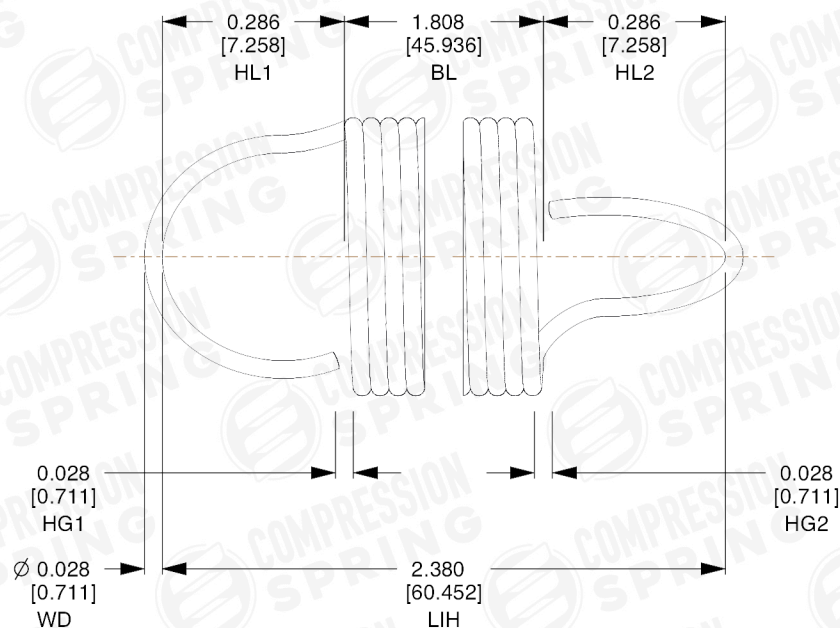
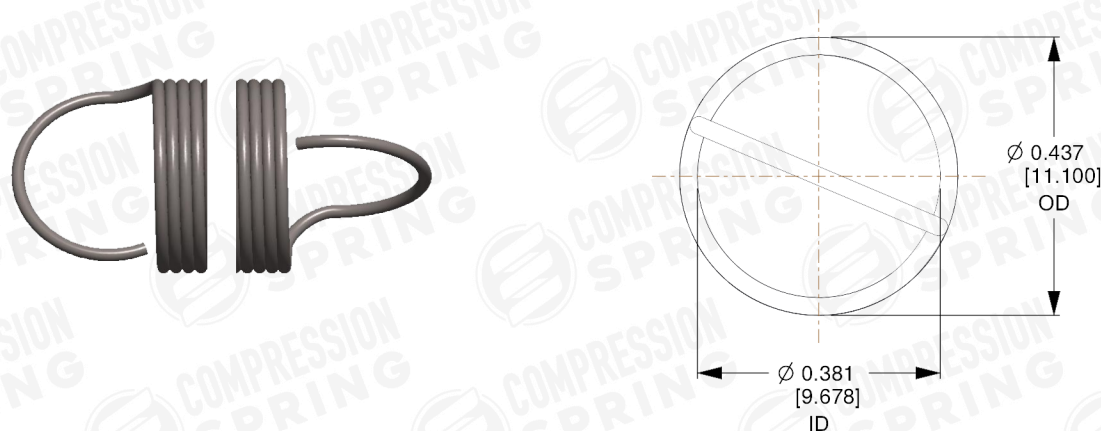


|                                                |                                                 |
|------------------------------------------------|-------------------------------------------------|
| Part Name:                                     | Date: 06/02/2026                                |
| Part #: in<br>(Click to see Part # on Website) | <a href="#">PE028-437-63590-MW-2380-MH-N-IN</a> |
| Spring Type: Extension Spring                  | End Type: Machine Hook                          |
| Finish: None                                   | Direction of Wind: Right Hand                   |
| Material: Music Wire ASTM A228                 | Spring Index (I): 14.607                        |
| Weight / M: 14.605 Lbs                         | Length of W: 83.474 in                          |

| Physical Dimensions       | IN       | MM          | Tolerances (in) |
|---------------------------|----------|-------------|-----------------|
| Wire Diameter (WD)        | 0.028 in | [0.711 mm]  | +/- 0.001       |
| Outer Diameter (OD)       | 0.437 in | [11.100 mm] | +/- 0.008       |
| Mean Diameter (MD)        | 0.409 in | [10.389 mm] | +/- 0.008       |
| Inner Diameter (ID)       | 0.381 in | [9.677 mm]  | +/- 0.008       |
| Length Inside Hooks (LIH) | 2.380 in | [60.452 mm] | +/- 0.100       |
| Body Length (BL)          | 1.808 in | [45.923 mm] | +/- 0.050       |
| Hook Gap 1 (HG1)          | 0.028 in | [0.711 mm]  |                 |
| Hook Gap 2 (HG2)          | 0.028 in | [0.711 mm]  |                 |
| Hook Length 1 (HL1)       | 0.286 in | [7.264 mm]  |                 |
| Hook Length 2 (HL2)       | 0.286 in | [7.264 mm]  |                 |
| Total Hook Length (THL)   | 0.572 in | [14.529 mm] |                 |

|                                   |                  |                    |           |
|-----------------------------------|------------------|--------------------|-----------|
| Spring Rate (K)                   | 0.20302 lbs/in   | 0.036 N/mm         | +/- 0.020 |
| Max Load (ML)                     | 2.488 lbf        | 11.068 N           | +/- 0.249 |
| Max Travel (MT)                   | 11.510 in        | 292.364 mm         |           |
| Initial Tension (IT)              | 0.151 lbf        | 0.673 N            |           |
| Max Shear Stress Possible (t max) | 158390.000 PSI   | 1092060607.638 Pa  |           |
| Material Shear Modulus (G)        | 11492970.929 PSI | 79241245134.131 Pa |           |
| Wahl Correction Factor (W)        | 1.097            | 1.097              |           |



Note: Body Length, Total Coils, End Type and End Position is for reference only.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |             |           |                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes                                                                                                                                                                                                                                                                                                                                                                                                                                           | Scale: 3.318 | Revision #: | Drawn By: | Approved By:                                                                                                                                                                                                                                      |
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