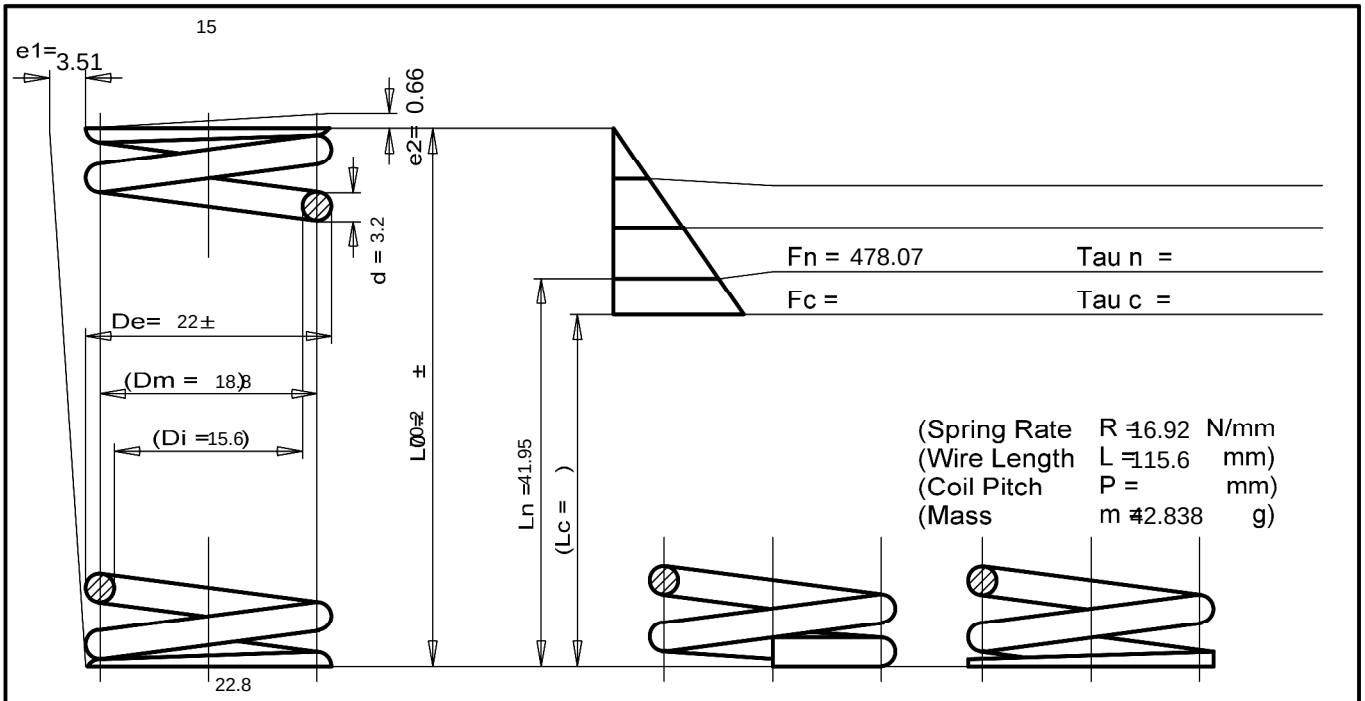
# HEXAGON FED1+ Druckfederberechnung nach EN 13906-1 V31.0




Illustr.1. ⊗ Spring ends lined up and ground

Illustr.2. ○ Spring ends lined up

Illustr.3. ○ Spring ends lined up, forged and ground

| | | | |
|---|---|---|---|
| 1 | No. of Active Coils | n = 9.5 | |
| | Total No. of Coils | nt = 11.5 | |
| 2 | Direction of Coils | right | ⊗ |
| | | left | ○ |
| 3 | Deburring of Spring Ends | no | ⊗ |
| | | inside | ○ |
| | | outside | ○ |
| 4 | Working Path (Stroke) | | |
| 5 | Stress Cycle Frequency | | |
| 6 | Range of working temperature | 0 .. 80 °C | |
| 7 | Wire or Rod Surface | drawn | ⊗ |
| | | rolled | ○ |
| | | tipless grinding | ○ |
| | | spring shot-blasted with steel balls | ○ |
| 8 | Surface Protection: | | |
| 9 | Material: SH/DH | | |

10 Permissible Deviations according to EN 15800 Quality Class / DIN 2096

| | 1 | 2 | 3 | DIN 2096 |
|---|---|---|---|---|
| De, Di | ○ | ○ | ○ | ○ |
| L0 | ○ | ○ | ○ | ○ |
| F1 | ○ | ○ | ○ | ○ |
| F2 | ○ | ○ | ○ | ○ |
| e1 | ○ | ○ | ○ | ○ |
| e2 | ○ | ○ | ○ | ○ |
| d | | | | |

| | | | |
|---|---|---|---|
| 11 | Manufacturing Tolerance | by: | |
| | a) if the spring force and the spring length are specified | L0 | ○ |
| | b) if the spring force, the spring length and L0 are specified | n and d | ⊗ |
| | | n and De, Di | ○ |
| | c) if two spring forces and the spring lengths are specified | L0, n and d | ○ |
| | | L0, n and De, Di | ○ |
| 12 | Set Test Springs ! | Springs to be supplied not set may be longer than L0 | |
| | Supply remaining springs set | ○ | |
| | not set | ○ | |

| Cond. | Modification | Date | Name |
|---|---|---|---|
| | | | |

| | Date | Name |
|---|---|---|
| Compl. | | |
| Check | | |
| Stand. | | |

ZILLER PRÄZISIONSFEDERN

ZILLER Böhmenkirch

# Feder

D-32013

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