



Springs - Torsion - Left Hand Wound

10/4/2018

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INFORMATION

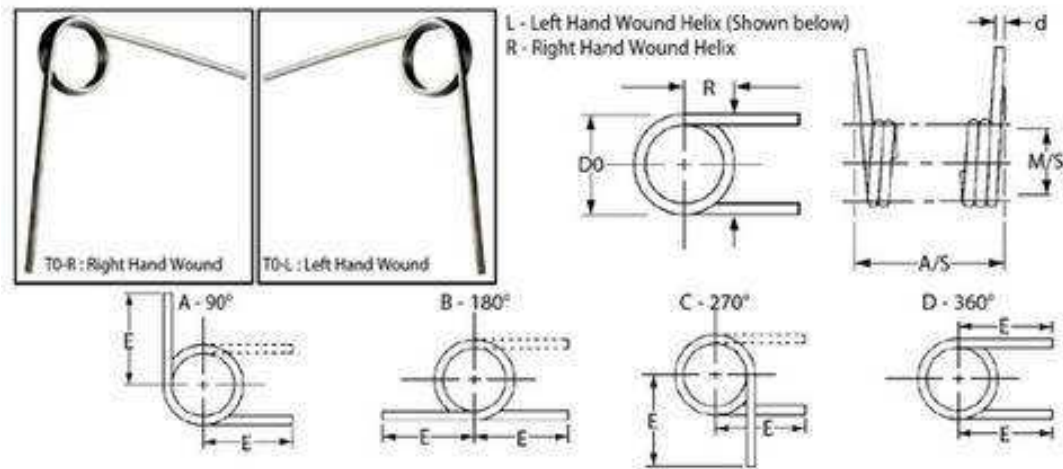
Free Deflection denotes the angle of the legs in the unloaded starting position

Load should be applied at about half the leg length

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Part Number	Mandrel Size (MS) mm	Length of Leg (E) mm	Wire Diameter mm	Spring Outside Diameter (D0) mm	Minimum Axial Space mm	Torque When Parallel N.mm	Material	Free Deflection Deg.
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-014L-095-030-090-S2	1.40 <i>0.055</i>	9.5 <i>0.374</i>	0.30 <i>0.012</i>	2.36 <i>0.093</i>	1.17 <i>0.046</i>	5.3	302 Stainless Steel	90
# TS-016L-095-030-270-S2	1.57 <i>0.062</i>	9.5 <i>0.374</i>	0.30 <i>0.012</i>	2.59 <i>0.102</i>	3.53 <i>0.139</i>	5.3	302 Stainless Steel	270
# TS-017L-095-030-180-S2	1.70 <i>0.067</i>	9.5 <i>0.374</i>	0.30 <i>0.012</i>	2.77 <i>0.109</i>	2.18 <i>0.086</i>	5.3	302 Stainless Steel	180
# TS-017L-095-031-180-S2	1.70 <i>0.067</i>	9.5 <i>0.374</i>	0.31 <i>0.012</i>	2.769 <i>0.109</i>	2.184 <i>0.086</i>	0.01	Stainless Steel	180
# TS-020L-127-038-180-S2	1.98 <i>0.078</i>	12.7 <i>0.500</i>	0.38 <i>0.015</i>	3.302 <i>0.130</i>	2.718 <i>0.107</i>	0.02	Stainless Steel	180
# TS-024L-127-043-270-S2	2.36 <i>0.093</i>	12.7 <i>0.500</i>	0.43 <i>0.017</i>	4.06 <i>0.160</i>	4.88 <i>0.192</i>	13.2	302 Stainless Steel	270
# TS-024L-127-043-090-S2	2.36 <i>0.093</i>	12.7 <i>0.500</i>	0.43 <i>0.017</i>	4.06 <i>0.160</i>	2.06 <i>0.081</i>	13.2	302 Stainless Steel	90
# TS-024L-127-043-180-S2	2.36 <i>0.093</i>	12.7 <i>0.500</i>	0.43 <i>0.017</i>	4.37 <i>0.172</i>	3.23 <i>0.127</i>	13.2	302 Stainless Steel	180
# TS-024L-191-051-270-S2	2.36 <i>0.093</i>	19.1 <i>0.752</i>	0.51 <i>0.020</i>	4.45 <i>0.175</i>	6.22 <i>0.245</i>	21.1	302 Stainless Steel	270
# TS-028L-127-030-180-S2	2.77 <i>0.109</i>	12.7 <i>0.500</i>	0.30 <i>0.012</i>	4.24 <i>0.167</i>	1.50 <i>0.059</i>	5.3	302 Stainless Steel	180

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Part Number	Mandrel Size (MS) mm	Length of Leg (E) mm	Wire Diameter mm	Spring Outside Diameter (D0) mm	Minimum Axial Space mm	Torque When Parallel N.mm	Material	Free Deflection Deg.
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-028L-127-043-360-S2	2.77 <i>0.109</i>	12.7 <i>0.500</i>	0.43 <i>0.017</i>	4.42 <i>0.174</i>	2.81 <i>0.111</i>	13.2	302 Stainless Steel	360
# TS-028L-191-038-180-S2	2.77 <i>0.109</i>	19.1 <i>0.752</i>	0.38 <i>0.015</i>	4.65 <i>0.183</i>	1.91 <i>0.075</i>	11	302 Stainless Steel	180
# TS-028L-191-051-090-S2	2.77 <i>0.109</i>	19.1 <i>0.752</i>	0.51 <i>0.020</i>	4.85 <i>0.191</i>	2.41 <i>0.095</i>	21.1	302 Stainless Steel	90
# TS-028L-191-051-180-S2	2.77 <i>0.109</i>	19.1 <i>0.752</i>	0.51 <i>0.020</i>	4.55 <i>0.179</i>	4.32 <i>0.170</i>	21.1	302 Stainless Steel	180
# TS-036L-191-064-090-S2	3.56 <i>0.140</i>	19.1 <i>0.752</i>	0.64 <i>0.025</i>	5.969 <i>0.235</i>	2.438 <i>0.096</i>	0.07	Stainless Steel	90
# TS-036L-254-071-180-S2	3.56 <i>0.140</i>	25.4 <i>1.000</i>	0.71 <i>0.028</i>	6.325 <i>0.249</i>	6.045 <i>0.238</i>	0.09	Stainless Steel	180
# TS-036L-191-043-360-S2	3.56 <i>0.140</i>	19.1 <i>0.752</i>	0.43 <i>0.017</i>	5.97 <i>0.235</i>	4.32 <i>0.170</i>	13.2	302 Stainless Steel	360
TS-036L-191-046-180-S2	3.56 <i>0.140</i>	19.1 <i>0.752</i>	0.46 <i>0.018</i>	5.49 <i>0.216</i>	2.77 <i>0.109</i>	16	302 Stainless Steel	180
# TS-036L-191-064-270-S2	3.56 <i>0.140</i>	19.1 <i>0.752</i>	0.64 <i>0.025</i>	5.56 <i>0.219</i>	8.03 <i>0.316</i>	42.4	302 Stainless Steel	270
# TS-036L-254-051-180-S2	3.56 <i>0.140</i>	25.4 <i>1.000</i>	0.51 <i>0.020</i>	6.15 <i>0.242</i>	3.30 <i>0.130</i>	21.1	302 Stainless Steel	180

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Part Number	Mandrel Size (MS) mm	Length of Leg (E) mm	Wire Diameter mm	Spring Outside Diameter (D0) mm	Minimum Axial Space mm	Torque When Parallel N.mm	Material	Free Deflection Deg.
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-040L-191-043-180-S2	3.96 <i>0.156</i>	19.1 <i>0.752</i>	0.43 <i>0.017</i>	6.32 <i>0.249</i>	2.39 <i>0.094</i>	13.2	302 Stainless Steel	180
# TS-040L-191-043-270-S2	3.96 <i>0.156</i>	19.1 <i>0.752</i>	0.43 <i>0.017</i>	6.58 <i>0.259</i>	3.13 <i>0.123</i>	13.2	302 Stainless Steel	270
# TS-040L-254-051-360-S2	3.96 <i>0.156</i>	25.4 <i>1.000</i>	0.51 <i>0.020</i>	6.45 <i>0.254</i>	6.35 <i>0.250</i>	21.1	302 Stainless Steel	360
# TS-040L-254-053-180-S2	3.96 <i>0.156</i>	25.4 <i>1.000</i>	0.53 <i>0.021</i>	6.27 <i>0.247</i>	3.23 <i>0.127</i>	26	302 Stainless Steel	180
# TS-040L-254-081-180-S2	3.96 <i>0.156</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	6.86 <i>0.270</i>	6.91 <i>0.272</i>	92.7	302 Stainless Steel	180
# TS-040L-254-081-270-S2	3.96 <i>0.156</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	6.71 <i>0.264</i>	9.70 <i>0.382</i>	92.7	302 Stainless Steel	270
# TS-043L-254-081-090-S2	4.34 <i>0.171</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	7.32 <i>0.288</i>	3.86 <i>0.152</i>	92.7	302 Stainless Steel	90
# TS-044L-254-081-090-S2	4.37 <i>0.172</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	7.315 <i>0.288</i>	3.861 <i>0.152</i>	0.14	Stainless Steel	90
# TS-044L-254-051-270-S2	4.37 <i>0.172</i>	25.4 <i>1.000</i>	0.51 <i>0.020</i>	6.81 <i>0.268</i>	4.19 <i>0.165</i>	21.1	302 Stainless Steel	270
# TS-048L-254-053-360-S2	4.75 <i>0.187</i>	25.4 <i>1.000</i>	0.53 <i>0.021</i>	6.883 <i>0.271</i>	6.147 <i>0.242</i>	0.04	Stainless Steel	360

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	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-048L-318-089-090-S2	4.75 <i>0.187</i>	31.8 <i>1.252</i>	0.89 <i>0.035</i>	8.00 <i>0.315</i>	3.43 <i>0.135</i>	113	302 Stainless Steel	90
# TS-048L-318-089-270-S2	4.75 <i>0.187</i>	31.8 <i>1.252</i>	0.89 <i>0.035</i>	7.90 <i>0.311</i>	11.23 <i>0.442</i>	113	302 Stainless Steel	270
# TS-048L-318-089-180-S2	4.75 <i>0.187</i>	31.8 <i>1.252</i>	0.89 <i>0.035</i>	7.70 <i>0.303</i>	7.37 <i>0.290</i>	113	302 Stainless Steel	180
# TS-048L-318-102-090-S2	4.75 <i>0.187</i>	31.8 <i>1.252</i>	1.02 <i>0.040</i>	7.849 <i>0.309</i>	5.029 <i>0.198</i>	0.24	Stainless Steel	90
# TS-052L-318-114-090-S2	5.16 <i>0.203</i>	31.8 <i>1.252</i>	1.14 <i>0.045</i>	9.068 <i>0.357</i>	6.579 <i>0.259</i>	0.35	Stainless Steel	90
# TS-052L-254-064-180-S2	5.16 <i>0.203</i>	25.4 <i>1.000</i>	0.64 <i>0.025</i>	7.72 <i>0.304</i>	3.84 <i>0.151</i>	42.4	302 Stainless Steel	180
# TS-055L-318-097-270-S2	5.54 <i>0.218</i>	31.8 <i>1.252</i>	0.97 <i>0.038</i>	8.966 <i>0.353</i>	11.811 <i>0.465</i>	0.21	Stainless Steel	270
# TS-055L-318-122-090-S2	5.54 <i>0.218</i>	31.8 <i>1.252</i>	1.22 <i>0.048</i>	9.525 <i>0.375</i>	6.045 <i>0.238</i>	0.44	Stainless Steel	90
# TS-055L-254-064-270-S2	5.54 <i>0.218</i>	25.4 <i>1.000</i>	0.64 <i>0.025</i>	8.64 <i>0.340</i>	5.23 <i>0.206</i>	42.4	302 Stainless Steel	270
# TS-055L-254-064-360-S2	5.54 <i>0.218</i>	25.4 <i>1.000</i>	0.64 <i>0.025</i>	8.23 <i>0.324</i>	7.32 <i>0.288</i>	42.4	302 Stainless Steel	360

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	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-055L-254-081-180-S2	5.54 <i>0.218</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	9.30 <i>0.366</i>	5.28 <i>0.208</i>	92.7	302 Stainless Steel	180
# TS-055L-254-081-270-S2	5.54 <i>0.218</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	8.99 <i>0.354</i>	7.52 <i>0.296</i>	92.7	302 Stainless Steel	270
# TS-059L-508-130-090-S2	5.94 <i>0.234</i>	50.8 <i>2.000</i>	1.30 <i>0.051</i>	10.363 <i>0.408</i>	7.442 <i>0.293</i>	0.51	Stainless Steel	90
# TS-060L-254-081-360-S2	5.95 <i>0.234</i>	25.4 <i>1.000</i>	0.81 <i>0.032</i>	9.70 <i>0.382</i>	8.94 <i>0.352</i>	92.7	302 Stainless Steel	360
TS-064L-254-076-180-S2	6.35 <i>0.250</i>	25.4 <i>1.000</i>	0.76 <i>0.030</i>	10.01 <i>0.394</i>	4.59 <i>0.181</i>	72	302 Stainless Steel	180
# TS-064L-318-122-180-S2	6.35 <i>0.250</i>	31.8 <i>1.252</i>	1.22 <i>0.048</i>	10.262 <i>0.404</i>	11.430 <i>0.450</i>	0.44	Stainless Steel	180
TS-071L-318-089-180-S2	7.14 <i>0.281</i>	31.8 <i>1.252</i>	0.89 <i>0.035</i>	11.43 <i>0.450</i>	5.39 <i>0.212</i>	113	302 Stainless Steel	180
# TS-071L-318-089-270-S2	7.14 <i>0.281</i>	31.8 <i>1.252</i>	0.89 <i>0.035</i>	11.05 <i>0.435</i>	8.33 <i>0.328</i>	113	302 Stainless Steel	270
# TS-075L-508-137-090-S2	7.52 <i>0.296</i>	50.8 <i>2.000</i>	1.37 <i>0.054</i>	12.294 <i>0.484</i>	7.874 <i>0.310</i>	0.57	Stainless Steel	90
TS-075L-508-150-090-S2	7.52 <i>0.296</i>	50.8 <i>2.000</i>	1.50 <i>0.059</i>	12.675 <i>0.499</i>	8.636 <i>0.340</i>	0.74	Stainless Steel	90

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Part Number	Mandrel Size (MS) mm	Length of Leg (E) mm	Wire Diameter mm	Spring Outside Diameter (D0) mm	Minimum Axial Space mm	Torque When Parallel N.mm	Material	Free Deflection Deg.
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-079L-318-089-360-S2	7.92 <i>0.312</i>	31.8 <i>1.252</i>	0.89 <i>0.035</i>	11.96 <i>0.471</i>	10.29 <i>0.405</i>	113	302 Stainless Steel	360
# TS-083L-508-150-180-S2	8.33 <i>0.328</i>	50.8 <i>2.000</i>	1.50 <i>0.059</i>	13.360 <i>0.526</i>	14.224 <i>0.560</i>	0.74	Stainless Steel	180
TS-087L-508-102-180-S2	8.71 <i>0.343</i>	50.8 <i>2.000</i>	1.02 <i>0.040</i>	13.16 <i>0.518</i>	6.15 <i>0.242</i>	158	302 Stainless Steel	180
TS-087L-508-160-090-S2	8.71 <i>0.343</i>	50.8 <i>2.000</i>	1.60 <i>0.063</i>	14.224 <i>0.560</i>	9.195 <i>0.362</i>	0.9	Stainless Steel	90
# TS-091L-508-114-270-S2	9.12 <i>0.359</i>	50.8 <i>2.000</i>	1.14 <i>0.045</i>	14.122 <i>0.556</i>	10.541 <i>0.415</i>	0.35	Stainless Steel	270
TS-103L-508-122-180-S2	10.31 <i>0.406</i>	50.8 <i>2.000</i>	1.22 <i>0.048</i>	15.70 <i>0.618</i>	7.42 <i>0.292</i>	290	302 Stainless Steel	180
# TS-103L-508-198-090-S2	10.31 <i>0.406</i>	50.8 <i>2.000</i>	1.98 <i>0.078</i>	17.450 <i>0.687</i>	11.430 <i>0.450</i>	1.71	Stainless Steel	90
# TS-107L-508-137-180-S2	10.69 <i>0.421</i>	50.8 <i>2.000</i>	1.37 <i>0.054</i>	16.61 <i>0.654</i>	10.29 <i>0.405</i>	369	302 Stainless Steel	180
TS-127L-508-160-180-S2	12.70 <i>0.500</i>	50.8 <i>2.000</i>	1.60 <i>0.063</i>	19.48 <i>0.767</i>	12.07 <i>0.475</i>	580	302 Stainless Steel	180
# TS-127L-508-198-180-S2	12.70 <i>0.500</i>	50.8 <i>2.000</i>	1.98 <i>0.078</i>	20.396 <i>0.803</i>	16.764 <i>0.660</i>	1.71	Stainless Steel	180

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	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>			
# TS-135L-508-178-270-S2	13.49	50.8	1.78	20.980	18.212	1.23	Stainless Steel	270
	0.531	2.000	0.070	0.826	0.717			

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