 | | | 59.50 | 0.64 | 302 Stainless Steel | 2.83 | 18.83 |
| | <i>0.197</i> | <i>1.358</i> | <i>0.028</i> | | | <i>2.343</i> | | | | |
| # ES0550-01270-0050-2 | 5.50 | 12.70 | 0.50 | | | 25.80 | 0.42 | 302 Stainless Steel | 2.09 | 6.50 |
| | <i>0.217</i> | <i>0.500</i> | <i>0.020</i> | | | <i>1.016</i> | | | | |
| # ES0550-01500-0080-2 | 5.50 | 15.00 | 0.80 | | | 21.40 | 3.33 | 302 Stainless Steel | 3.99 | 25.17 |
| | <i>0.217</i> | <i>0.591</i> | <i>0.031</i> | | | <i>0.843</i> | | | | |
| # ES0550-01570-0050-2 | 5.50 | 15.70 | 0.50 | | | 36.60 | 0.26 | 302 Stainless Steel | 2.09 | 6.50 |
| | <i>0.217</i> | <i>0.618</i> | <i>0.020</i> | | | <i>1.441</i> | | | | |

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| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| ES0550-01980-0080-2 | 5.50 | 19.80 | 0.80 | | | 30.00 | 2.08 | 302 Stainless Steel | 3.99 | 25.17 |
| | <i>0.217</i> | <i>0.780</i> | <i>0.031</i> | | | <i>1.181</i> | | | | |
| ES0550-02020-0050-2 | 5.50 | 20.20 | 0.50 | | | 52.90 | 0.17 | 302 Stainless Steel | 2.09 | 6.50 |
| | <i>0.217</i> | <i>0.795</i> | <i>0.020</i> | | | <i>2.083</i> | | | | |
| # ES0550-02700-0080-2 | 5.50 | 27.00 | 0.80 | | | 43.00 | 1.33 | 302 Stainless Steel | 3.99 | 25.17 |
| | <i>0.217</i> | <i>1.063</i> | <i>0.031</i> | | | <i>1.693</i> | | | | |
| # ES0550-02770-0050-2 | 5.50 | 27.70 | 0.50 | | | 80.00 | 0.26 | 302 Stainless Steel | 2.09 | 6.50 |
| | <i>0.217</i> | <i>1.091</i> | <i>0.020</i> | | | <i>3.150</i> | | | | |
| # ES0550-03770-0050-2 | 5.50 | 37.70 | 0.50 | | | 116.10 | 0.07 | 302 Stainless Steel | 2.09 | 6.50 |
| | <i>0.217</i> | <i>1.484</i> | <i>0.020</i> | | | <i>4.571</i> | | | | |
| # ES0550-03900-0080-2 | 5.50 | 39.00 | 0.80 | | | 64.60 | 0.83 | 302 Stainless Steel | 3.99 | 25.17 |
| | <i>0.217</i> | <i>1.535</i> | <i>0.031</i> | | | <i>2.543</i> | | | | |
| # ES0550-29000-0080-2 | 5.50 | 290.00 | 0.80 | | | 515.00 | 0.09 | 302 Stainless Steel | 3.99 | 25.17 |
| | <i>0.217</i> | <i>11.417</i> | <i>0.031</i> | | | <i>20.276</i> | | | | |
| ES0556-06350-0058-Z | 5.56 | 63.50 | 0.58 | 13.35 | | | | Zinc Plated Spring Steel | | |
| | <i>0.219</i> | <i>2.500</i> | <i>0.023</i> | | | | | | | |

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| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0600-01390-0055-2 | 6.00 | 13.90 | 0.55 | | | 28.00 | 0.48 | 302 Stainless Steel | 0.91 | 7.92 |
| | <i>0.236</i> | <i>0.547</i> | <i>0.022</i> | | | <i>1.102</i> | | | | |
| # ES0600-01720-0055-2 | 6.00 | 17.20 | 0.55 | | | 39.70 | 0.30 | 302 Stainless Steel | 0.91 | 7.92 |
| | <i>0.236</i> | <i>0.677</i> | <i>0.022</i> | | | <i>1.563</i> | | | | |
| # ES0600-02210-0055-2 | 6.00 | 22.10 | 0.55 | | | 57.20 | 0.19 | 302 Stainless Steel | 0.91 | 7.92 |
| | <i>0.236</i> | <i>0.870</i> | <i>0.022</i> | | | <i>2.252</i> | | | | |
| # ES0600-03040-0055-2 | 6.00 | 30.40 | 0.55 | | | 86.60 | 0.12 | 302 Stainless Steel | 0.91 | 7.92 |
| | <i>0.236</i> | <i>1.197</i> | <i>0.022</i> | | | <i>3.409</i> | | | | |
| # ES0600-04140-0055-2 | 6.00 | 41.40 | 0.55 | | | 125.70 | 0.09 | 302 Stainless Steel | 0.91 | 7.92 |
| | <i>0.236</i> | <i>1.630</i> | <i>0.022</i> | | | <i>4.949</i> | | | | |
| # ES0610-01905-0066-2 | 6.10 | 19.05 | 0.66 | 2.75 | | 32.766 | 0.82 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>0.750</i> | <i>0.026</i> | | | <i>1.290</i> | | | | |
| # ES0610-01905-0074-2 | 6.10 | 19.05 | 0.74 | 3.75 | | 29.718 | 1.44 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>0.750</i> | <i>0.029</i> | | | <i>1.170</i> | | | | |
| # ES0610-01905-0079-2 | 6.10 | 19.05 | 0.79 | 4.41 | | 28.194 | 2.02 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>0.750</i> | <i>0.031</i> | | | <i>1.110</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0610-01905-0086-2 | 6.10 | 19.05 | 0.86 | 5.83 | | 26.416 | 3.23 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>0.750</i> | <i>0.034</i> | | | <i>1.040</i> | | | | |
| # ES0610-02540-0066-2 | 6.10 | 25.40 | 0.66 | 2.75 | | 50.038 | 0.44 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.000</i> | <i>0.026</i> | | | <i>1.970</i> | | | | |
| # ES0610-02845-0066-2 | 6.10 | 28.45 | 0.66 | 2.75 | | 58.674 | 0.37 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.120</i> | <i>0.026</i> | | | <i>2.310</i> | | | | |
| # ES0610-03175-0066-2 | 6.10 | 31.75 | 0.66 | 2.75 | | 67.056 | 0.32 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.250</i> | <i>0.026</i> | | | <i>2.640</i> | | | | |
| # ES0610-03175-0074-2 | 6.10 | 31.75 | 0.74 | 3.75 | | 58.928 | 0.56 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.250</i> | <i>0.029</i> | | | <i>2.320</i> | | | | |
| # ES0610-03175-0079-2 | 6.10 | 31.75 | 0.79 | 4.41 | | 54.356 | 0.77 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.250</i> | <i>0.031</i> | | | <i>2.140</i> | | | | |
| # ES0610-03175-0086-2 | 6.10 | 31.75 | 0.86 | 5.83 | | 49.784 | 1.30 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.250</i> | <i>0.034</i> | | | <i>1.960</i> | | | | |
| # ES0610-03810-0079-2 | 6.10 | 38.10 | 0.79 | 4.41 | | 67.056 | 0.61 | 302 Stainless Steel | | |
| | <i>0.240</i> | <i>1.500</i> | <i>0.031</i> | | | <i>2.640</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0630-01710-0090-2 | 6.30 | 17.10 | 0.90 | | | 24.53 | 3.52 | 302 Stainless Steel | 4.66 | 30.92 |
| | <i>0.248</i> | <i>0.673</i> | <i>0.035</i> | | | <i>0.966</i> | | | | |
| # ES0630-01900-0055-2 | 6.30 | 19.00 | 0.55 | 7.33 | | 23.440 | 0.283 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.748</i> | <i>0.022</i> | | | <i>0.923</i> | | | | |
| # ES0630-01900-0075-2 | 6.30 | 19.00 | 0.75 | 16.33 | | 10.350 | 1.381 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.748</i> | <i>0.030</i> | | | <i>0.407</i> | | | | |
| ES0630-01900-0080-2 | 6.30 | 19.00 | 0.80 | 20.41 | | 9.190 | 1.927 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.748</i> | <i>0.031</i> | | | <i>0.362</i> | | | | |
| # ES0630-02200-0055-2 | 6.30 | 22.00 | 0.55 | 7.33 | | 32.250 | 0.206 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.866</i> | <i>0.022</i> | | | <i>1.270</i> | | | | |
| # ES0630-02200-0075-2 | 6.30 | 22.00 | 0.75 | 16.33 | | 13.950 | 1.025 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.866</i> | <i>0.030</i> | | | <i>0.549</i> | | | | |
| # ES0630-02200-0080-2 | 6.30 | 22.00 | 0.80 | 20.41 | | 12.330 | 1.437 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.866</i> | <i>0.031</i> | | | <i>0.485</i> | | | | |
| # ES0630-02250-0090-2 | 6.30 | 22.50 | 0.90 | | | 34.40 | 2.21 | 302 Stainless Steel | 4.66 | 30.92 |
| | <i>0.248</i> | <i>0.886</i> | <i>0.035</i> | | | <i>1.354</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0630-02500-0055-2 | 6.30 | 25.00 | 0.55 | 7.33 | | 40.960 | 0.162 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.984</i> | <i>0.022</i> | | | <i>1.613</i> | | | | |
| # ES0630-02500-0075-2 | 6.30 | 25.00 | 0.75 | 16.33 | | 17.540 | 0.816 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.984</i> | <i>0.030</i> | | | <i>0.691</i> | | | | |
| # ES0630-02500-0080-2 | 6.30 | 25.00 | 0.80 | 20.41 | | 15.450 | 1.147 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>0.984</i> | <i>0.031</i> | | | <i>0.608</i> | | | | |
| # ES0630-03000-0055-2 | 6.30 | 30.00 | 0.55 | 7.33 | | 55.450 | 0.12 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>1.181</i> | <i>0.022</i> | | | <i>2.183</i> | | | | |
| # ES0630-03000-0075-2 | 6.30 | 30.00 | 0.75 | 16.33 | | 23.510 | 0.608 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>1.181</i> | <i>0.030</i> | | | <i>0.926</i> | | | | |
| # ES0630-03000-0080-2 | 6.30 | 30.00 | 0.80 | 20.41 | | 20.680 | 0.856 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>1.181</i> | <i>0.031</i> | | | <i>0.814</i> | | | | |
| # ES0630-03060-0090-2 | 6.30 | 30.60 | 0.90 | | | 49.20 | 1.42 | 302 Stainless Steel | 4.66 | 30.92 |
| | <i>0.248</i> | <i>1.205</i> | <i>0.035</i> | | | <i>1.937</i> | | | | |
| # ES0630-03500-0055-2 | 6.30 | 35.00 | 0.55 | 7.33 | | 69.950 | 0.095 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>1.378</i> | <i>0.022</i> | | | <i>2.754</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0630-03500-0075-2 | 6.30 | 35.00 | 0.75 | 16.33 | | 29.530 | 0.484 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>1.378</i> | <i>0.030</i> | | | <i>1.163</i> | | | | |
| # ES0630-03500-0080-2 | 6.30 | 35.00 | 0.80 | 20.41 | | 25.890 | 0.684 | 302 Stainless Steel | | |
| | <i>0.248</i> | <i>1.378</i> | <i>0.031</i> | | | <i>1.019</i> | | | | |
| # ES0630-04410-0090-2 | 6.30 | 44.10 | 0.90 | | | 73.80 | 0.88 | 302 Stainless Steel | 4.66 | 30.92 |
| | <i>0.248</i> | <i>1.736</i> | <i>0.035</i> | | | <i>2.906</i> | | | | |
| ES0635-03810-0041-Z | 6.35 | 38.10 | 0.41 | 4.00 | | | | Zinc Plated Spring Steel | | |
| | <i>0.250</i> | <i>1.500</i> | <i>0.016</i> | | | | | | | |
| ES0635-04763-0058-Z | 6.35 | 47.63 | 0.58 | 11.74 | | | | Zinc Plated Spring Steel | | |
| | <i>0.250</i> | <i>1.875</i> | <i>0.023</i> | | | | | | | |
| ES0635-08255-0064-Z | 6.35 | 82.55 | 0.64 | 11.74 | | | | Zinc Plated Spring Steel | | |
| | <i>0.250</i> | <i>3.250</i> | <i>0.025</i> | | | | | | | |
| ES0635-12700-0086-Z | 6.35 | 127.00 | 0.86 | 26.87 | | | | Zinc Plated Spring Steel | | |
| | <i>0.250</i> | <i>5.000</i> | <i>0.034</i> | | | | | | | |
| # ES0700-01610-0063-2 | 7.00 | 16.10 | 0.63 | | | 32.70 | 0.52 | 302 Stainless Steel | 1.39 | 10.17 |
| | <i>0.276</i> | <i>0.634</i> | <i>0.025</i> | | | <i>1.287</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0700-01900-0100-2 | 7.00 | 19.00 | 1.00 | | | 27.17 | 3.92 | 302 Stainless Steel | 6.27 | 37.75 |
| | <i>0.276</i> | <i>0.748</i> | <i>0.039</i> | | | <i>1.070</i> | | | | |
| # ES0700-01990-0063-2 | 7.00 | 19.90 | 0.63 | | | 46.50 | 0.32 | 302 Stainless Steel | 1.39 | 10.17 |
| | <i>0.276</i> | <i>0.783</i> | <i>0.025</i> | | | <i>1.831</i> | | | | |
| ES0700-02500-0100-2 | 7.00 | 25.00 | 1.00 | | | 38.10 | 2.45 | 302 Stainless Steel | 6.27 | 37.75 |
| | <i>0.276</i> | <i>0.984</i> | <i>0.039</i> | | | <i>1.500</i> | | | | |
| # ES0700-02560-0063-2 | 7.00 | 25.60 | 0.63 | | | 67.20 | 0.21 | 302 Stainless Steel | 1.39 | 10.17 |
| | <i>0.276</i> | <i>1.008</i> | <i>0.025</i> | | | <i>2.646</i> | | | | |
| # ES0700-03400-0100-2 | 7.00 | 34.00 | 1.00 | | | 54.40 | 1.52 | 302 Stainless Steel | 6.27 | 37.75 |
| | <i>0.276</i> | <i>1.339</i> | <i>0.039</i> | | | <i>2.142</i> | | | | |
| ES0700-04500-0063-2 | 7.00 | 45.00 | 0.63 | | | 101.50 | 0.12 | 302 Stainless Steel | 1.39 | 10.17 |
| | <i>0.276</i> | <i>1.772</i> | <i>0.025</i> | | | <i>3.996</i> | | | | |
| # ES0700-04760-0063-2 | 7.00 | 47.60 | 0.63 | | | 147.30 | 0.09 | 302 Stainless Steel | 1.39 | 10.17 |
| | <i>0.276</i> | <i>1.874</i> | <i>0.025</i> | | | <i>5.799</i> | | | | |
| ES0714-15240-0086-Z | 7.14 | 152.40 | 0.86 | 24.11 | | | | Zinc Plated Spring Steel | | |
| | <i>0.281</i> | <i>6.000</i> | <i>0.034</i> | | | | | | | |

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| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0750-01750-0070-2 | 7.50 | 17.50 | 0.70 | | | 34.40 | 0.65 | 302 Stainless Steel | 1.81 | 12.83 |
| | <i>0.295</i> | <i>0.689</i> | <i>0.028</i> | | | <i>1.354</i> | | | | |
| # ES0750-02170-0070-2 | 7.50 | 21.70 | 0.70 | | | 48.70 | 0.41 | 302 Stainless Steel | 1.81 | 12.83 |
| | <i>0.295</i> | <i>0.854</i> | <i>0.028</i> | | | <i>1.917</i> | | | | |
| # ES0750-02800-0070-2 | 7.50 | 28.00 | 0.70 | | | 70.20 | 0.26 | 302 Stainless Steel | 1.81 | 12.83 |
| | <i>0.295</i> | <i>1.102</i> | <i>0.028</i> | | | <i>2.764</i> | | | | |
| # ES0750-03850-0070-2 | 7.50 | 38.50 | 0.70 | | | 106.00 | 0.17 | 302 Stainless Steel | 1.81 | 12.83 |
| | <i>0.295</i> | <i>1.516</i> | <i>0.028</i> | | | <i>4.173</i> | | | | |
| ES0750-05250-0070-2 | 7.50 | 52.50 | 0.70 | | | 153.50 | 0.11 | 302 Stainless Steel | 1.81 | 12.83 |
| | <i>0.295</i> | <i>2.067</i> | <i>0.028</i> | | | <i>6.043</i> | | | | |
| ES0793-12700-0079-Z | 7.93 | 127.00 | 0.79 | 16.81 | | | | Zinc Plated Spring Steel | | |
| | <i>0.312</i> | <i>5.000</i> | <i>0.031</i> | | | | | | | |
| # ES0800-02500-0075-2 | 8.00 | 25.00 | 0.75 | 13.91 | | 26.250 | 0.477 | 302 Stainless Steel | | |
| | <i>0.315</i> | <i>0.984</i> | <i>0.030</i> | | | <i>1.033</i> | | | | |
| # ES0800-03000-0075-2 | 8.00 | 30.00 | 0.75 | 13.91 | | 37.990 | 0.33 | 302 Stainless Steel | | |
| | <i>0.315</i> | <i>1.181</i> | <i>0.030</i> | | | <i>1.496</i> | | | | |

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| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| ES0800-03500-0075-2 | 8.00 | 35.00 | 0.75 | 13.91 | | 49.630 | 0.252 | 302 Stainless Steel | | |
| | <i>0.315</i> | <i>1.378</i> | <i>0.030</i> | | | <i>1.954</i> | | | | |
| # ES0800-04000-0075-2 | 8.00 | 40.00 | 0.75 | 13.91 | | 61.320 | 0.204 | 302 Stainless Steel | | |
| | <i>0.315</i> | <i>1.575</i> | <i>0.030</i> | | | <i>2.414</i> | | | | |
| # ES0900-02060-0080-2 | 9.00 | 20.60 | 0.80 | | | 42.00 | 0.63 | 302 Stainless Steel | 2.28 | 15.83 |
| | <i>0.354</i> | <i>0.811</i> | <i>0.031</i> | | | <i>1.654</i> | | | | |
| # ES0900-02540-0080-2 | 9.00 | 25.40 | 0.80 | | | 59.70 | 0.39 | 302 Stainless Steel | 2.28 | 15.83 |
| | <i>0.354</i> | <i>1.000</i> | <i>0.031</i> | | | <i>2.350</i> | | | | |
| # ES0900-03260-0080-2 | 9.00 | 32.60 | 0.80 | | | 86.10 | 0.25 | 302 Stainless Steel | 2.28 | 15.83 |
| | <i>0.354</i> | <i>1.283</i> | <i>0.031</i> | | | <i>3.390</i> | | | | |
| # ES0900-04460-0080-2 | 9.00 | 44.60 | 0.80 | | | 130.20 | 0.16 | 302 Stainless Steel | 2.28 | 15.83 |
| | <i>0.354</i> | <i>1.756</i> | <i>0.031</i> | | | <i>5.126</i> | | | | |
| # ES0900-06060-0080-2 | 9.00 | 60.60 | 0.80 | | | 188.60 | 0.11 | 302 Stainless Steel | 2.28 | 15.83 |
| | <i>0.354</i> | <i>2.386</i> | <i>0.031</i> | | | <i>7.425</i> | | | | |
| # ES0914-02540-0079-2 | 9.14 | 25.40 | 0.79 | 3.07 | | 51.308 | 0.47 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>1.000</i> | <i>0.031</i> | | | <i>2.020</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0914-02540-0094-2 | 9.14 | 25.40 | 0.94 | 4.91 | | 42.672 | 1.16 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>1.000</i> | <i>0.037</i> | | | <i>1.680</i> | | | | |
| # ES0914-03175-0114-2 | 9.14 | 31.75 | 1.14 | 8.50 | | 49.022 | 1.98 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>1.250</i> | <i>0.045</i> | | | <i>1.930</i> | | | | |
| # ES0914-03175-0140-2 | 9.14 | 31.75 | 1.40 | 14.66 | | 42.164 | 5.64 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>1.250</i> | <i>0.055</i> | | | <i>1.660</i> | | | | |
| # ES0914-03810-0079-2 | 9.14 | 38.10 | 0.79 | 3.07 | | 96.774 | 0.21 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>1.500</i> | <i>0.031</i> | | | <i>3.810</i> | | | | |
| # ES0914-03810-0094-2 | 9.14 | 38.10 | 0.94 | 4.91 | | 77.724 | 0.49 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>1.500</i> | <i>0.037</i> | | | <i>3.060</i> | | | | |
| # ES0914-05080-0114-2 | 9.14 | 50.80 | 1.14 | 8.50 | | 88.646 | 0.91 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>2.000</i> | <i>0.045</i> | | | <i>3.490</i> | | | | |
| # ES0914-05080-0140-2 | 9.14 | 50.80 | 1.40 | 14.66 | | 72.898 | 2.66 | 302 Stainless Steel | | |
| | <i>0.360</i> | <i>2.000</i> | <i>0.055</i> | | | <i>2.870</i> | | | | |
| ES0950-02500-0095-2 | 9.50 | 25.00 | 0.95 | 21.66 | | 15.780 | 1.205 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>0.984</i> | <i>0.037</i> | | | <i>0.621</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0950-02500-0120-2 | 9.50 | 25.00 | 1.20 | 44.98 | | 10.060 | 3.903 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>0.984</i> | <i>0.047</i> | | | <i>0.396</i> | | | | |
| # ES0950-02500-0150-2 | 9.50 | 25.00 | 1.50 | 81.63 | | 5.710 | 12.165 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>0.984</i> | <i>0.059</i> | | | <i>0.225</i> | | | | |
| # ES0950-03000-0095-2 | 9.50 | 30.00 | 0.95 | 21.66 | | 24.680 | 0.77 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.181</i> | <i>0.037</i> | | | <i>0.972</i> | | | | |
| # ES0950-03000-0120-2 | 9.50 | 30.00 | 1.20 | 44.98 | | 15.300 | 2.567 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.181</i> | <i>0.047</i> | | | <i>0.602</i> | | | | |
| # ES0950-03000-0150-2 | 9.50 | 30.00 | 1.50 | 81.63 | | 8.430 | 8.24 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.181</i> | <i>0.059</i> | | | <i>0.332</i> | | | | |
| # ES0950-03500-0095-2 | 9.50 | 35.00 | 0.95 | 21.66 | | 33.580 | 0.566 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.378</i> | <i>0.037</i> | | | <i>1.322</i> | | | | |
| # ES0950-03500-0120-2 | 9.50 | 35.00 | 1.20 | 44.98 | | 20.540 | 1.913 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.378</i> | <i>0.047</i> | | | <i>0.809</i> | | | | |
| # ES0950-03500-0150-2 | 9.50 | 35.00 | 1.50 | 81.63 | | 11.150 | 6.23 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.378</i> | <i>0.059</i> | | | <i>0.439</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES0950-04000-0095-2 | 9.50 | 40.00 | 0.95 | 21.66 | | 42.580 | 0.446 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.575</i> | <i>0.037</i> | | | <i>1.676</i> | | | | |
| # ES0950-04000-0120-2 | 9.50 | 40.00 | 1.20 | 44.98 | | 25.790 | 1.523 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.575</i> | <i>0.047</i> | | | <i>1.015</i> | | | | |
| # ES0950-04000-0150-2 | 9.50 | 40.00 | 1.50 | 81.63 | | 13.870 | 5.01 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.575</i> | <i>0.059</i> | | | <i>0.546</i> | | | | |
| # ES0950-04500-0150-2 | 9.50 | 45.00 | 1.50 | 81.63 | | 16.590 | 4.188 | 302 Stainless Steel | | |
| | <i>0.374</i> | <i>1.772</i> | <i>0.059</i> | | | <i>0.653</i> | | | | |
| # ES1000-02300-0090-2 | 10.00 | 23.00 | 0.90 | | | 46.10 | 0.73 | 302 Stainless Steel | 2.89 | 20.00 |
| | <i>0.394</i> | <i>0.906</i> | <i>0.035</i> | | | <i>1.815</i> | | | | |
| # ES1000-02840-0090-2 | 10.00 | 28.40 | 0.90 | | | 65.30 | 0.46 | 302 Stainless Steel | 2.89 | 20.00 |
| | <i>0.394</i> | <i>1.118</i> | <i>0.035</i> | | | <i>2.571</i> | | | | |
| # ES1000-03650-0090-2 | 10.00 | 36.50 | 0.90 | | | 94.10 | 0.29 | 302 Stainless Steel | 2.89 | 20.00 |
| | <i>0.394</i> | <i>1.437</i> | <i>0.035</i> | | | <i>3.705</i> | | | | |
| # ES1000-05000-0090-2 | 10.00 | 50.00 | 0.90 | | | 142.20 | 0.19 | 302 Stainless Steel | 2.89 | 20.00 |
| | <i>0.394</i> | <i>1.969</i> | <i>0.035</i> | | | <i>5.598</i> | | | | |

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|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES1000-06800-0090-2 | 10.00 | 68.00 | 0.90 | | | 206.00 | 0.12 | 302 Stainless Steel | 2.89 | 20.00 |
| | <i>0.394</i> | <i>2.677</i> | <i>0.035</i> | | | <i>8.110</i> | | | | |
| ES1113-05080-0158-Z | 11.13 | 50.80 | 1.58 | 80.07 | | | | Zinc Plated Spring Steel | | |
| | <i>0.438</i> | <i>2.000</i> | <i>0.062</i> | | | | | | | |
| ES1113-06350-0071-Z | 11.13 | 63.50 | 0.71 | 11.74 | | | | Zinc Plated Spring Steel | | |
| | <i>0.438</i> | <i>2.500</i> | <i>0.028</i> | | | | | | | |
| # ES1250-03000-0120-2 | 12.50 | 30.00 | 1.20 | 32.65 | | 17.030 | 1.728 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.181</i> | <i>0.047</i> | | | <i>0.670</i> | | | | |
| # ES1250-03000-0160-2 | 12.50 | 30.00 | 1.60 | 73.51 | | 8.950 | 7.116 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.181</i> | <i>0.063</i> | | | <i>0.352</i> | | | | |
| ES1250-03500-0160-2 | 12.50 | 35.00 | 1.60 | 73.51 | | 13.520 | 4.712 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.378</i> | <i>0.063</i> | | | <i>0.532</i> | | | | |
| # ES1250-04000-0120-2 | 12.50 | 40.00 | 1.20 | 32.65 | | 36.870 | 0.798 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.575</i> | <i>0.047</i> | | | <i>1.452</i> | | | | |
| # ES1250-04000-0160-2 | 12.50 | 40.00 | 1.60 | 73.51 | | 18.090 | 3.522 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.575</i> | <i>0.063</i> | | | <i>0.712</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES1250-04500-0160-2 | 12.50 | 45.00 | 1.60 | 73.51 | | 22.650 | 2.813 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.772</i> | <i>0.063</i> | | | <i>0.892</i> | | | | |
| # ES1250-05000-0120-2 | 12.50 | 50.00 | 1.20 | 32.65 | | 56.650 | 0.519 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.969</i> | <i>0.047</i> | | | <i>2.230</i> | | | | |
| # ES1250-05000-0160-2 | 12.50 | 50.00 | 1.60 | 73.51 | | 27.220 | 2.34 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>1.969</i> | <i>0.063</i> | | | <i>1.072</i> | | | | |
| # ES1250-05500-0160-2 | 12.50 | 55.00 | 1.60 | 73.51 | | 31.780 | 2.004 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>2.165</i> | <i>0.063</i> | | | <i>1.251</i> | | | | |
| # ES1250-06000-0120-2 | 12.50 | 60.00 | 1.20 | 32.65 | | 76.390 | 0.385 | 302 Stainless Steel | | |
| | <i>0.492</i> | <i>2.362</i> | <i>0.047</i> | | | <i>3.007</i> | | | | |
| # ES1270-03175-0094-2 | 12.70 | 31.75 | 0.94 | 3.67 | | 67.310 | 0.40 | 302 Stainless Steel | | |
| | <i>0.500</i> | <i>1.250</i> | <i>0.037</i> | | | <i>2.650</i> | | | | |
| # ES1270-05080-0094-2 | 12.70 | 50.80 | 0.94 | 3.67 | | 155.448 | 0.14 | 302 Stainless Steel | | |
| | <i>0.500</i> | <i>2.000</i> | <i>0.037</i> | | | <i>6.120</i> | | | | |
| ES1270-06350-0140-2 | 12.70 | 63.50 | 1.40 | 10.91 | | 122.428 | 0.74 | 302 Stainless Steel | | |
| | <i>0.500</i> | <i>2.500</i> | <i>0.055</i> | | | <i>4.820</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|---------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES1651-07620-0140-2 | 16.51 | 76.20 | 1.40 | 8.41 | | 198.882 | 0.28 | 302 Stainless Steel | | |
| | <i>0.650</i> | <i>3.000</i> | <i>0.055</i> | | | <i>7.830</i> | | | | |
| # ES1900-05000-0160-2 | 19.00 | 50.00 | 1.60 | 47.40 | | 42.080 | 1.02 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>1.969</i> | <i>0.063</i> | | | <i>1.657</i> | | | | |
| # ES1900-06000-0160-2 | 19.00 | 60.00 | 1.60 | 47.40 | | 67.150 | 0.639 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>2.362</i> | <i>0.063</i> | | | <i>2.644</i> | | | | |
| # ES1900-07000-0160-2 | 19.00 | 70.00 | 1.60 | 47.40 | | 92.200 | 0.466 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>2.756</i> | <i>0.063</i> | | | <i>3.630</i> | | | | |
| # ES1900-08000-0160-2 | 19.00 | 80.00 | 1.60 | 47.40 | | 117.180 | 0.367 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>3.150</i> | <i>0.063</i> | | | <i>4.613</i> | | | | |
| # ES1900-09000-0160-2 | 19.00 | 90.00 | 1.60 | 47.40 | | 142.090 | 0.302 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>3.543</i> | <i>0.063</i> | | | <i>5.594</i> | | | | |
| # ES1900-10000-0160-2 | 19.00 | 100.00 | 1.60 | 47.40 | | 167.120 | 0.257 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>3.937</i> | <i>0.063</i> | | | <i>6.580</i> | | | | |
| # ES1900-13000-0160-2 | 19.00 | 130.00 | 1.60 | 47.40 | | 243.080 | 0.177 | 302 Stainless Steel | | |
| | <i>0.748</i> | <i>5.118</i> | <i>0.063</i> | | | <i>9.570</i> | | | | |

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Springs - Extension

| Part Number | OD (D0) mm | Overall Length (L0) mm | Wire Diameter (d) mm | Max. Safe Working Load N | Other Info: | Max. Extension (L1) mm | Spring Rate N/mm | Material | Initial Tension (IT) N | Load at Max Extension N |
|-----------------------|---------------|------------------------|----------------------|--------------------------|-------------|------------------------|------------------|--------------------------|------------------------|-------------------------|
| | <i>inches</i> | <i>inches</i> | <i>inches</i> | | | <i>inches</i> | | | | |
| # ES1905-10160-0160-2 | 19.05 | 101.60 | 1.60 | 10.66 | | 275.336 | 0.25 | 302 Stainless Steel | | |
| | <i>0.750</i> | <i>4.000</i> | <i>0.063</i> | | | <i>10.840</i> | | | | |
| # ES2159-06350-0191-2 | 21.59 | 63.50 | 1.91 | 15.33 | | 119.634 | 1.09 | 302 Stainless Steel | | |
| | <i>0.850</i> | <i>2.500</i> | <i>0.075</i> | | | <i>4.710</i> | | | | |
| # ES2540-12700-0191-2 | 25.40 | 127.00 | 1.91 | 13.08 | | 387.604 | 0.21 | 302 Stainless Steel | | |
| | <i>1.000</i> | <i>5.000</i> | <i>0.075</i> | | | <i>15.260</i> | | | | |
| ES2540-17780-0343-Z | 25.40 | 177.80 | 3.43 | 310.93 | | | | Zinc Plated Spring Steel | | |
| | <i>1.000</i> | <i>7.000</i> | <i>0.135</i> | | | | | | | |
| ES2700-13970-0305-Z | 27.00 | 139.70 | 3.05 | 214.40 | | | | Zinc Plated Spring Steel | | |
| | <i>1.063</i> | <i>5.500</i> | <i>0.120</i> | | | | | | | |

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