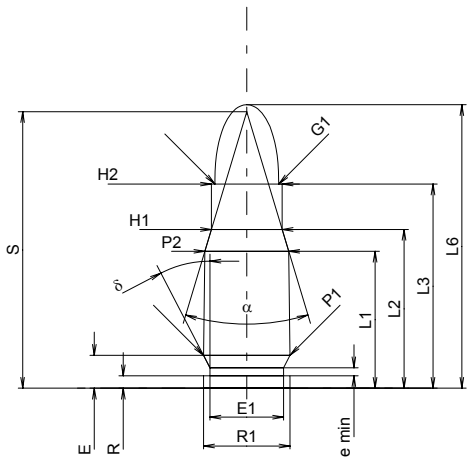
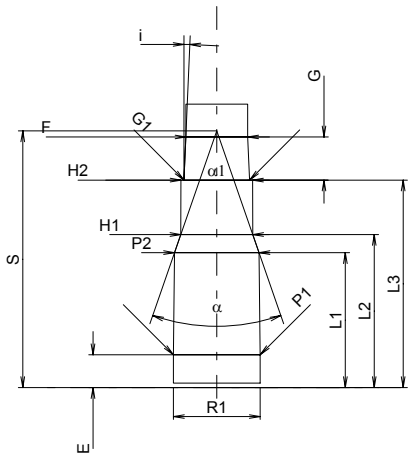
# C.I.P.

## 5,45 x 18

Country of Origin: SU

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **93-05-24** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 12.07 | -0.20 |
| L2 1)* | = | 14.00 | -0.20 |
| L3 1) | = | 18.00 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 25.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.10 | |
| R1 | = | 7.62 | |
| R3 | = | | |
| E | = | 2.90 | |
| E1 | = | 6.48 | |
| e min | = | 0.70 | |
| δ | = | 27°23'24" | |
| f | = | | |
| β | = | | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 7.62 | |
| P2 1)* | = | 7.40 | -0.20 |

**Junction Cone**

| | | | |
|---|---|---|---|
| α | = | 33°27'10" | |
| S | = | 24.38 | |
| r1 min | = | | |
| r2 | = | | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 6.24 | |
| H2 1) | = | 6.24 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 5.62 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 21.80 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 1750 | bar |
| PK | = | 2013 | bar |
| PE | = | 2275 | bar |
| M | = | 9.00 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.20 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | | |
|---|---|---|---|
| L1 * | = | 11.90 | |
| L2 * | = | 13.50 | |
| L3 1) | = | 18.30 | |

**Breech**

| | | | |
|---|---|---|---|
| R | = | 1.10 | |
| R1 | = | 7.65 | |
| R2 | = | | |
| R3 | = | | |
| r | = | | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| E | = | 2.90 | |
| P1 1) | = | 7.65 | |
| P2 * | = | 7.45 | |

**Junction Cone**

| | | | |
|---|---|---|---|
| α 1) | = | 38°15'39" | |
| S | = | 22.64 | |
| r1 max | = | | |
| r2 | = | | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 6.34 | |
| H2 1) | = | 6.31 | |

**Commencement of Rifling**

| | | | |
|---|---|---|---|
| G1 1)* | = | 5.77 | |
| G 1)* | = | 3.80 | |
| α1 | = | 180° | |
| h | = | | |
| s | = | | |
| i 1) | = | 2°24'40" | |
| w | = | | |

**Barrel**

| | | | |
|---|---|---|---|
| F 1)* | = | 5.45 | |
| Z 1) | = | 5.62 | |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.00 | |
| N | = | 6 | |
| u | = | 476.00 | |
| Q | = | 24.37 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

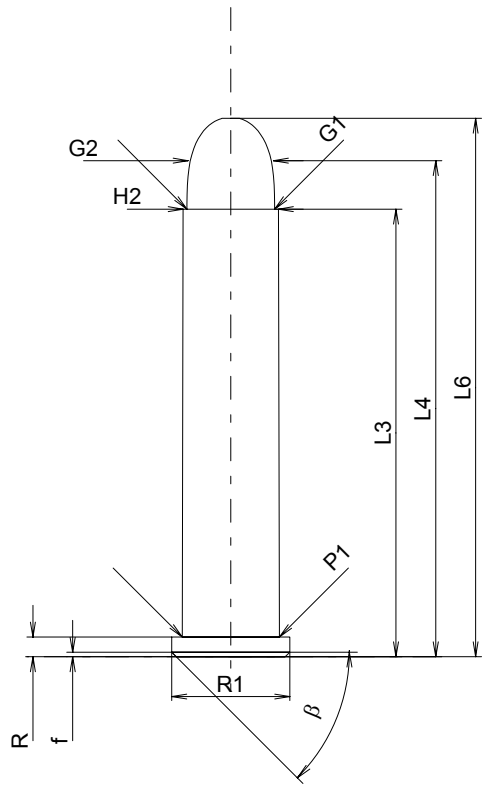
Notes: 1) Check for safety reasons
* Basic dimensions

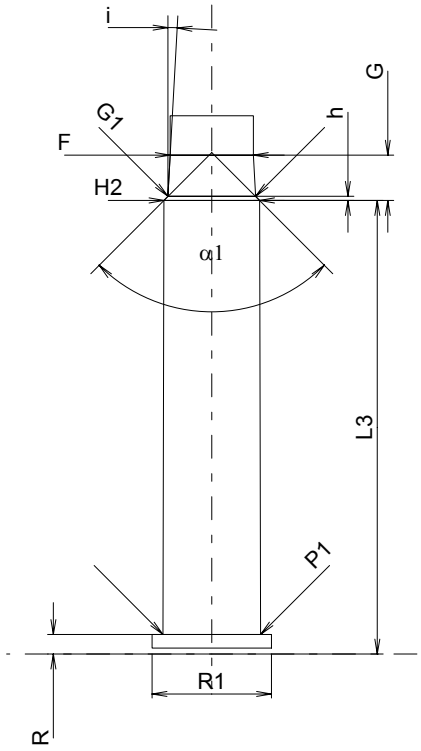
# C.I.P.

## 5,75 Velodog

Country of Origin: FR

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 2:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 29.60 | |
| L4 | = | 32.80 | |
| L5 | = | | |
| L6 | = | 35.60 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.30 | -0.25 |
| R1 | = | 7.80 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 6.42 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 6.30 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 5.79 |
| G2 | = | 5.65 |
| F | = | |
| L3+G 1) | = | 32.60 |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 680 | bar |
| PK | = | 782 | bar |
| PE | = | 884 | bar |
| M | = | 17.50 | |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 30.00 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.30 |
| R1 | = | 7.90 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 6.45 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 6.33 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 5.80 |
| G 1)* | = | 3.00 |
| α1 | = | 90° |
| h * | = | 0.27 |
| s | = | |
| i 1) | = | 3°08'42" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 5.50 |
| Z 1) | = | 5.75 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.30 | |
| N | = | 4 | |
| u | = | 454.00 | |
| Q | = | 24.94 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

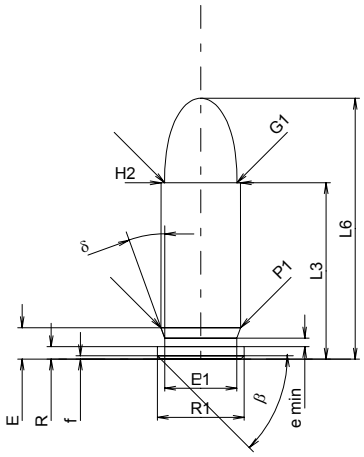
Notes: 1) Check for safety reasons
* Basic dimensions

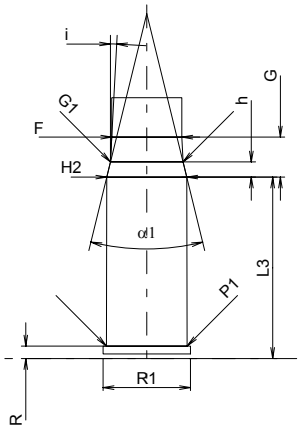
# C.I.P.

## 6,35 Browning

Country of Origin: BE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 15.55 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 23.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.10 | -0.25 |
| R1 | = | 7.65 | |
| R3 | = | | |
| E | = | 2.77 | |
| E1 | = | 6.35 | |
| e min | = | 0.75 | |
| δ | = | 20° | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 7.02 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 7.00 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 6.38 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 19.07 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1200 bar |
| PK | = | 1380 bar |
| PE | = | 1560 bar |
| M | = | 9.00 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 16.00 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.10 |
| R1 | = | 7.70 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 7.12 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 7.05 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 6.40 |
| G 1)* | = | 3.52 |
| α1 | = | 27°30' |
| h * | = | 1.33 |
| s | = | |
| i 1) | = | 3°00'20" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 6.17 |
| Z 1) | = | 6.35 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.25 | |
| N | = | 6 | |
| u | = | 254.00 | |
| Q | = | 31.14 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

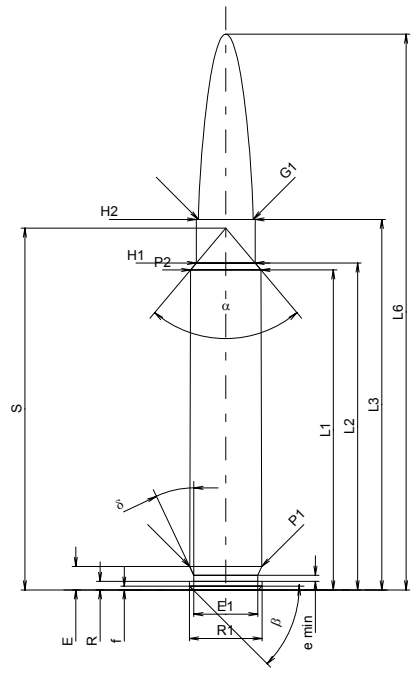
Notes: 1) Check for safety reasons
* Basic dimensions

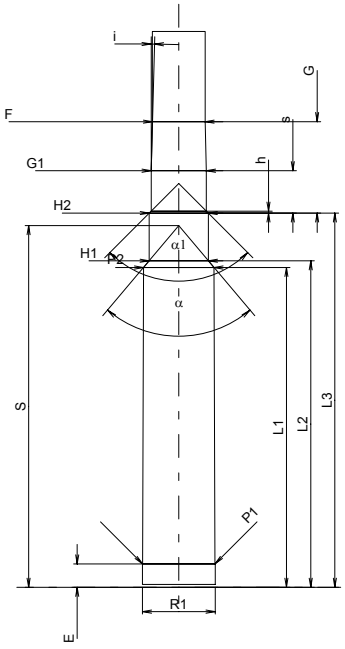
# C.I.P.

## 7x49 GJW

Country of Origin: DE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **91-02-19** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 42.32 | -0.20 |
| L2 1)* | = | 43.23 | -0.20 |
| L3 1) | = | 49.00 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 73.50 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.14 | |
| R1 | = | 9.60 | |
| R3 | = | | |
| E | = | 3.10 | |
| E1 | = | 8.44 | |
| e min | = | 0.80 | |
| δ | = | 25°22'18" | |
| f | = | 0.50 | |
| β | = | 45° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.54 | |
| P2 1)* | = | 9.30 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 80°06'18" |
| S | = | 47.85 |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 7.77 | |
| H2 1) | = | 7.77 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 7.25 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 61.09 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 4700 | bar |
| PK | = | 5405 | bar |
| PE | = | 6110 | bar |
| M | = | 25.00 | |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.10 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 42.30 |
| L2 * | = | 43.19 |
| L3 1) | = | 49.50 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.14 |
| R1 | = | 9.63 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.10 |
| P1 1) | = | 9.57 |
| P2 * | = | 9.33 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 80°14'27" |
| S | = | 47.84 |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 7.83 |
| H2 1) | = | 7.80 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.30 |
| G 1)* | = | 12.09 |
| α1 | = | 90° |
| h | = | 0.25 |
| s * | = | 5.60 |
| i 1) | = | 1°30' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 6.96 |
| Z 1) | = | 7.20 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.70 | |
| N | = | 4 | |
| u | = | 228.00 | |
| Q | = | 39.91 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

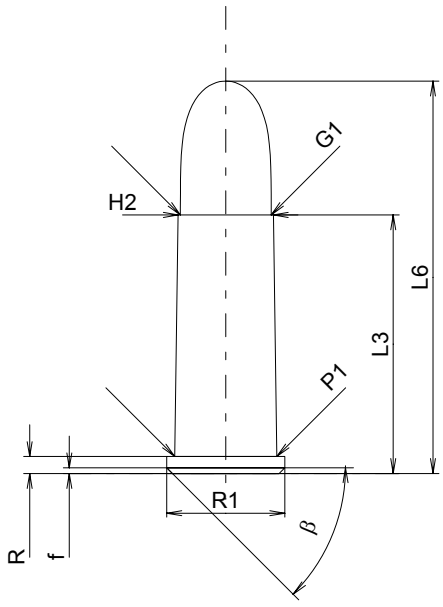
Notes: 1) Check for safety reasons
* Basic dimensions

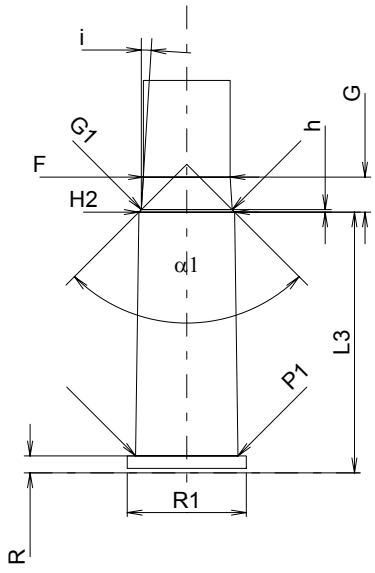
# C.I.P.

## 7,5 Ord. Suisse

Country of Origin: CH

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 22.80 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 34.60 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.50 | -0.25 |
| R1 | = | 10.40 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.50 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.00 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.40 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.00 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 25.88 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1850 bar |
| PK | = | 2128 bar |
| PE | = | 2405 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.00 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.50 |
| R1 | = | 10.50 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.03 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.43 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.00 |
| G * | = | 3.08 |
| α1 * | = | 90° |
| h | = | 0.22 |
| s | = | |
| i 1)* | = | 30°30' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.65 |
| Z 1) | = | 8.00 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.40 | |
| N | = | 4 | |
| u | = | 350.00 | |
| Q | = | 47.67 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

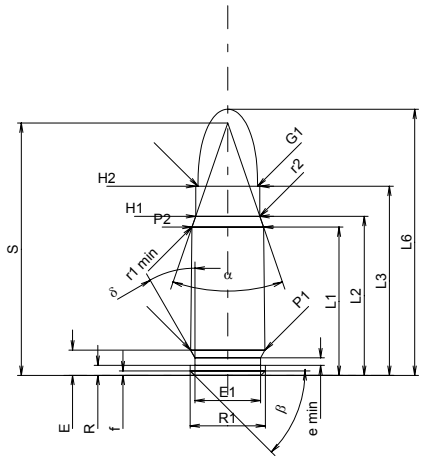
Notes: 1) Check for safety reasons
* Basic dimensions

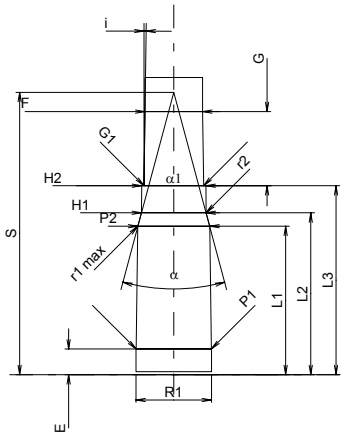
# C.I.P.

## 7,62 x 25 Tokarev

Country of Origin: SU

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **90-04-04** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 19.60 | -0.20 |
| L2 1)* | = | 21.04 | -0.20 |
| L3 1) | = | 25.00 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 35.20 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.32 |
| R1 | = | 9.95 |
| R3 | = | |
| E | = | 3.34 |
| E1 | = | 8.65 |
| e min | = | 1.00 |
| δ | = | 30° |
| f | = | 0.60 |
| β | = | 45° |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.83 | |
| P2 1)* | = | 9.48 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 38° |
| S | = | 33.37 |
| r1 min | = | 0.50 |
| r2 | = | 2.00 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.49 |
| H2 1) | = | 8.49 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.90 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 34.80 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2400 bar |
| PK | = | 2760 bar |
| PE | = | 3120 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.20 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 19.65 |
| L2 * | = | 21.42 |
| L3 1) | = | 25.00 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.40 |
| R1 | = | 10.00 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.40 |
| P1 1) | = | 9.95 |
| P2 * | = | 9.50 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 30°02'38" |
| S | = | 37.35 |
| r1 max | = | 0.50 |
| r2 | = | 1.00 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.55 |
| H2 1) | = | 8.50 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.90 |
| G 1)* | = | 9.80 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 0°49'05" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.62 |
| Z 1) | = | 7.92 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.81 | |
| N | = | 4 | |
| u | = | 240.00 | |
| Q | = | 47.99 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

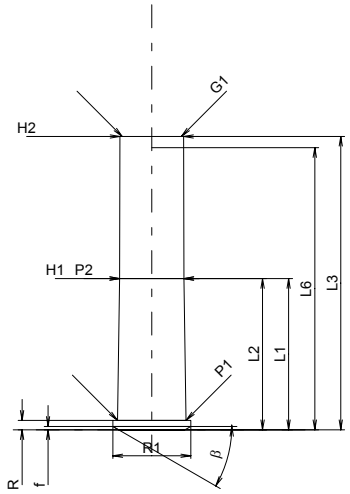
Notes: 1) Check for safety reasons
* Basic dimensions

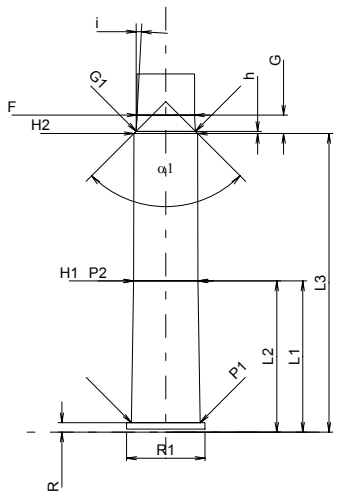
# C.I.P.

## 7,62 Nagant

Country of Origin: BE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 20.00 |
| L2 * | = | 20.00 |
| L3 1) | = | 38.80 |
| L4 | = | |
| L5 | = | |
| L6 | = | 37.30 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.25 | -0.25 |
| R1 | = | 10.30 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.44 | |
| β | = | 30° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.06 |
| P2 * | = | 8.51 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.51 |
| H2 1) | = | 8.42 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.82 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 41.23 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 770 bar |
| PK | = | 886 bar |
| PE | = | 1001 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 20.00 |
| L2 * | = | 20.00 |
| L3 1) | = | 39.50 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.25 |
| R1 | = | 10.35 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.10 |
| P2 * | = | 8.53 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.53 |
| H2 1) | = | 8.41 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.85 |
| G 1)* | = | 2.43 |
| α1 | = | 90° |
| h * | = | 0.28 |
| s | = | |
| i 1) | = | 3°03'42" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.62 |
| Z 1) | = | 7.82 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.81 | |
| N | = | 4 | |
| u | = | 240.00 | |
| Q | = | 47.99 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

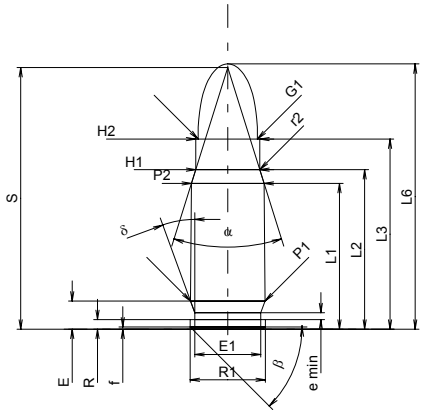
Notes: 1) Check for safety reasons
* Basic dimensions

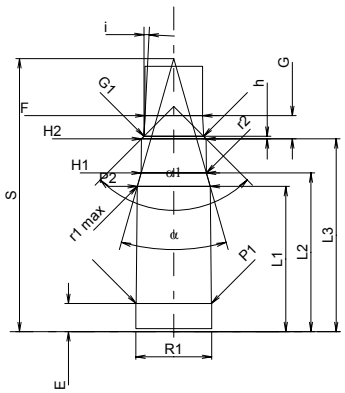
# C.I.P.

## 7,63 Mauser

Country of Origin: DE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 19.28 | -0.20 |
| L2 1)* | = | 21.10 | -0.20 |
| L3 1) | = | 25.15 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 35.08 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.27 |
| R1 | = | 9.98 |
| R3 | = | |
| E | = | 3.72 |
| E1 | = | 8.73 |
| e min | = | 0.90 |
| δ | = | 20° |
| f | = | 0.30 |
| β | = | 45° |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.86 | |
| P2 1)* | = | 9.60 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 34°46'47" |
| S | = | 34.61 |
| r1 min | = | |
| r2 | = | 2.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.46 |
| H2 1) | = | 8.46 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.86 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 28.22 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2600 bar |
| PK | = | 2990 bar |
| PE | = | 3380 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.20 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 19.21 |
| L2 * | = | 20.98 |
| L3 1) | = | 25.50 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.27 |
| R1 | = | 10.03 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.72 |
| P1 1) | = | 9.93 |
| P2 * | = | 9.64 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 31°50'52" |
| S | = | 36.10 |
| r1 max | = | 2.50 |
| r2 | = | 2.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.63 |
| H2 1) | = | 8.55 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.90 |
| G 1)* | = | 3.07 |
| α1 | = | 90° |
| h * | = | 0.33 |
| s | = | |
| i 1) | = | 2°55'30" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.62 |
| Z 1) | = | 7.85 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.65 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 47.47 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

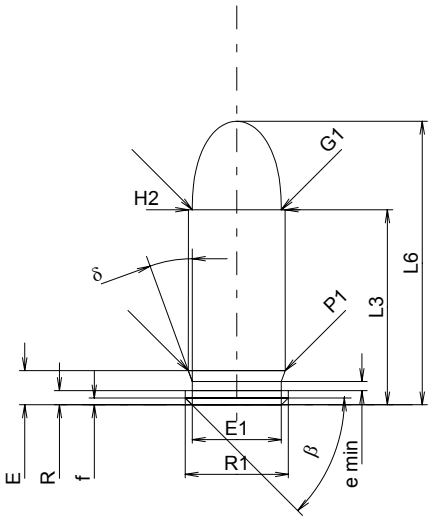
Notes: 1) Check for safety reasons
* Basic dimensions

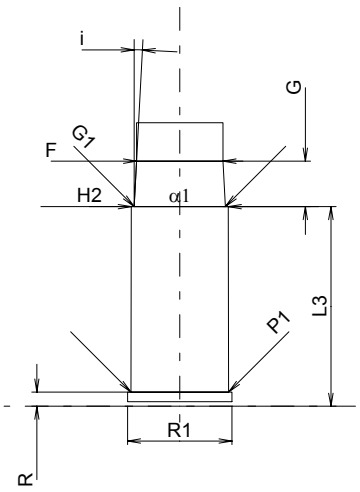
# C.I.P.

## 7,65 mm Browning

Country of Origin: BE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 17.20 |
| L4 | = | |
| L5 | = | |
| L6 | = | 25.00 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.25 | -0.25 |
| R1 | = | 9.10 | |
| R3 | = | | |
| E | = | 3.01 | |
| E1 | = | 7.85 | |
| e min | = | 0.80 | |
| δ | = | 20° | |
| f | = | 0.60 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.55 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.52 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.85 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 21.21 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1600 bar |
| PK | = | 1840 bar |
| PE | = | 2080 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 17.60 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.25 |
| R1 | = | 9.20 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.62 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.55 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.05 |
| G 1)* | = | 4.01 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 2°59'52" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.63 |
| Z 1) | = | 7.83 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 47.37 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

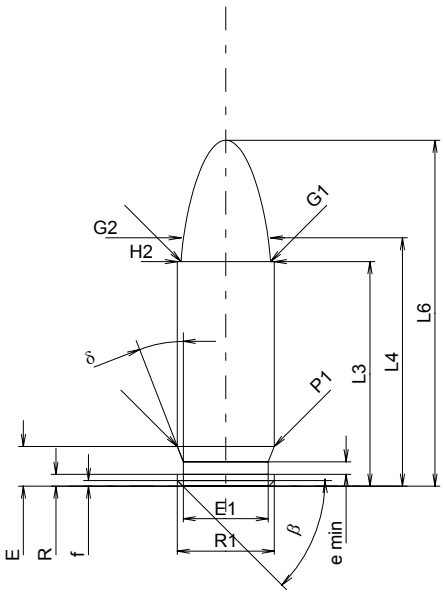
Notes: 1) Check for safety reasons
* Basic dimensions

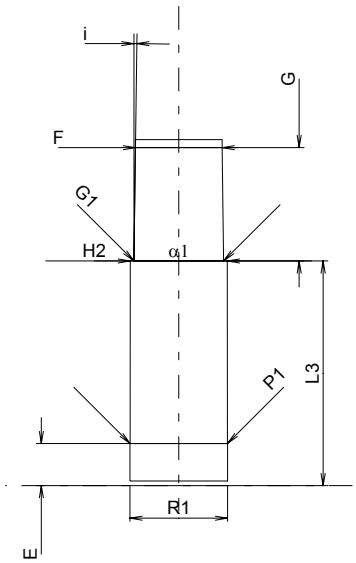
# C.I.P.

## 7,65 Long

Country of Origin: FR

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **92-04-17** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 19.80 | -0.25 |
| L4 | = | 21.90 | |
| L5 | = | | |
| L6 | = | 30.50 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.05 |
| R1 | = | 8.55 |
| R3 | = | |
| E | = | 3.50 |
| E1 | = | 7.50 |
| e min | = | 1.10 |
| δ | = | 21°15'02" |
| f | = | 0.50 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.55 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.55 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.88 |
| G2 | = | 7.88 |
| F | = | |
| L3+G 1) | = | 29.80 |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 1650 | bar |
| PK | = | 1898 | bar |
| PE | = | 2145 | bar |
| M | = | 10.50 | |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 19.80 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.10 |
| R1 | = | 8.60 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.70 |
| P1 1) | = | 8.57 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.55 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.92 |
| G 1)* | = | 10.00 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 0°46'25" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.65 |
| Z 1) | = | 7.91 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.23 | |
| N | = | 4 | |
| u | = | 254.00 | |
| Q | = | 48.29 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

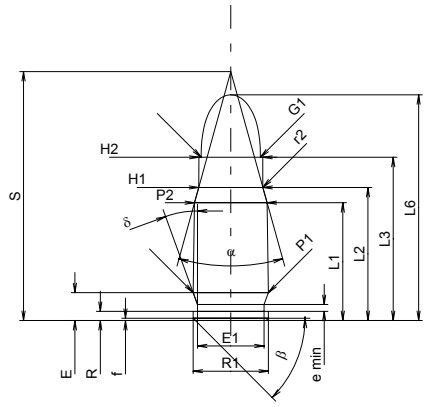
Notes: 1) Check for safety reasons
* Basic dimensions

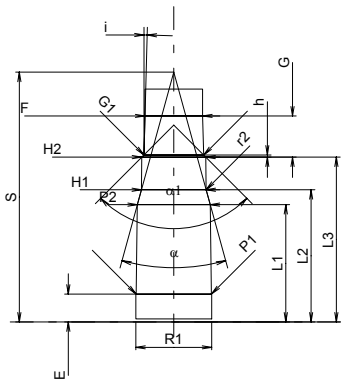
# C.I.P.

## 7,65 Parabellum

Country of Origin: DE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 15.58 | -0.20 |
| L2 1)* | = | 17.62 | -0.20 |
| L3 1) | = | 21.59 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 29.85 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.22 | |
| R1 | = | 9.98 | |
| R3 | = | | |
| E | = | 3.69 | |
| E1 | = | 8.79 | |
| e min | = | 0.90 | |
| δ | = | 20° | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.93 | |
| P2 1)* | = | 9.61 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 30°57'41" |
| S | = | 32.93 |
| r1 min | = | |
| r2 | = | 2.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.48 |
| H2 1) | = | 8.43 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.85 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 27.05 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2350 bar |
| PK | = | 2703 bar |
| PE | = | 3055 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.20 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 15.52 |
| L2 * | = | 17.50 |
| L3 1) | = | 21.80 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.22 |
| R1 | = | 10.03 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.69 |
| P1 1) | = | 9.96 |
| P2 * | = | 9.64 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 30°46'44" |
| S | = | 33.03 |
| r1 max | = | |
| r2 | = | 2.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.55 |
| H2 1) | = | 8.48 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.90 |
| G 1)* | = | 5.46 |
| α1 | = | 90° |
| h * | = | 0.29 |
| s | = | |
| i 1) | = | 1°33'04" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.62 |
| Z 1) | = | 7.83 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.05 | |
| N | = | 4 | |
| u | = | 275.00 | |
| Q | = | 46.92 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

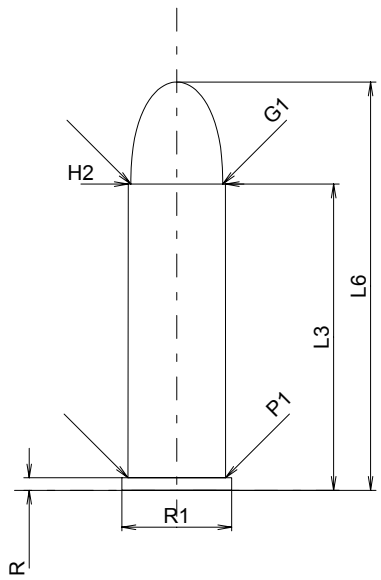
Notes: 1) Check for safety reasons
* Basic dimensions

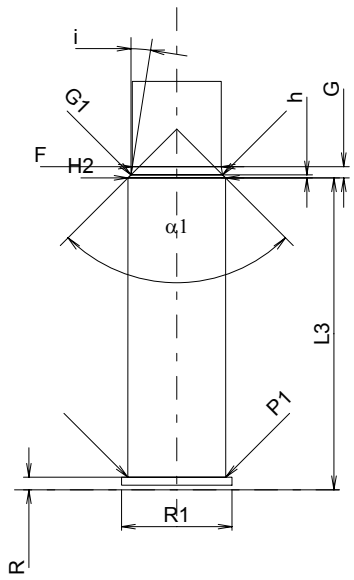
# C.I.P.

## 8 mm Gasser

Country of Origin: AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 27.00 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 36.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.10 | -0.25 |
| R1 | = | 9.68 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | | |
| β | = | | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.60 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.56 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.11 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 27.99 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 27.50 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.10 |
| R1 | = | 9.75 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.64 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.60 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.08 |
| G 1)* | = | 0.99 |
| α1 | = | 90° |
| h * | = | 0.26 |
| s | = | |
| i 1) | = | 8°57'09" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.85 |
| Z 1) | = | 8.05 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.00 | |
| N | = | 6 | |
| u | = | 150.00 | |
| Q | = | 50.24 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

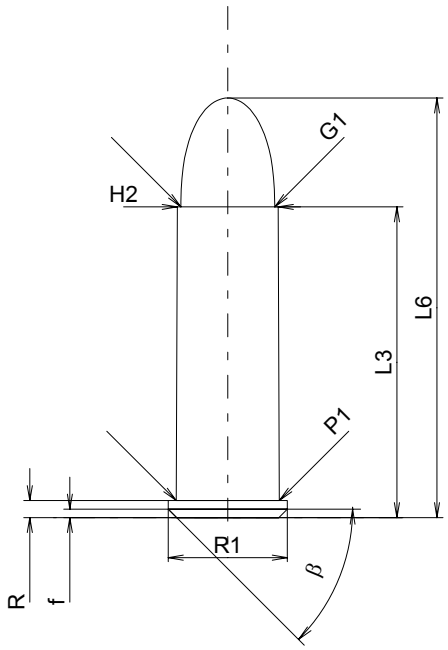
Notes: 1) Check for safety reasons
* Basic dimensions

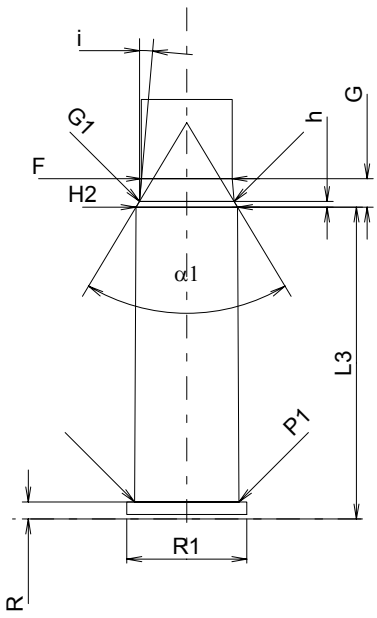
# C.I.P.

## 8 mm Lebel

Country of Origin: FR

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 27.40 | |
| L4 | = | 32.00 | |
| L5 | = | | |
| L6 | = | 37.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.50 | -0.25 |
| R1 | = | 10.50 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.75 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.10 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.90 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.28 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 29.90 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1250 bar |
| PK | = | 1438 bar |
| PE | = | 1625 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 27.50 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.50 |
| R1 | = | 10.60 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.20 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.95 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.35 |
| G 1)* | = | 2.50 |
| α1 | = | 62° |
| h * | = | 0.50 |
| s | = | |
| i 1) | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.00 |
| Z 1) | = | 8.30 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.19 | |
| N | = | 4 | |
| u | = | 240.00 | |
| Q | = | 52.91 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

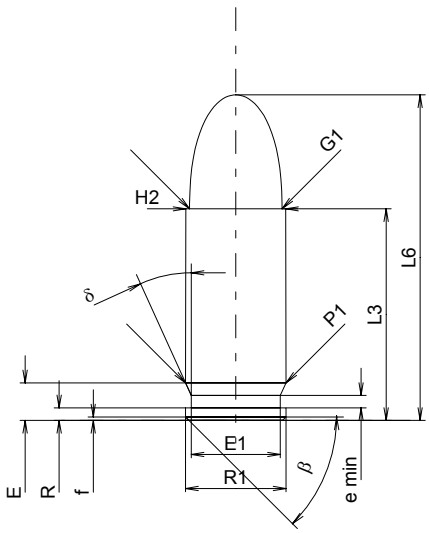
Notes: 1) Check for safety reasons
* Basic dimensions

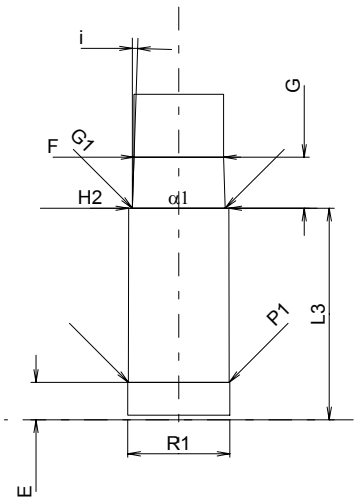
# C.I.P.

## 8 mm Steyr

Country of Origin: AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 18.65 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 28.70 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.10 |
| R1 | = | 8.85 |
| R3 | = | |
| E | = | 3.30 |
| E1 | = | 7.85 |
| e min | = | 1.10 |
| δ | = | 24°26'38" |
| f | = | 0.30 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.85 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.80 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.15 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 23.15 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2100 bar |
| PK | = | 2415 bar |
| PE | = | 2730 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 18.65 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 9.00 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.30 |
| P1 1) | = | 8.88 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.83 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.20 |
| G 1)* | = | 4.50 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 1°54'33" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.90 |
| Z 1) | = | 8.15 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.00 | |
| N | = | 4 | |
| u | = | 250.00 | |
| Q | = | 50.55 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

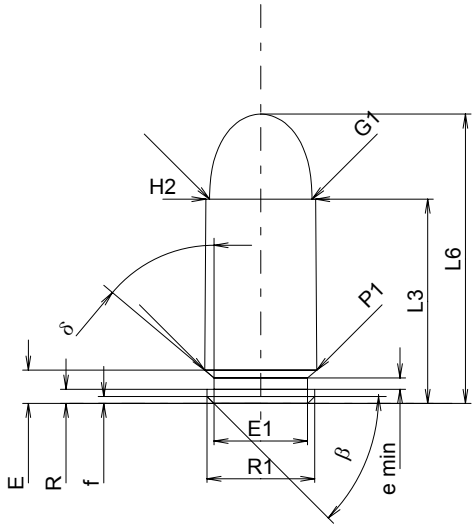
Notes: 1) Check for safety reasons
* Basic dimensions

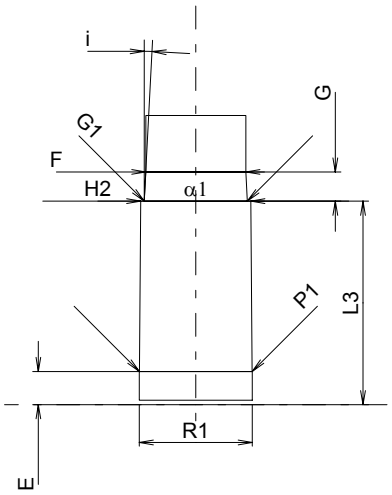
# C.I.P.

## 9 x 18

Country of Origin: DE/AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 18.00 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 25.50 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.25 | |
| R1 | = | 9.50 | |
| R3 | = | | |
| E | = | 2.93 | |
| E1 | = | 8.25 | |
| e min | = | 1.00 | |
| δ | = | 49°59'24" | |
| f | = | 0.60 | |
| β | = | 45° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.87 | |
| P2 | = | | |

**Junction Cone**

| | | | |
|---|---|---|---|
| α | = | | |
| S | = | | |
| r1 min | = | | |
| r2 | = | | |

**Collar**

| | | | |
|---|---|---|---|
| H1 | = | | |
| H2 1) | = | 9.68 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 9.02 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 20.58 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 1800 | bar |
| PK | = | 2070 | bar |
| PE | = | 2340 | bar |
| M | = | 9.00 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.30 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 17.95 | |

**Breech**

| | | | |
|---|---|---|---|
| R | = | | |
| R1 | = | 9.97 | |
| R2 | = | | |
| R3 | = | | |
| r | = | | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| E | = | 2.93 | |
| P1 1) | = | 9.93 | |
| P2 | = | | |

**Junction Cone**

| | | | |
|---|---|---|---|
| α | = | | |
| S | = | | |
| r1 max | = | | |
| r2 | = | | |

**Collar**

| | | | |
|---|---|---|---|
| H1 | = | | |
| H2 1) | = | 9.70 | |

**Commencement of Rifling**

| | | | |
|---|---|---|---|
| G1 1)* | = | 9.09 | |
| G 1)* | = | 2.58 | |
| α1 | = | 180° | |
| h | = | | |
| s | = | | |
| i 1) | = | 2°59'43" | |
| w | = | | |

**Barrel**

| | | | |
|---|---|---|---|
| F 1)* | = | 8.82 | |
| Z 1) | = | 9.02 | |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.49 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 62.61 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

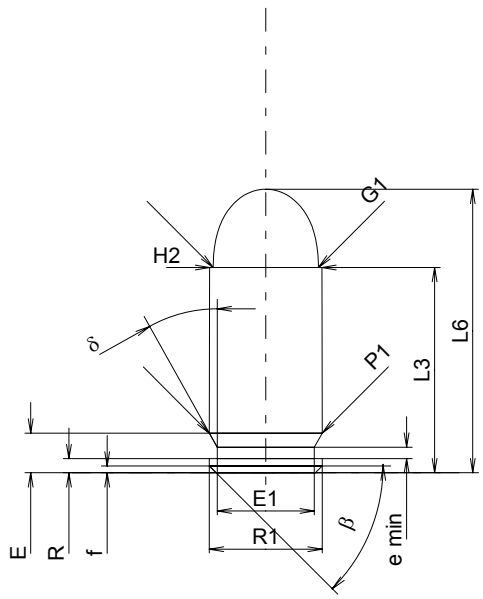
Notes: 1) Check for safety reasons
* Basic dimensions

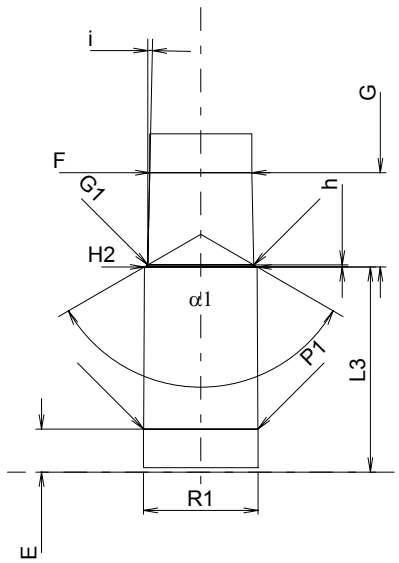
# C.I.P.

## 9 mm Makarov

Country of Origin: SU

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **91-09-20** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 18.10 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 25.00 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.25 |
| R1 | = | 9.95 |
| R3 | = | |
| E | = | 3.50 |
| E1 | = | 8.55 |
| e min | = | 1.00 |
| δ | = | 29°15' |
| f | = | 0.60 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.95 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.91 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.27 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 26.40 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1600 bar |
| PK | = | 1840 bar |
| PE | = | 2080 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 18.10 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.10 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.80 |
| P1 1) | = | 10.07 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.93 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.35 |
| G 1)* | = | 8.30 |
| α1 | = | 120° |
| h * | = | 0.17 |
| s | = | |
| i 1) | = | 1°13'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 9.00 |
| Z 1) | = | 9.27 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.50 | |
| N | = | 4 | |
| u | = | 240.00 | |
| Q | = | 66.16 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

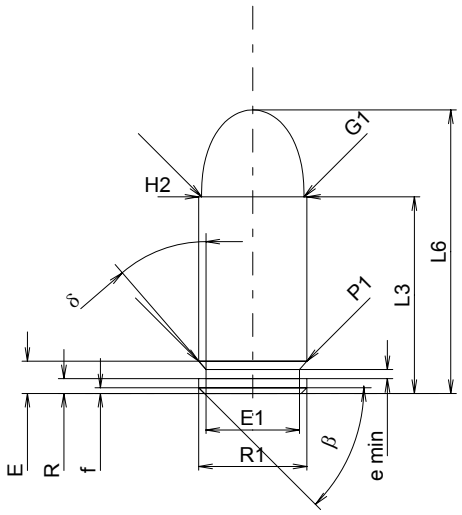
Notes: 1) Check for safety reasons
* Basic dimensions

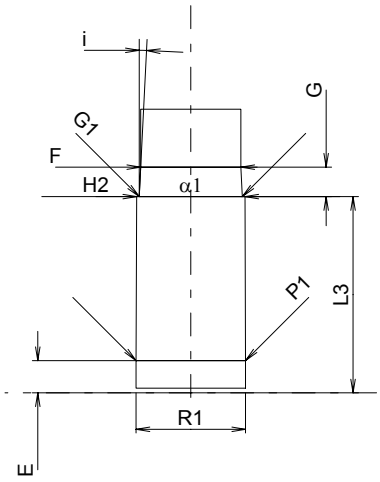
# C.I.P.

## 9 mm Browning court

Country of Origin: BE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 17.33 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 25.00 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.30 |
| R1 | = | 9.53 |
| R3 | = | |
| E | = | 2.84 |
| E1 | = | 8.25 |
| e min | = | 0.80 |
| δ | = | 40° |
| f | = | 0.50 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.53 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.53 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.04 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 19.93 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1350 bar |
| PK | = | 1553 bar |
| PE | = | 1755 bar |
| M | = | 9.00 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 17.30 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 9.66 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 2.84 |
| P1 1) | = | 9.65 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.55 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.10 |
| G 1)* | = | 2.60 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 2°51'45" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.84 |
| Z 1) | = | 9.04 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.07 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 63.26 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

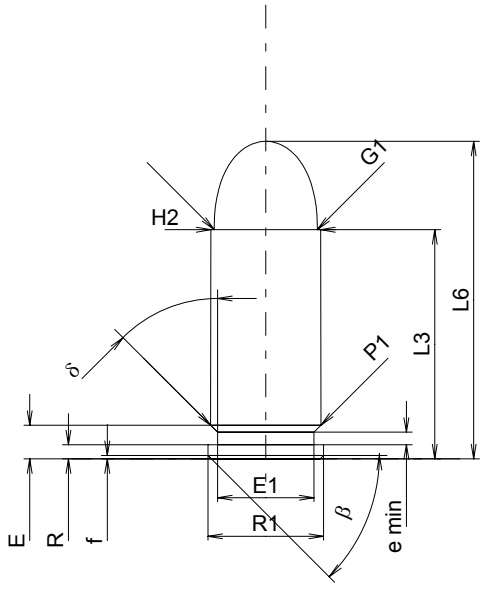
Notes: 1) Check for safety reasons
* Basic dimensions

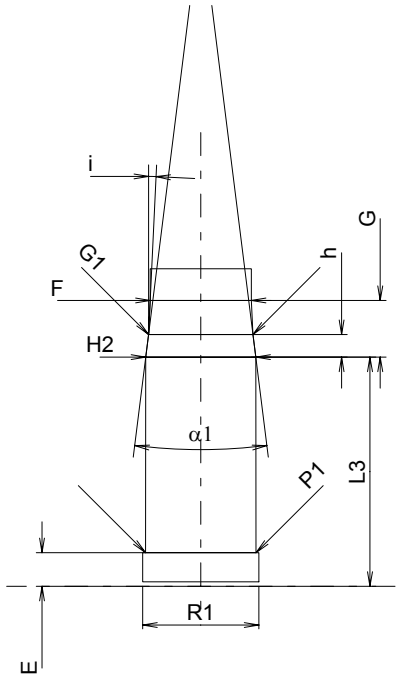
# C.I.P.

## 9 mm Browning long

Country of Origin: BE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 20.20 |
| L4 | = | |
| L5 | = | |
| L6 | = | 28.00 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.25 | -0.25 |
| R1 | = | 10.20 | |
| R3 | = | | |
| E | = | 2.96 | |
| E1 | = | 8.50 | |
| e min | = | 1.10 | |
| δ | = | 45° | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.72 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.68 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.09 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 25.20 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1650 bar |
| PK | = | 1898 bar |
| PE | = | 2145 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 20.20 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.25 |
| R1 | = | 10.25 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 2.96 |
| P1 1) | = | 9.75 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.70 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.20 |
| G 1)* | = | 5.00 |
| α1 | = | 14°15' |
| h * | = | 2.00 |
| s | = | |
| i 1) | = | 2°40'18" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.92 |
| Z 1) | = | 9.12 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.76 | |
| N | = | 6 | |
| u | = | 400.00 | |
| Q | = | 64.82 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

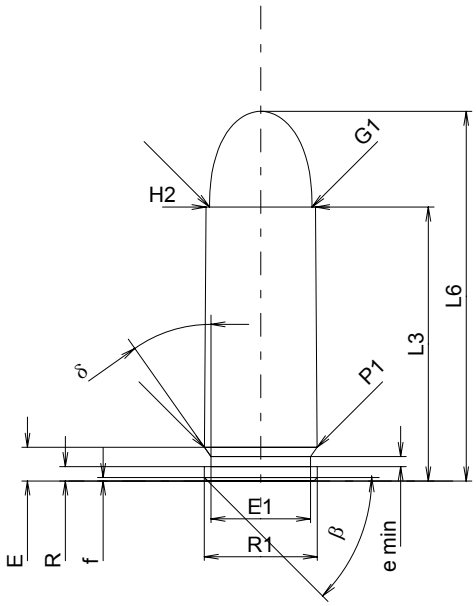
Notes: 1) Check for safety reasons
* Basic dimensions

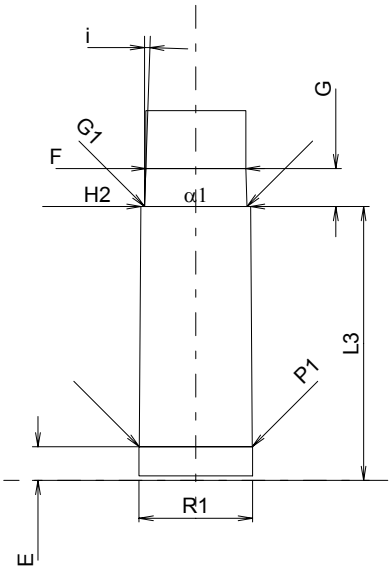
# C.I.P.

## 9 mm FAR

Country of Origin: IT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **00-09-15** |
| **Revision** | |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 24.15 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.60 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.27 |
| R1 | = | 9.96 |
| R3 | = | |
| E | = | 2.97 |
| E1 | = | 8.79 |
| e min | = | 0.89 |
| δ | = | 35° |
| f | = | 0.30 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.93 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.03 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 27.50 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2600 bar |
| PK | = | 2990 bar |
| PE | = | 3380 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 24.15 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.00 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 2.97 |
| P1 1) | = | 9.96 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.68 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.05 |
| G 1)* | = | 3.35 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 1°57'58" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.82 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.49 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 62.61 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

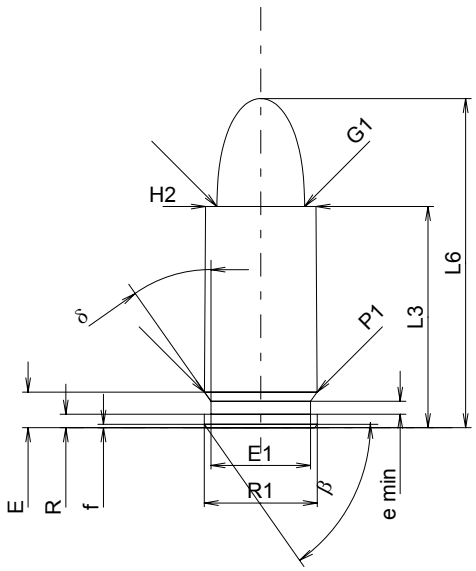
Notes: 1) Check for safety reasons
* Basic dimensions

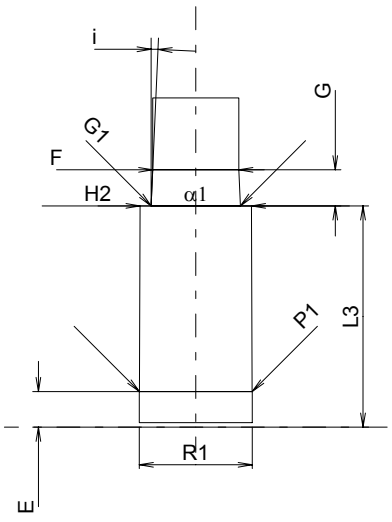
# C.I.P.

## 9 mm FX & CQT

Country of Origin: CA

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **98-01-27** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 [1)] | = | 19.51 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 29.03 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.19 |
| R1 | = | 9.96 |
| R3 | = | |
| E | = | 3.14 |
| E1 | = | 8.79 |
| e min | = | 1.14 |
| δ | = | 35° |
| f | = | 0.30 |
| β | = | 55° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.93 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 [1)] | = | 9.75 |

**Projectile**

| | | |
|---|---|---|
| G1 [1)] | = | 7.72 |
| G2 | = | |
| F | = | |
| L3+G [1)] | = | 22.69 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 350 bar |
| PK | = | 403 bar |
| PE | = | 455 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe [1)] | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | 14.00 |
| L3 [1)] | = | 19.51 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 9.96 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.14 |
| P1 [1)] | = | 9.94 |
| P2 [*] | = | 9.86 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 [1)] | = | 9.82 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 [1)*] | = | 7.87 |
| G [1)] | = | 3.18 |
| α1 [*] | = | 180° |
| h | = | |
| s | = | |
| i [1)*] | = | 2°31'14" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F [1)*] | = | 7.59 |
| Z [1)] | = | 7.81 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 1.02 | |
| N | = | 6 | |
| u | = | 254.00 | |
| Q | = | 45.92 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

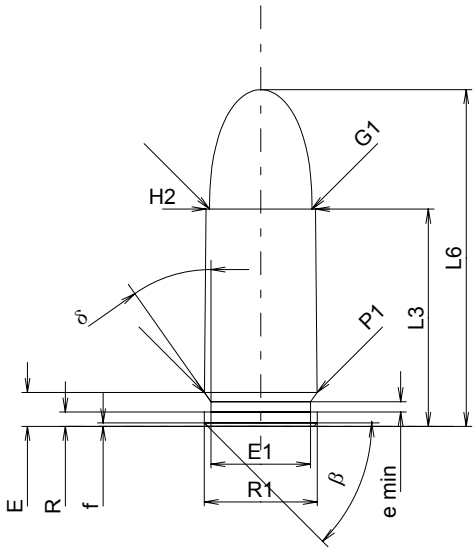
Notes: 1) Check for safety reasons
* Basic dimensions

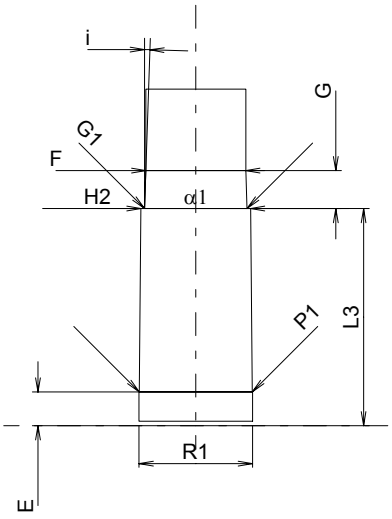
# C.I.P.

## 9 mm Luger

Country of Origin: DE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 19.15 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 29.69 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.27 |
| R1 | = | 9.96 |
| R3 | = | |
| E | = | 2.98 |
| E1 | = | 8.79 |
| e min | = | 0.90 |
| δ | = | 35° |
| f | = | 0.30 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.93 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.03 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 22.50 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2350 bar |
| PK | = | 2703 bar |
| PE | = | 3055 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 19.15 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.00 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 2.98 |
| P1 1) | = | 9.96 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.68 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.05 |
| G 1)* | = | 3.35 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 1°57'58" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.82 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.49 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 62.61 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

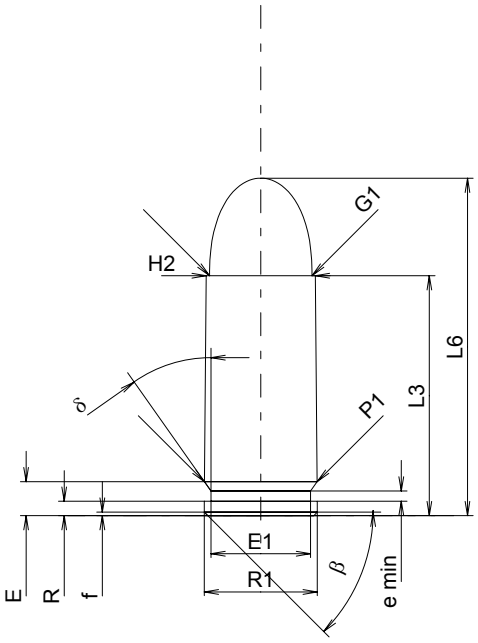
Notes: 1) Check for safety reasons
* Basic dimensions

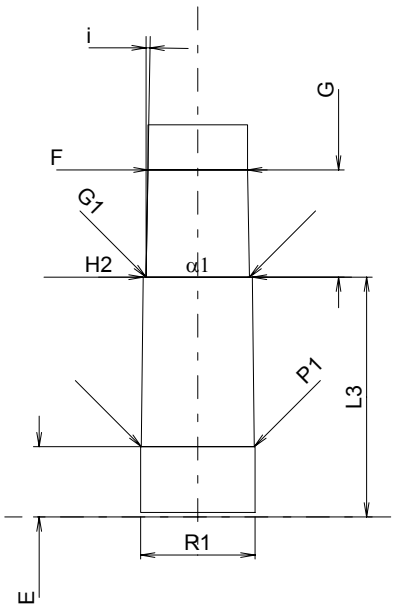
# C.I.P.

## 9 x 21

Country of Origin: IL

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 21.15 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 29.75 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.27 |
| R1 | = | 9.96 |
| R3 | = | |
| E | = | 2.98 |
| E1 | = | 8.79 |
| e min | = | 0.90 |
| δ | = | 35° |
| f | = | 0.30 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.93 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.03 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 30.60 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2350 bar |
| PK | = | 2703 bar |
| PE | = | 3055 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 21.15 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.09 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 6.20 |
| P1 1) | = | 9.96 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.64 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.12 |
| G 1) | = | 9.45 |
| α1 * | = | 180° |
| h | = | |
| s | = | |
| i 1)* | = | 1° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.03 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.80 | |
| N | = | 4 | |
| u | = | 254.00 | |
| Q | = | 62.57 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

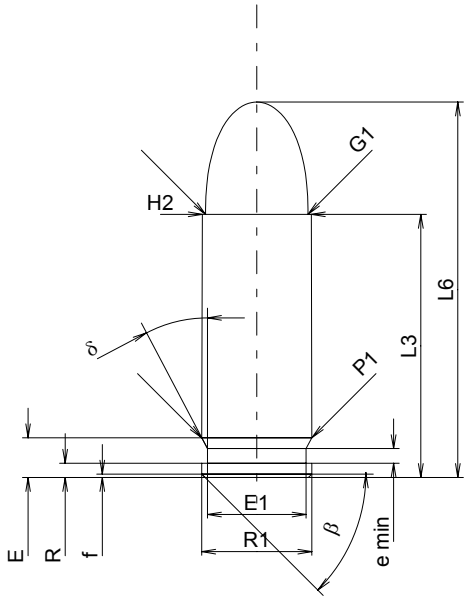
Notes: 1) Check for safety reasons
* Basic dimensions

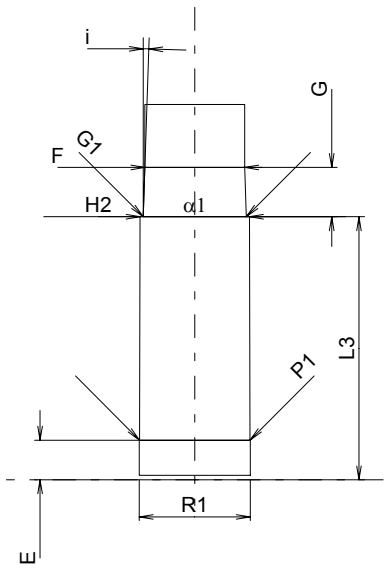
# C.I.P.

## 9 mm Steyr

Country of Origin: AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 23.20 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 33.10 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.25 |
| R1 | = | 9.70 |
| R3 | = | |
| E | = | 3.50 |
| E1 | = | 8.70 |
| e min | = | 1.30 |
| δ | = | 27°45'29" |
| f | = | 0.30 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.70 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.62 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.03 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 27.55 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1350 bar |
| PK | = | 1553 bar |
| PE | = | 1755 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.20 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 9.80 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.50 |
| P1 1) | = | 9.73 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.09 |
| G 1)* | = | 4.35 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 1°54'33" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.80 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.00 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 62.84 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

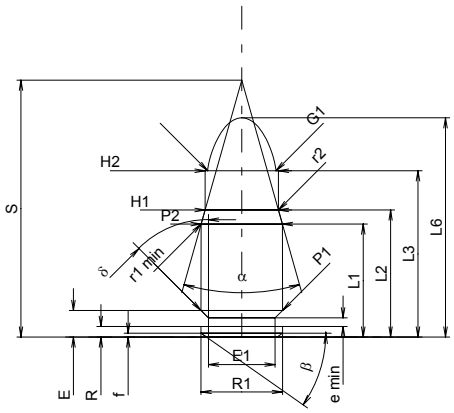
Notes: 1) Check for safety reasons
* Basic dimensions

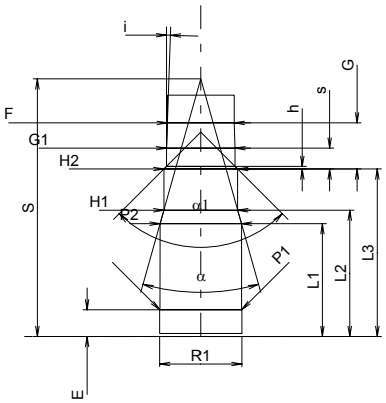
# C.I.P.

## 9 x 22 MJR

Country of Origin: AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **93-12-13** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 14.95 | -0.20 |
| L2 1)* | = | 16.81 | -0.20 |
| L3 1) | = | 22.00 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 29.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.40 | |
| R1 | = | 10.77 | |
| R3 | = | | |
| E | = | 3.52 | |
| E1 | = | 8.81 | |
| e min | = | 1.14 | |
| δ | = | 45° | |
| f | = | 0.51 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 10.77 | |
| P2 1)* | = | 10.74 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 31°31'27" |
| S | = | 33.98 |
| r1 min | = | 0.50 |
| r2 | = | 0.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.69 |
| H2 1) | = | 9.68 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.03 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 28.10 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2550 bar |
| PK | = | 2933 bar |
| PE | = | 3315 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.20 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 14.92 |
| L2 * | = | 16.70 |
| L3 1) | = | 22.15 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.88 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.52 |
| P1 1) | = | 10.82 |
| P2 * | = | 10.76 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 31°22'48" |
| S | = | 34.07 |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.76 |
| H2 1) | = | 9.75 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.05 |
| G 1)* | = | 6.10 |
| α1 | = | 90° |
| h | = | 0.35 |
| s * | = | 2.75 |
| i 1) | = | 1°57'58" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.82 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.49 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 62.61 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

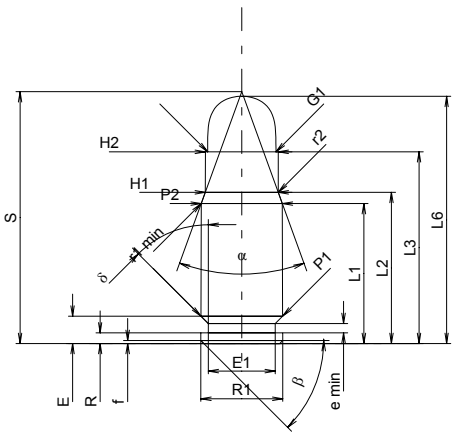
Notes: 1) Check for safety reasons
* Basic dimensions

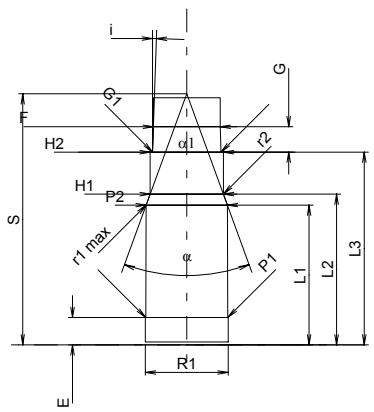
# C.I.P.

## 9 x 25 Super Auto G

Country of Origin: AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **91-05-17** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 18.51 | -0.20 |
| L2 1)* | = | 20.00 | -0.20 |
| L3 1) | = | 25.35 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.70 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.40 |
| R1 | = | 10.85 |
| R3 | = | |
| E | = | 3.62 |
| E1 | = | 8.85 |
| e min | = | 1.25 |
| δ | = | 45° |
| f | = | 0.40 |
| β | = | 45° |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 10.80 | |
| P2 1)* | = | 10.72 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 39°50'34" |
| S | = | 33.30 |
| r1 min | = | 0.50 |
| r2 | = | 0.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.64 |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.03 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 28.70 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2550 bar |
| PK | = | 2933 bar |
| PE | = | 3315 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.20 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 18.50 |
| L2 * | = | 19.94 |
| L3 1) | = | 25.50 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.95 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.62 |
| P1 1) | = | 10.86 |
| P2 * | = | 10.73 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 40°03'43" |
| S | = | 33.22 |
| r1 max | = | 0.50 |
| r2 | = | 0.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.68 |
| H2 1) | = | 9.68 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.05 |
| G 1)* | = | 3.35 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 1°58' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.82 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.49 | |
| N | = | 6 | |
| u | = | 250.00 | |
| Q | = | 62.61 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

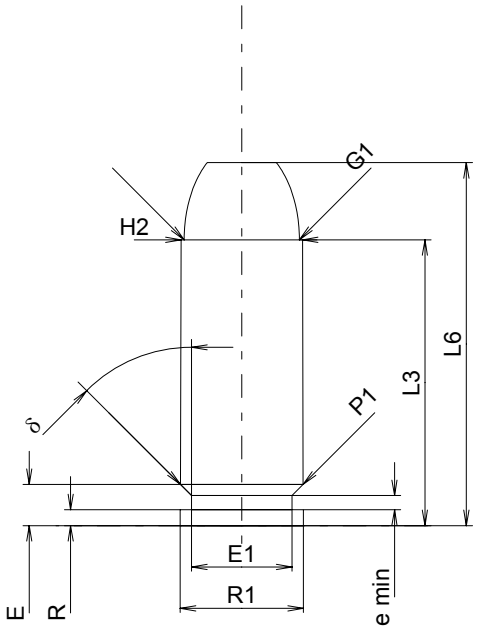
Notes: 1) Check for safety reasons
* Basic dimensions

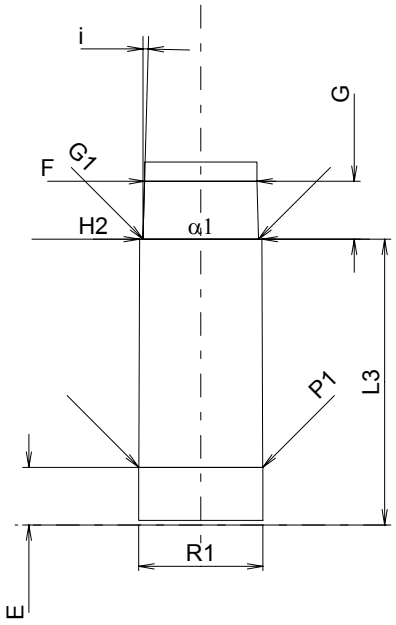
# C.I.P.

## 10 mm Auto

Country of Origin: SE

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-10-03** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 25.20 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.00 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.40 |
| R1 | = | 10.85 |
| R3 | = | |
| E | = | 3.63 |
| E1 | = | 8.85 |
| e min | = | 1.25 |
| δ | = | 45° |
| f | = | |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 10.81 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.70 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.16 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 30.30 |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 2300 | bar |
| PK | = | 2645 | bar |
| PE | = | 2990 | bar |
| M | = | 12.50 | |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 25.20 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.95 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 1) | = | 10.93 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.79 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.19 |
| G 1) | = | 5.10 |
| α1 * | = | 180° |
| h | = | |
| s | = | |
| i 1)* | = | 1°34'21" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 9.91 |
| Z 1) | = | 10.16 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.47 | |
| N | = | 5 | |
| u | = | 381.00 | |
| Q | = | 80.03 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

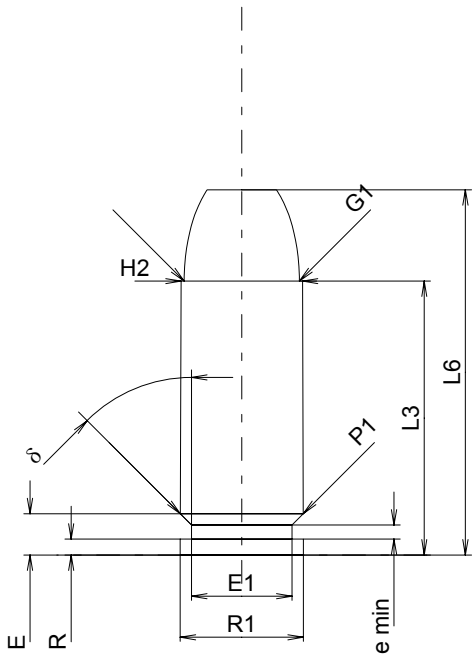
Notes: 1) Check for safety reasons
* Basic dimensions

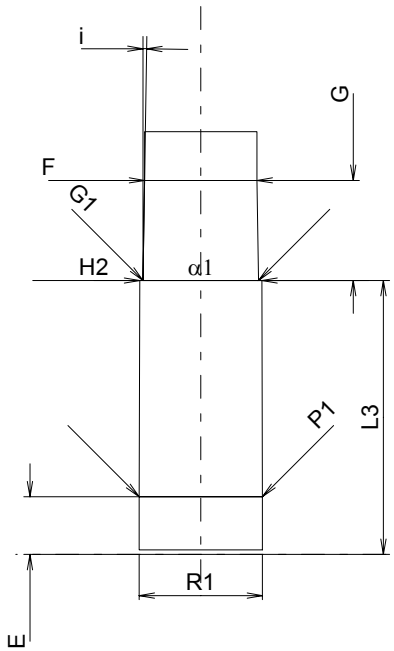
# C.I.P.

## 10 mm FAR

Country of Origin: IT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **00-09-15** |
| **Revision** | |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 24.15 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.20 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.40 |
| R1 | = | 10.85 |
| R3 | = | |
| E | = | 3.64 |
| E1 | = | 8.85 |
| e min | = | 1.25 |
| δ | = | 45° |
| f | = | |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 10.83 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.70 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.17 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 32.98 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2250 bar |
| PK | = | 2590 bar |
| PE | = | 2925 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 24.15 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.88 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 1) | = | 10.86 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.77 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.19 |
| G 1)* | = | 8.83 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 0°54'29" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 9.91 |
| Z 1) | = | 10.17 |

**Grooves**

| | | |
|---|---|---|
| b | = | 3.05 |
| N | = | 6 |
| u | = | 406.00 |
| Q | = | 79.55 mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

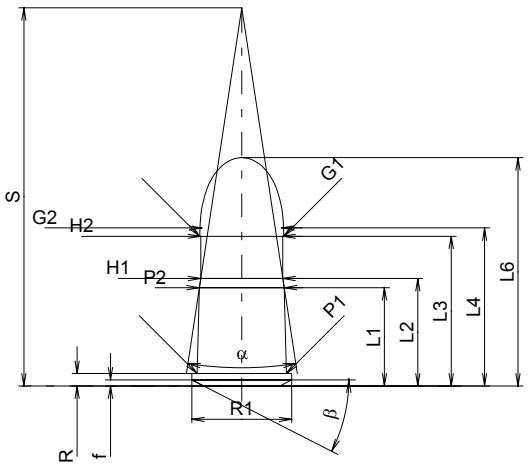
Notes: 1) Check for safety reasons
* Basic dimensions

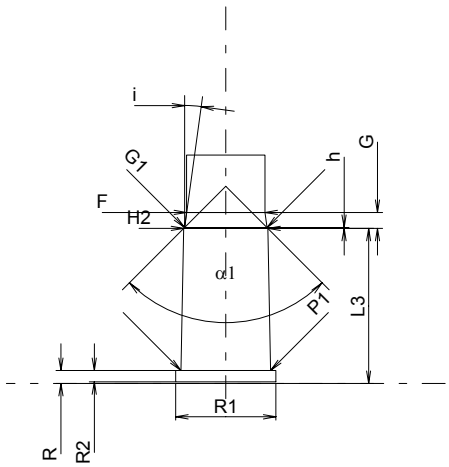
# C.I.P.

## 10,40 Ord. It.

Country of Origin: IT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 13.00 |
| L2 * | = | 14.22 |
| L3 1) | = | 19.80 |
| L4 | = | 20.90 |
| L5 | = | |
| L6 | = | 30.20 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.65 | -0.25 |
| R1 | = | 13.20 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.80 | |
| β | = | 27° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.80 |
| P2 * | = | 11.23 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 17°14'43" |
| S | = | 50.03 |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 10.86 |
| H2 1) | = | 10.86 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.10 |
| G2 | = | 10.55 |
| F | = | |
| L1+G 1) | = | 21.91 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 630 bar |
| PK | = | 725 bar |
| PE | = | 819 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 20.50 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.70 |
| R1 | = | 13.25 |
| R2 | = | 1.50 |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.85 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.13 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.90 |
| G 1)* | = | 2.11 |
| α1 | = | 90° |
| h * | = | 0.11 |
| s | = | |
| i 1) | = | 7°49'45" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.35 |
| Z 1) | = | 10.75 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.00 | |
| N | = | 4 | |
| u | = | 250.00 | |
| Q | = | 87.42 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

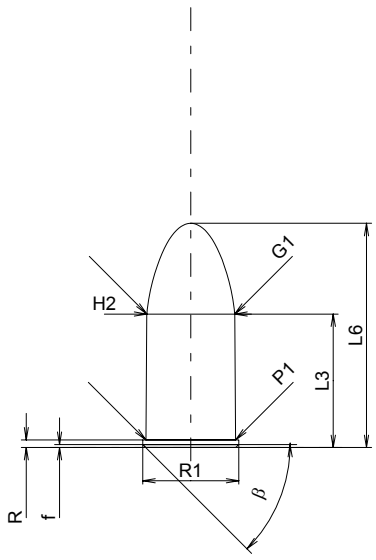
Notes: 1) Check for safety reasons
* Basic dimensions

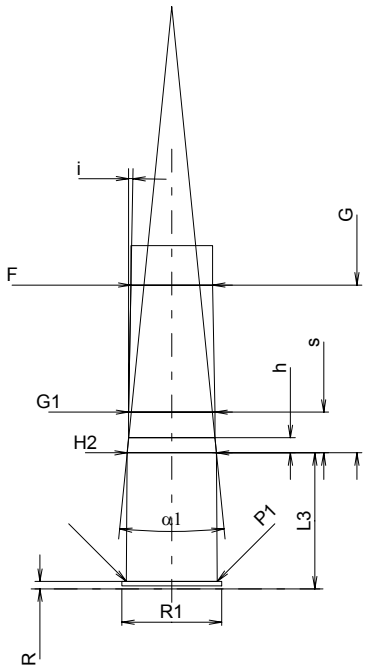
# C.I.P.

## 11 mm 73

Country of Origin: FR

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **02-01-22** |
| **Revision** | |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 17.65 |
| L4 | = | |
| L5 | = | |
| L6 | = | 29.65 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.00 | -0.25 |
| R1 | = | 12.70 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.85 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.65 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.60 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 39.83 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1150 bar |
| PK | = | 1323 bar |
| PE | = | 1495 bar |
| M | = | 19.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 18.00 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.00 |
| R1 | = | 13.20 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.00 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.80 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.40 |
| G 1)* | = | 22.18 |
| α1 | = | 11°25'16" |
| h | = | 2.00 |
| s * | = | 5.38 |
| i 1) | = | 1°01'23" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.80 |
| Z 1) | = | 11.20 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.30 | |
| N | = | 4 | |
| u | = | 350.00 | |
| Q | = | 95.14 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

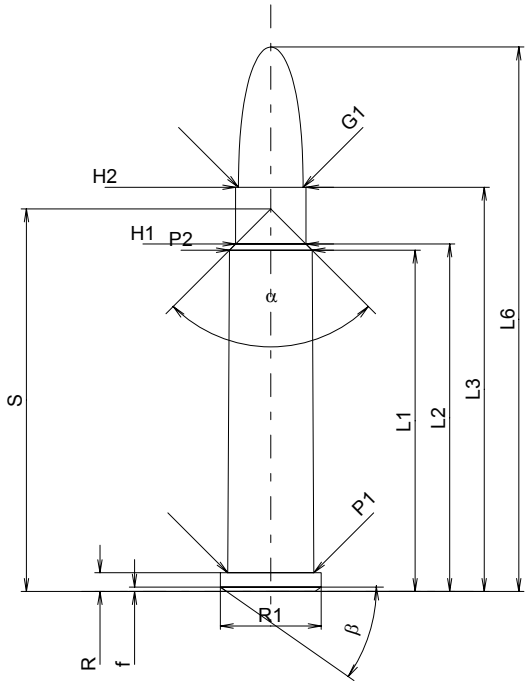
Notes: 1) Check for safety reasons
* Basic dimensions

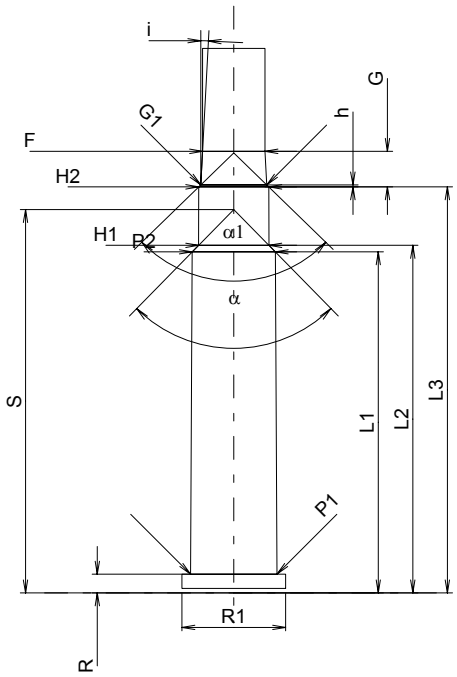
# C.I.P.

## 22 Picra

Country of Origin: CZ

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **99-03-15** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 30.09 | -0.20 |
| L2 1)* | = | 30.64 | -0.20 |
| L3 1) | = | 35.64 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 48.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.65 | |
| R1 | = | 8.89 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 7.59 | |
| P2 1)* | = | 7.29 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 90° |
| S | = | 33.73 |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 6.19 |
| H2 1) | = | 6.19 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 5.70 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 38.77 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3200 bar |
| PK | = | 3680 bar |
| PE | = | 4160 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.15 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 30.07 |
| L2 * | = | 30.64 |
| L3 1) | = | 35.80 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.65 |
| R1 | = | 9.14 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 7.62 |
| P2 * | = | 7.32 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 88°59'09" |
| S | = | 33.80 |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 6.20 |
| H2 1) | = | 6.17 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 5.82 |
| G 1)* | = | 3.13 |
| α1 | = | 91°39'38" |
| h | = | 0.17 |
| s | = | |
| i 1) | = | 2°59'51" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 5.51 |
| Z 1) | = | 5.64 |

**Grooves**

| | | |
|---|---|---|
| b | = | 1.73 |
| N | = | 6 |
| u | = | 406.00 |
| Q | = | 24.53 mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

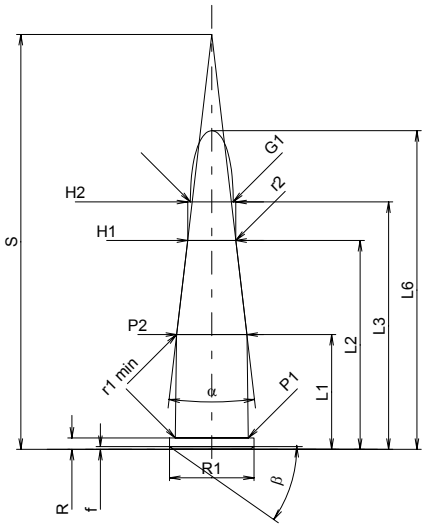
Notes: 1) Check for safety reasons
* Basic dimensions

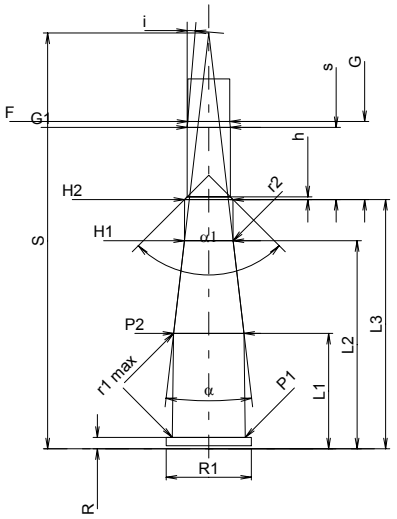
# C.I.P.

## 22 Rem. Jet Mag.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | 15.19 | |
| L2 | = | 27.62 | |
| L3 1) | = | 32.72 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 42.14 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.50 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.65 |
| P2 * | = | 9.29 |

**Junction Cone**

| | | |
|---|---|---|
| α * | = | 13°21' |
| S * | = | 54.88 |
| r1 min | = | 0.76 |
| r2 | = | 2.54 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 6.38 |
| H2 1) | = | 6.38 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 5.65 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 43.03 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2550 bar |
| PK | = | 2933 bar |
| PE | = | 3315 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | 15.26 |
| L2 | = | 27.52 |
| L3 1) | = | 32.97 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.65 |
| P2 * | = | 9.30 |

**Junction Cone**

| | | |
|---|---|---|
| α * | = | 13°21' |
| S * | = | 54.99 |
| r1 max | = | 0.76 |
| r2 | = | 3.18 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 6.43 |
| H2 1) | = | 6.40 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 5.69 |
| G 1) | = | 10.31 |
| α1 * | = | 90° |
| h | = | 0.35 |
| s | = | 9.53 |
| i 1)* | = | 4°45' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 5.56 |
| Z 1) | = | 5.65 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 1.80 | |
| N | = | 6 | |
| u | = | 381.00 | |
| Q | = | 24.77 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

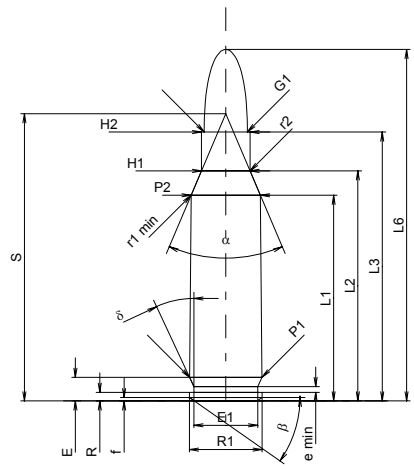
Notes: 1) Check for safety reasons
* Basic dimensions

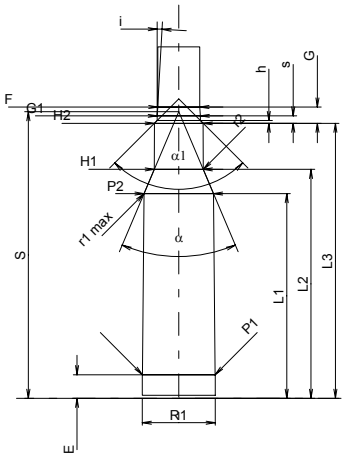
# C.I.P.

## 221 Rem. Fireball

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1) | = | 27.20 | -0.20 |
| L2 1) | = | 30.42 | -0.20 |
| L3 1) | = | 35.56 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 46.48 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.14 | |
| R1 | = | 9.60 | |
| R3 | = | | |
| E | = | 3.13 | |
| E1 | = | 8.43 | |
| e min | = | 0.76 | |
| δ | = | 25° | |
| f | = | 0.45 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.58 | |
| P2 1)* | = | 9.162 | -0.20 |

**Junction Cone**

| | | | |
|---|---|---|---|
| α * | = | 46° | |
| S * | = | 37.98 | |
| r1 min | = | 0.64 | |
| r2 | = | 2.54 | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 6.43 | |
| H2 1) | = | 6.43 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 5.70 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 37.72 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 3200 | bar |
| PK | = | 3680 | bar |
| PE | = | 4160 | bar |
| M | = | 17.50 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.15 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | 27.08 |
| L2 | = | 30.28 |
| L3 1) | = | 36.37 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 9.65 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.13 |
| P1 1) | = | 9.61 |
| P2 * | = | 9.19 |

**Junction Cone**

| | | |
|---|---|---|
| α 1)* | = | 46° |
| S * | = | 37.91 |
| r1 max | = | 0.64 |
| r2 | = | 3.18 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 6.48 |
| H2 1) | = | 6.45 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 5.69 |
| G 1) | = | 2.16 |
| α1 * | = | 90° |
| h | = | 0.38 |
| s | = | 0.99 |
| i 1)* | = | 3°10'48" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 5.56 |
| Z 1) | = | 5.69 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.03 | |
| N | = | 6 | |
| u | = | 305.00 | |
| Q | = | 25.09 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

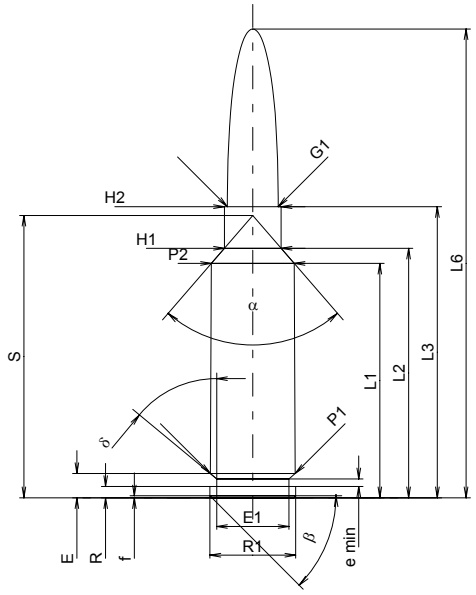
Notes: 1) Check for safety reasons
* Basic dimensions

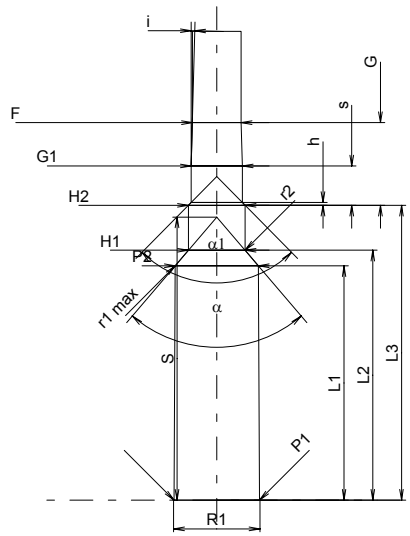
# C.I.P.

## 260 PICRA

Country of Origin: CZ

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **99-03-15** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 31.00 | -0.20 |
| L2 1)* | = | 33.00 | -0.20 |
| L3 1) | = | 38.50 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 62.00 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.50 |
| R1 | = | 11.35 |
| R3 | = | |
| E | = | 3.20 |
| E1 | = | 9.56 |
| e min | = | 1.00 |
| δ | = | 50°21'41" |
| f | = | 0.25 |
| β | = | 45° |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 11.25 | |
| P2 1)* | = | 10.96 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 81°43'09" |
| S | = | 37.34 |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 7.50 |
| H2 1) | = | 7.50 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 6.71 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 49.43 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3900 bar |
| PK | = | 4485 bar |
| PE | = | 5070 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.10 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 31.00 |
| L2 * | = | 33.05 |
| L3 1) | = | 39.00 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 11.40 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.30 |
| P2 * | = | 11.00 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 80°58'19" |
| S | = | 37.44 |
| r1 max | = | 0.50 |
| r2 | = | 1.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 7.50 |
| H2 1) | = | 7.50 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 6.75 |
| G 1)* | = | 10.93 |
| α1 | = | 89°14'28" |
| h | = | 0.38 |
| s * | = | 5.20 |
| i 1) | = | 1°29'57" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 6.45 |
| Z 1) | = | 6.70 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.50 | |
| N | = | 4 | |
| u | = | 200.00 | |
| Q | = | 34.52 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

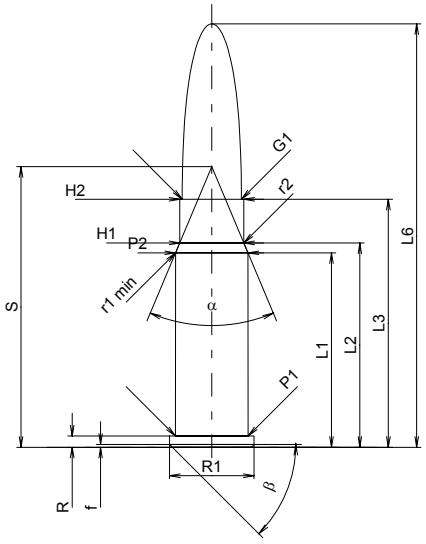
Notes: 1) Check for safety reasons
* Basic dimensions

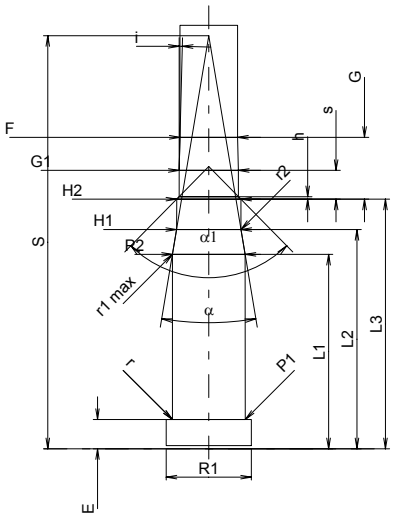
# C.I.P.

## 30 PICRA

Country of Origin: CZ

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **99-04-20** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 25.72 | -0.20 |
| L2 1)* | = | 27.03 | -0.20 |
| L3 1) | = | 32.80 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 56.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.50 | |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 45° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.60 | |
| P2 1)* | = | 9.57 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 45°33' |
| S | = | 37.12 |
| r1 min | = | 0.76 |
| r2 | = | 2.54 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.47 |
| H2 1) | = | 8.47 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.82 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 40.99 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2800 bar |
| PK | = | 3220 bar |
| PE | = | 3640 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.15 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 25.70 |
| L2 * | = | 28.98 |
| L3 1) | = | 33.00 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | 0.20 |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.85 |
| P1 1) | = | 9.63 |
| P2 * | = | 9.61 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 18°52'04" |
| S | = | 54.62 |
| r1 max | = | 0.50 |
| r2 | = | 0.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.52 |
| H2 1) | = | 8.50 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.85 |
| G 1)* | = | 8.19 |
| α1 | = | 89°07'31" |
| h | = | 0.33 |
| s * | = | 3.80 |
| i 1) | = | 1°30'02" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.62 |
| Z 1) | = | 7.82 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.49 | |
| N | = | 4 | |
| u | = | 254.00 | |
| Q | = | 47.52 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

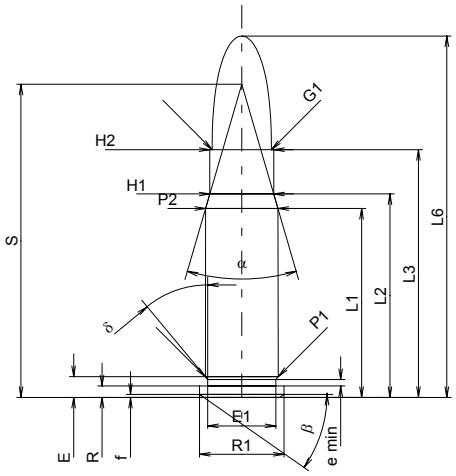
Notes: 1) Check for safety reasons
* Basic dimensions

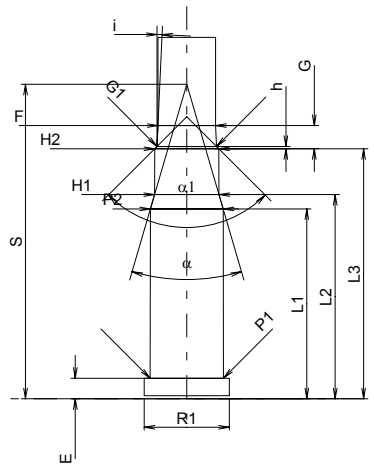
# C.I.P.

## 30-357 AeT

Country of Origin: IT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **00-09-12** |
| **Revision** | **02-05-15** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1)* | = | 24.98 | -0.20 |
| L2 1)* | = | 26.90 | -0.20 |
| L3 1) | = | 32.77 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 47.80 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.52 | |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | 2.74 | |
| E1 | = | 9.00 | |
| e min | = | 0.84 | |
| δ | = | 40° | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.63 | |
| P2 1)* | = | 9.58 | -0.20 |

**Junction Cone**

| | | |
|---|---|---|
| α | = | 32°31'13" |
| S | = | 41.40 |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.46 |
| H2 1) | = | 8.46 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.85 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 35.84 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3000 bar |
| PK | = | 3450 bar |
| PE | = | 3900 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.15 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 * | = | 25.11 |
| L2 * | = | 27.01 |
| L3 1) | = | 33.07 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 2.72 |
| P1 1) | = | 9.68 |
| P2 * | = | 9.63 |

**Junction Cone**

| | | |
|---|---|---|
| α 1) | = | 32°34'01" |
| S | = | 41.59 |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 8.52 |
| H2 1) | = | 8.49 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.87 |
| G 1)* | = | 3.07 |
| α1 | = | 90° |
| h * | = | 0.31 |
| s | = | |
| i 1) | = | 2°35'35" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.62 |
| Z 1) | = | 7.82 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.24 | |
| N | = | 4 | |
| u | = | 304.80 | |
| Q | = | 47.67 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

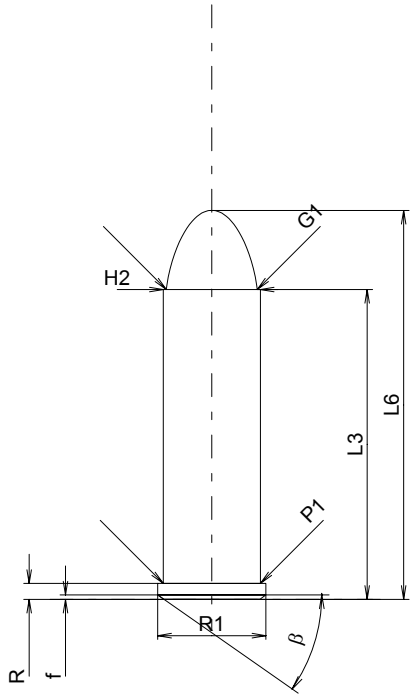
Notes: 1) Check for safety reasons
* Basic dimensions

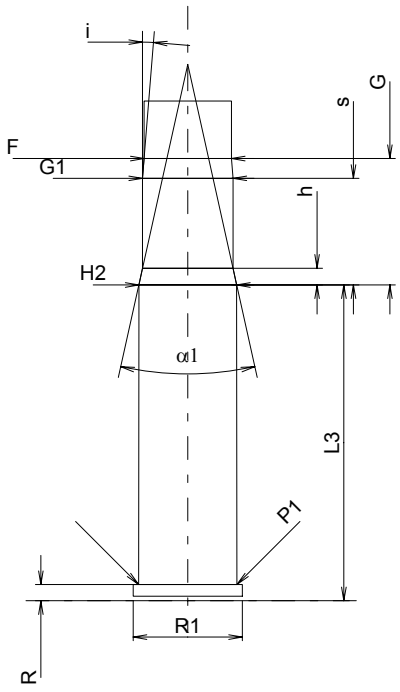
# C.I.P.

## 32 H.& R. Mag.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **86-02-25** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 27.31 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 34.29 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.40 | -0.25 |
| R1 | = | 9.53 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.56 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.56 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.00 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 38.45 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1400 bar |
| PK | = | 1610 bar |
| PE | = | 1820 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 27.84 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.42 |
| R1 | = | 9.63 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.67 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.62 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.98 |
| G 1) | = | 11.14 |
| α1 * | = | 25° |
| h | = | 1.47 |
| s | = | 9.40 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.70 |
| Z 1) | = | 7.92 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.41 | |
| N | = | 5 | |
| u | = | 406.00 | |
| Q | = | 47.91 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

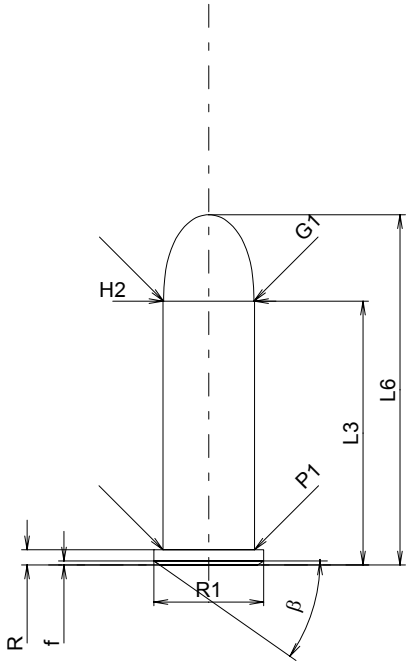
Notes: 1) Check for safety reasons
* Basic dimensions

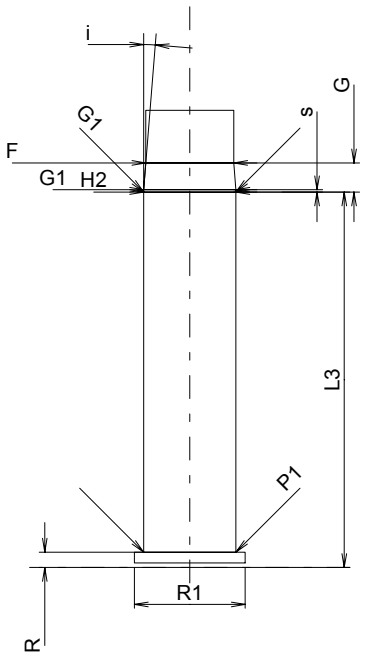
# C.I.P.

## 32 Long Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.27 |
| L4 | = | |
| L5 | = | |
| L6 | = | 30.89 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.35 | -0.25 |
| R1 | = | 9.68 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.36 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.08 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.08 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.97 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 25.84 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 33.10 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.35 |
| R1 | = | 9.78 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.13 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.13 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.13 |
| G 1) | = | 2.57 |
| α1 * | = | 180° |
| h | = | |
| s | = | 0.20 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.75 |
| Z 1) | = | 7.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 48.39 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

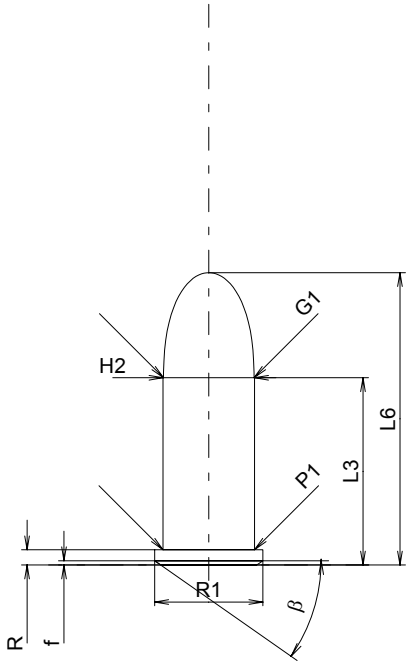
Notes: 1) Check for safety reasons
* Basic dimensions

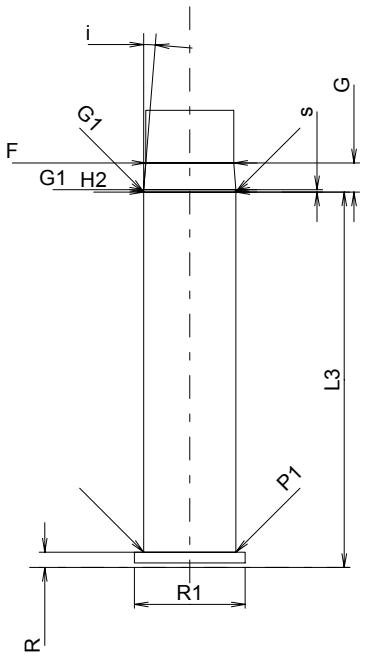
# C.I.P.

## 32 Short Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 16.51 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 25.78 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.35 | -0.25 |
| R1 | = | 9.53 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.08 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.08 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 7.98 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 19.08 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 9.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 33.10 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.35 |
| R1 | = | 9.78 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.13 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.13 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.13 |
| G 1) | = | 2.57 |
| α1 * | = | 180° |
| h | = | |
| s | = | 0.20 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.75 |
| Z 1) | = | 7.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 48.39 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

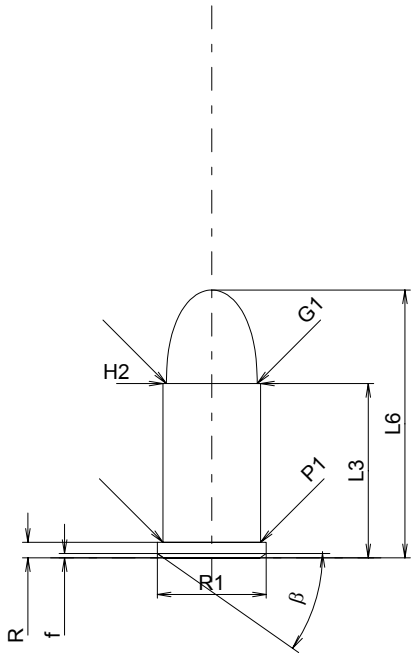
Notes: 1) Check for safety reasons
* Basic dimensions

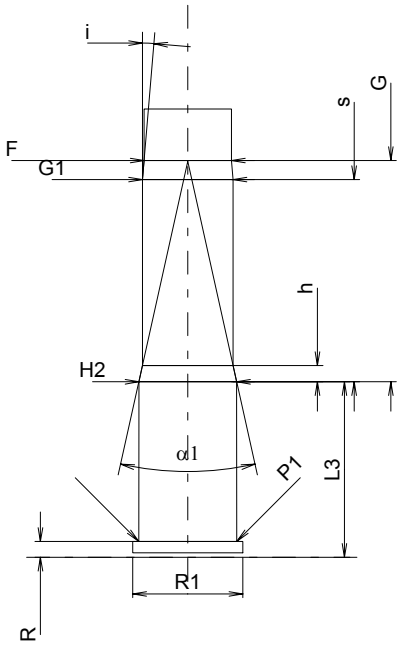
# C.I.P.

## 32 S.& W.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 15.37 |
| L4 | = | |
| L5 | = | |
| L6 | = | 23.62 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.37 | -0.25 |
| R1 | = | 9.60 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.61 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.61 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.00 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 34.88 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 900 bar |
| PK | = | 1035 bar |
| PE | = | 1170 bar |
| M | = | 8.00 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 15.47 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.40 |
| R1 | = | 9.70 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.64 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.62 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.98 |
| G 1) | = | 19.51 |
| α1 * | = | 25° |
| h | = | 1.44 |
| s | = | 17.83 |
| i 1)* | = | 4°45' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.70 |
| Z 1) | = | 7.92 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.41 | |
| N | = | 5 | |
| u | = | 476.00 | |
| Q | = | 47.91 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

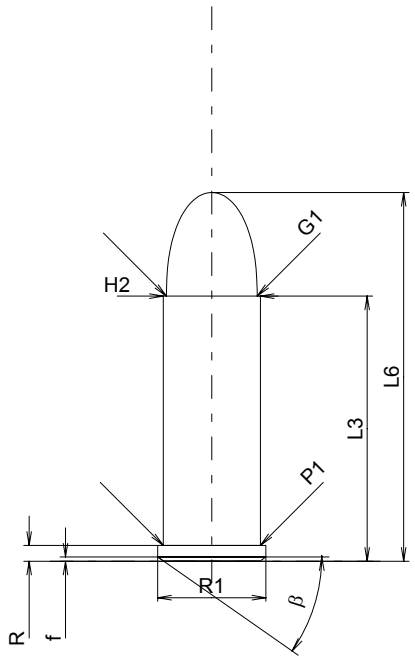
Notes: 1) Check for safety reasons
* Basic dimensions

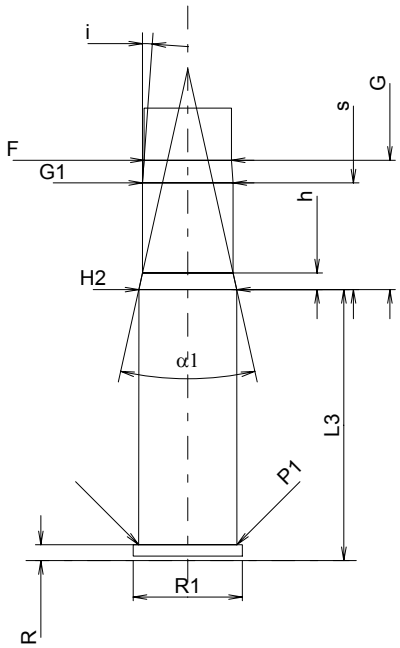
# C.I.P.

## 32 S&W Long N.P

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 23.37 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.51 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.40 | -0.25 |
| R1 | = | 9.53 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.56 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.56 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.00 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 34.81 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.90 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.40 |
| R1 | = | 9.63 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.67 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.63 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.98 |
| G 1) | = | 11.41 |
| α1 * | = | 25° |
| h | = | 1.47 |
| s | = | 9.40 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.70 |
| Z 1) | = | 7.92 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.41 | |
| N | = | 5 | |
| u | = | 476.00 | |
| Q | = | 47.91 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

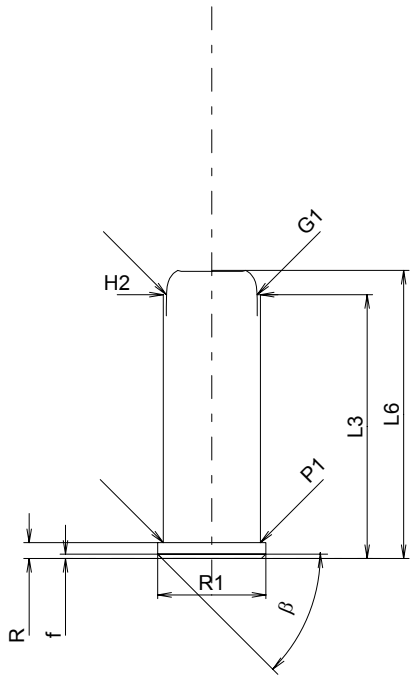
Notes: 1) Check for safety reasons
* Basic dimensions

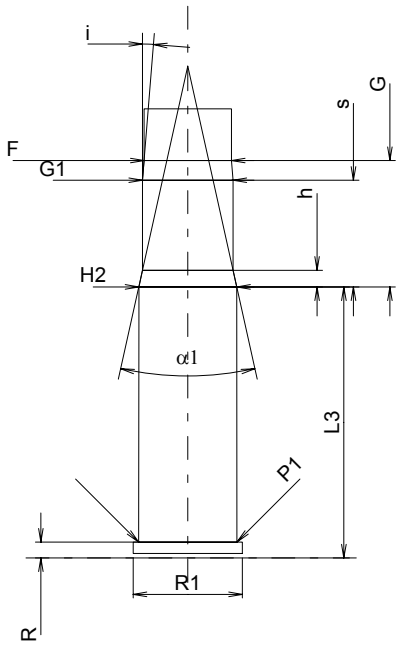
# C.I.P.

## 32 S.& W. Long Wad Cut.

Country of Origin: DE/FI

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 23.27 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 25.40 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.40 | -0.25 |
| R1 | = | 9.53 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.56 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.56 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.00 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 34.41 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1550 bar |
| PK | = | 1783 bar |
| PE | = | 2015 bar |
| M | = | 8.00 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.90 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.40 |
| R1 | = | 9.63 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.67 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.63 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.98 |
| G 1)* | = | 11.14 |
| α1 | = | 25° |
| h | = | 1.47 |
| s * | = | 9.40 |
| i 1) | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.70 |
| Z 1) | = | 7.92 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.41 | |
| N | = | 5 | |
| u | = | 476.00 | |
| Q | = | 47.64 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

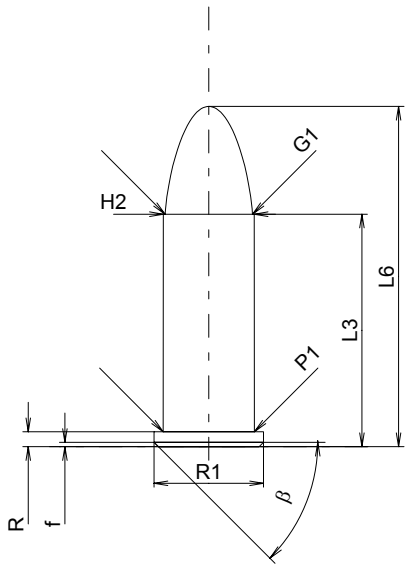
Notes: 1) Check for safety reasons
* Basic dimensions

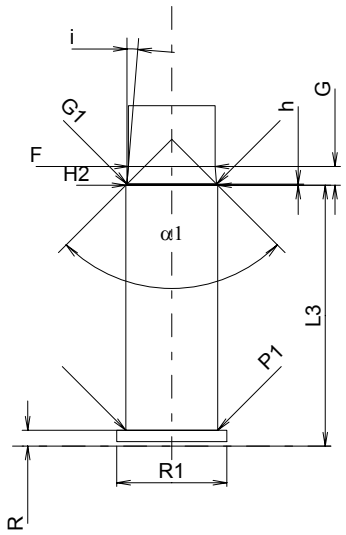
# C.I.P.

## 320 Long

Country of Origin: GB

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

| CARTRIDGE MAXI | | | | CHAMBER MINI | | | |
|---|---|---|---|---|---|---|---|
| **Lengths** | | | | **Lengths** | | | |
| L1 | = | | | L1 | = | | +0.381 |
| L2 | = | | | L2 | = | | +0.381 |
| L3 1) | = | 20.50 | | L3 1) | = | 23.00 | +0.381 |
| L4 | = | | | | | | |
| L5 | = | | | | | | |
| L6 | = | 30.00 | | | | | |
| **Case Head** | | | | **Breech** | | | |
| R 1) | = | 1.32 | -0.25 | R 1) | = | 1.40 | |
| R1 | = | 9.65 | | R1 | = | 9.70 | +0.051 |
| R3 | = | | | R2 | = | | |
| E | = | | | R3 | = | | |
| E1 | = | | | r | = | | |
| e min | = | | | | | | |
| δ | = | | | | | | |
| f | = | 0.38 | | | | | |
| β | = | 45° | | | | | |
| **Powder Chamber** | | | | **Powder Chamber** | | | |
| | | | | E | = | | |
| P1 | = | 8.05 | | P1 1) | = | 8.10 | |
| P2 | = | | | P2 | = | | |
| **Junction Cone** | | | | **Junction Cone** | | | |
| α | = | | | α | = | | |
| S | = | | | S | = | | |
| r1 min | = | | | r1 max | = | | |
| r2 | = | | | r2 | = | | +0.762 |
| **Collar** | | | | **Collar** | | | |
| H1 | = | | | H1 | = | | +0.051 |
| H2 1) | = | 8.00 | | H2 1) | = | 8.10 | +0.051 |
| **Projectile** | | | | **Commencement of Rifling** | | | |
| G1 1) | = | 7.70 | | G1 1)* | = | 7.90 | +0.051 |
| G2 | = | | | G 1)* | = | 1.66 | |
| F | = | | | α1 | = | 90° | |
| L3+G 1) | = | 22.16 | | h * | = | 0.10 | |
| | | | | s | = | | |
| **Pressures (Energies)** | | | | i 1) | = | 4°34'59" | |
| **Method Transducer** | | | | w | = | | |
| Pmax | = | 1000 bar | | **Barrel** | | | |
| PK | = | 1150 bar | | F 1)* | = | 7.65 | |
| PE | = | 1300 bar | | Z 1) | = | 7.90 | |
| M | = | 12.50 | | **Grooves** | | | |
| | | | | b | = | 2.70 | +0.051 |
| | | | | N | = | 6 | |
| | | | | u | = | 450.00 | |
| | | | | Q | = | 48.03 | mm² |
| **Miscellaneous Dimensions** | | | | | | | |
| Fe 1) | = | 0.25 | | | | | |
| delta L | = | | | | | | |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

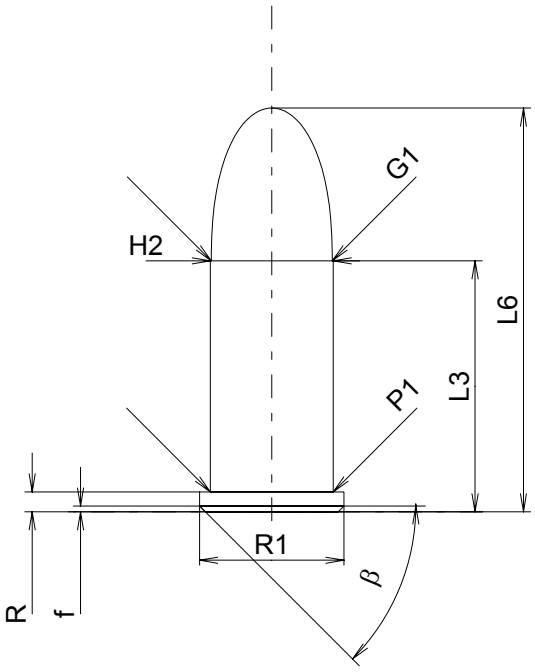
Notes: 1) Check for safety reasons
* Basic dimensions

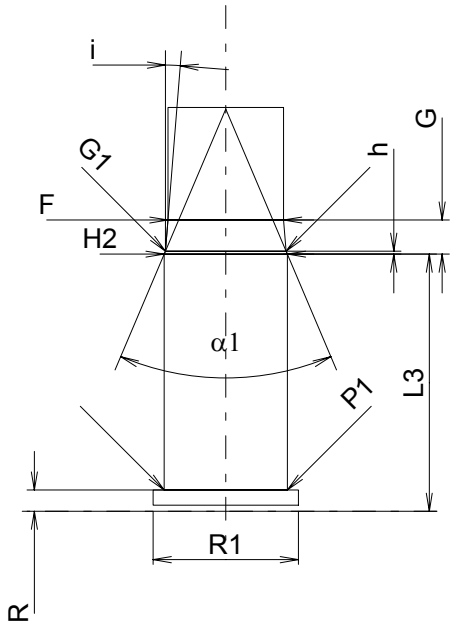
# C.I.P.

## 320 Short

Country of Origin: GB

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 2:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 16.60 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 26.70 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.32 | -0.25 |
| R1 | = | 9.55 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 8.12 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.12 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.00 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 18.86 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1200 bar |
| PK | = | 1380 bar |
| PE | = | 1560 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 17.00 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.40 |
| R1 | = | 9.60 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 8.15 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 8.15 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 7.98 |
| G 1)* | = | 2.26 |
| α1 | = | 46° |
| h * | = | 0.20 |
| s | = | |
| i 1) | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 7.65 |
| Z 1) | = | 7.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.70 | |
| N | = | 6 | |
| u | = | 450.00 | |
| Q | = | 48.03 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

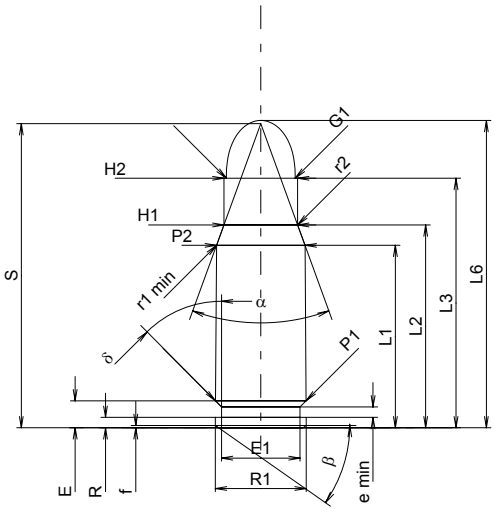
Notes: 1) Check for safety reasons
* Basic dimensions

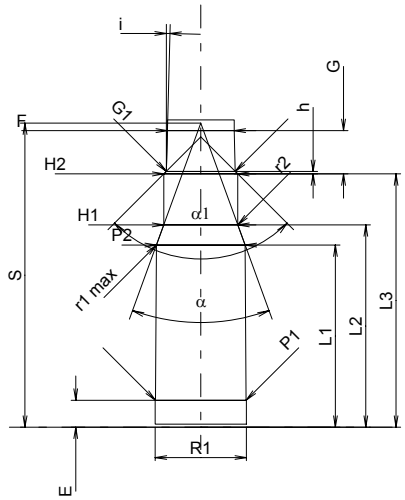
# C.I.P.

## 357 Auto Mag.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1) | = | 24.13 | -0.20 |
| L2 1) | = | 26.83 | -0.20 |
| L3 1) | = | 33.00 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.65 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.37 | |
| R1 | = | 12.01 | |
| R3 | = | | |
| E | = | 3.56 | |
| E1 | = | 10.40 | |
| e min | = | 1.40 | |
| δ | = | 45° | |
| f | = | 0.30 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 11.97 | |
| P2 1)* | = | 11.71 | -0.20 |

**Junction Cone**

| | | | |
|---|---|---|---|
| α * | = | 40° | |
| S * | = | 40.22 | |
| r1 min | = | 1.00 | |
| r2 | = | 3.20 | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 9.75 | |
| H2 1) | = | 9.75 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 9.12 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 38.73 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 2550 | bar |
| PK | = | 2933 | bar |
| PE | = | 3315 | bar |
| M | = | 17.50 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.15 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | 24.09 |
| L2 | = | 26.76 |
| L3 1) | = | 33.50 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.37 |
| R1 | = | 12.04 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.56 |
| P1 1) | = | 11.99 |
| P2 * | = | 11.74 |

**Junction Cone**

| | | |
|---|---|---|
| α 1)* | = | 40° |
| S * | = | 40.22 |
| r1 max | = | 1.00 |
| r2 | = | 3.20 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.80 |
| H2 1) | = | 9.78 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.13 |
| G 1) | = | 5.73 |
| α1 * | = | 90° |
| h | = | 0.32 |
| s | = | |
| i 1)* | = | 1°32'17" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.84 |
| Z 1) | = | 9.09 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 6 | |
| u | = | 457.00 | |
| Q | = | 63.42 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

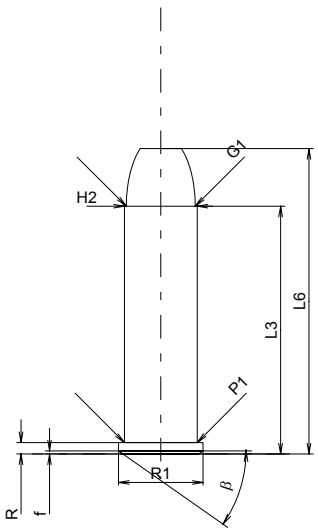
Notes: 1) Check for safety reasons
* Basic dimensions

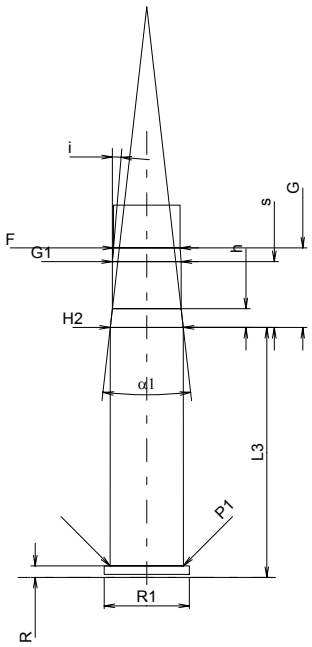
# C.I.P.

## 357 Magnum

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 32.77 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.39 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.12 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 43.27 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3000 bar |
| PK | = | 3450 bar |
| PE | = | 3900 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 33.07 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.68 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.09 |
| G 1) | = | 10.50 |
| α1 * | = | 12°59'12" |
| h | = | 2.46 |
| s | = | 8.69 |
| i 1)* | = | 4°45' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 9 | |
| u | = | 476.00 | |
| Q | = | 62.57 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

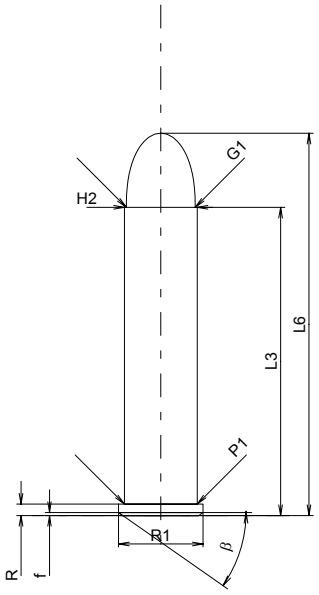
Notes: 1) Check for safety reasons
* Basic dimensions

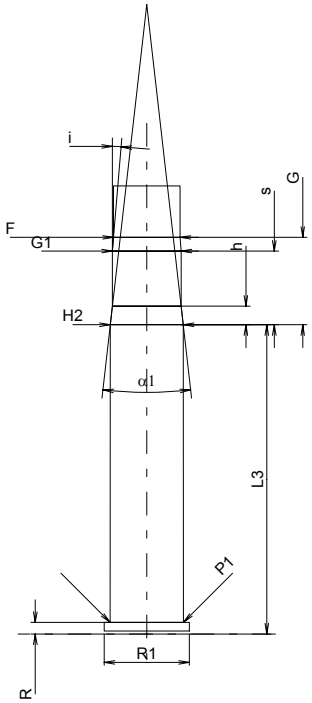
# C.I.P.

## 357 Maximum

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 40.77 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 50.55 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.12 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 52.33 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3100 bar |
| PK | = | 3565 bar |
| PE | = | 4040 bar |
| M | = | 25.00 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 40.89 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.68 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.09 |
| G 1) | = | 11.56 |
| α1 * | = | 13° |
| h | = | 2.46 |
| s | = | 9.75 |
| i 1)* | = | 4°45' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 6 | |
| u | = | 476.00 | |
| Q | = | 62.57 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

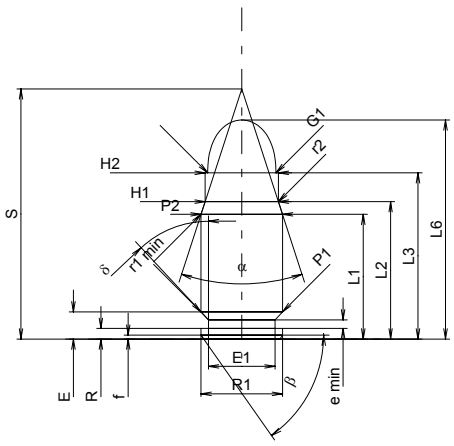
Notes: 1) Check for safety reasons
* Basic dimensions

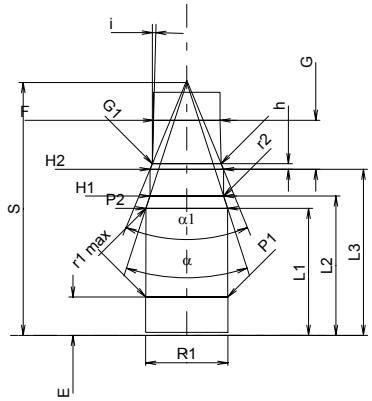
# C.I.P.

## 357 SIG

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **95-03-09** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1) | = | 16.49 | -0.20 |
| L2 1) | = | 18.16 | -0.20 |
| L3 1) | = | 21.97 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 28.96 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.40 | |
| R1 | = | 10.77 | |
| R3 | = | | |
| E | = | 3.59 | |
| E1 | = | 8.81 | |
| e min | = | 1.14 | |
| δ | = | 43° | |
| f | = | 0.51 | |
| β | = | 55° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 10.77 | |
| P2 1)* | = | 10.77 | -0.20 |

**Junction Cone**

| | | | |
|---|---|---|---|
| α * | = | 36° | |
| S * | = | 33.06 | |
| r1 min | = | 1.52 | |
| r2 | = | 3.81 | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 9.68 | |
| H2 1) | = | 9.68 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 9.03 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 28.44 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 3050 | bar |
| PK | = | 3508 | bar |
| PE | = | 3965 | bar |
| M | = | 10.50 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.20 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | 16.82 |
| L2 | = | 18.44 |
| L3 1) | = | 21.97 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.88 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 1) | = | 10.86 |
| P2 * | = | 10.80 |

**Junction Cone**

| | | |
|---|---|---|
| α 1)* | = | 36° |
| S * | = | 33.44 |
| r1 max | = | 1.27 |
| r2 | = | 3.81 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.75 |
| H2 1) | = | 9.70 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.09 |
| G 1) | = | 6.47 |
| α1 * | = | 44°48' |
| h | = | 0.74 |
| s | = | |
| i 1)* | = | 1°30' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.69 | |
| N | = | 6 | |
| u | = | 406.40 | |
| Q | = | 62.57 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

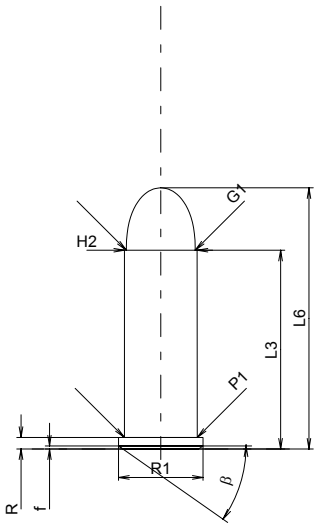
Notes: 1) Check for safety reasons
* Basic dimensions

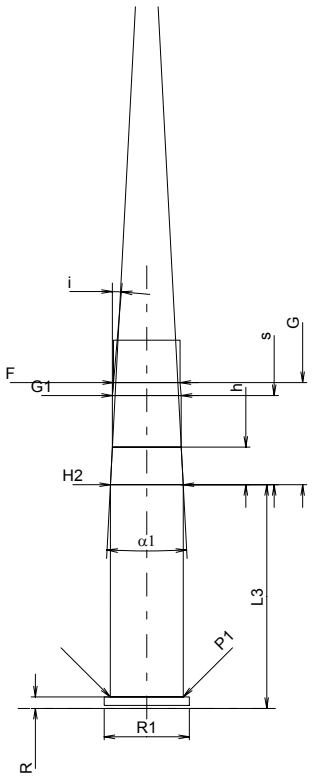
# C.I.P.

## 38 Long Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 26.29 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 34.54 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.60 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.12 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 39.80 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 900 bar |
| PK | = | 1035 bar |
| PE | = | 1170 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 29.59 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.66 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.11 |
| G 1) | = | 13.51 |
| α1 * | = | 6° |
| h | = | 4.96 |
| s | = | 11.80 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.81 |
| Z 1) | = | 8.97 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.05 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 62.45 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

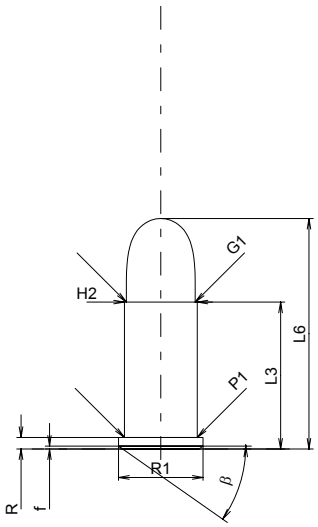
Notes: 1) Check for safety reasons
* Basic dimensions

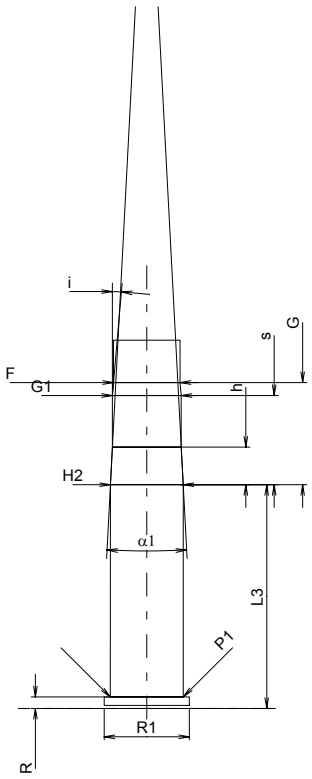
# C.I.P.

## 38 Short Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 19.43 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 30.48 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.12 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 32.94 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 900 bar |
| PK | = | 1035 bar |
| PE | = | 1170 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 29.59 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.66 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.11 |
| G 1) | = | 13.51 |
| α1 * | = | 6° |
| h | = | 4.96 |
| s | = | 11.80 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.81 |
| Z 1) | = | 8.97 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.05 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 62.45 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

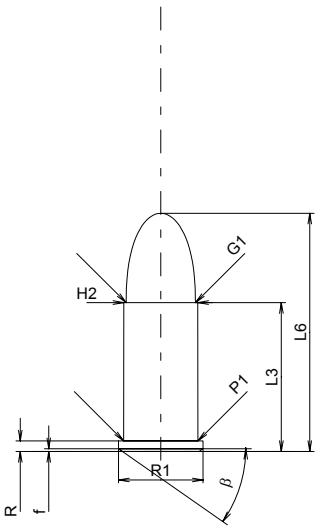
Notes: 1) Check for safety reasons
* Basic dimensions

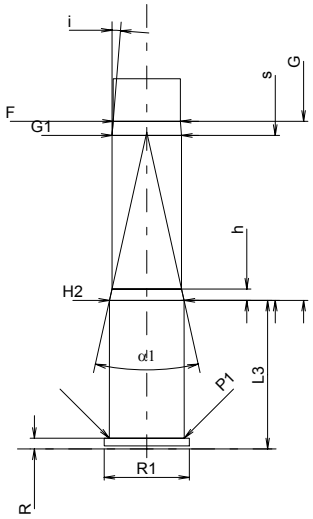
# C.I.P.

## 38 S.& W. et Colt N.P.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 19.69 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 31.50 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.40 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.82 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.79 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.17 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 43.37 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1200 bar |
| PK | = | 1380 bar |
| PE | = | 1560 bar |
| M | = | 9.00 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 19.65 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.40 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.91 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.86 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.19 |
| G 1) | = | 23.68 |
| α1 * | = | 25° |
| h | = | 1.49 |
| s | = | 21.81 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.89 |
| Z 1) | = | 9.13 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.90 | |
| N | = | 5 | |
| u | = | 476.00 | |
| Q | = | 63.84 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

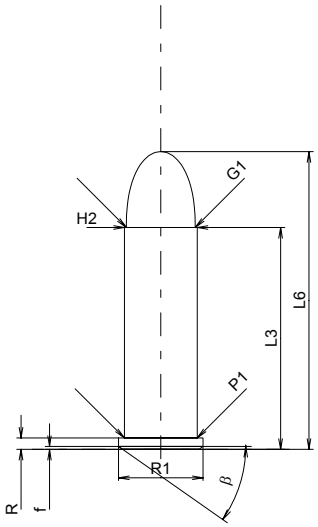
Notes: 1) Check for safety reasons
* Basic dimensions

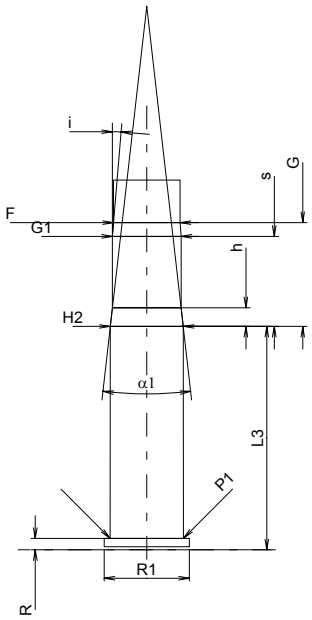
# C.I.P.

## 38 Special

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 29.34 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 39.37 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.50 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.12 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 43.06 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1500 bar |
| PK | = | 1725 bar |
| PE | = | 1950 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 29.54 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.50 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.68 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.09 |
| G 1) | = | 13.72 |
| α1 * | = | 13° |
| h | = | 2.46 |
| s * | = | 11.91 |
| i 1)* | = | 4°45' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.67 | |
| N | = | 6 | |
| u | = | 476.00 | |
| Q | = | 62.55 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

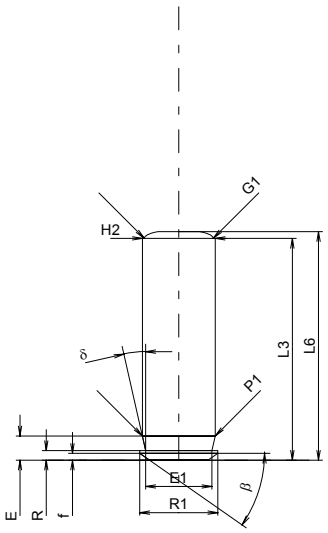
Notes: 1) Check for safety reasons
* Basic dimensions

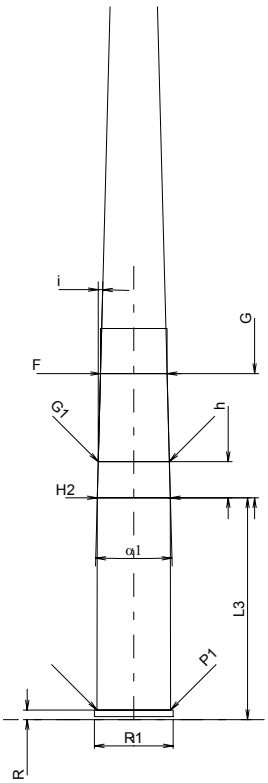
# C.I.P.

## 38 Spl. AMU

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 29.34 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 30.23 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.27 | -0.25 |
| R1 | = | 10.31 | |
| R3 | = | | |
| E | = | 3.20 | |
| E1 | = | 8.76 | |
| e min | = | | |
| δ | = | 12°42'05" | |
| f | = | 0.91 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 9.63 | |
| P2 | = | | |

**Junction Cone**

| | | | |
|---|---|---|---|
| α | = | | |
| S | = | | |
| r1 min | = | | |
| r2 | = | | |

**Collar**

| | | | |
|---|---|---|---|
| H1 | = | | |
| H2 1) | = | 9.63 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 9.11 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 45.76 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 1250 | bar |
| PK | = | 1438 | bar |
| PE | = | 1625 | bar |
| M | = | 10.50 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.25 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 29.34 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.27 |
| R1 | = | 10.41 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.71 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Commencement of Rifling**

| | | | |
|---|---|---|---|
| G1 1)* | = | 9.40 | |
| G 1) | = | 16.42 | |
| α1 * | = | 3° | |
| h | = | 4.77 | |
| s | = | | |
| i 1)* | = | 1°30' | |
| w | = | | |

**Barrel**

| | | | |
|---|---|---|---|
| F 1)* | = | 8.79 | |
| Z 1) | = | 9.02 | |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.07 | |
| N | = | 6 | |
| u | = | 356.00 | |
| Q | = | 62.85 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

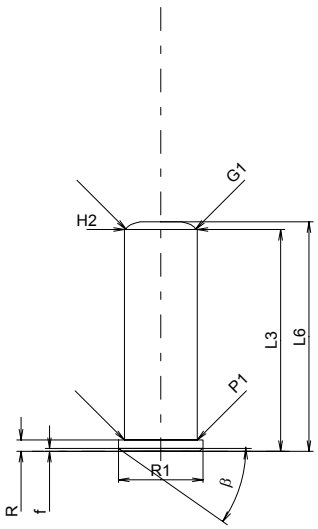
Notes: 1) Check for safety reasons
* Basic dimensions

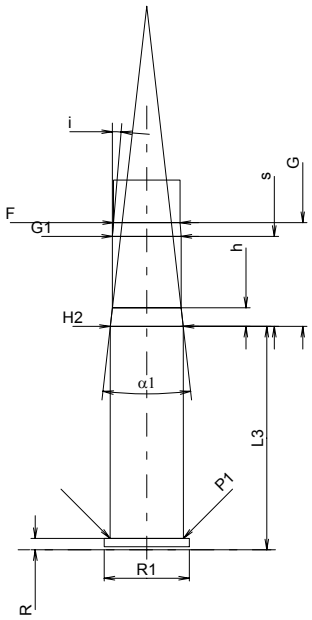
# C.I.P.

## 38 Spl. Wad Cut.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 29.34 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 30.35 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.50 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.14 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 43.06 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1200 bar |
| PK | = | 1380 bar |
| PE | = | 1560 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 29.54 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.50 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.68 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.65 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.09 |
| G 1) | = | 13.72 |
| α1 * | = | 13° |
| h | = | 2.46 |
| s | = | 11.91 |
| i 1)* | = | 4°45' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.67 | |
| N | = | 6 | |
| u | = | 476.00 | |
| Q | = | 62.51 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

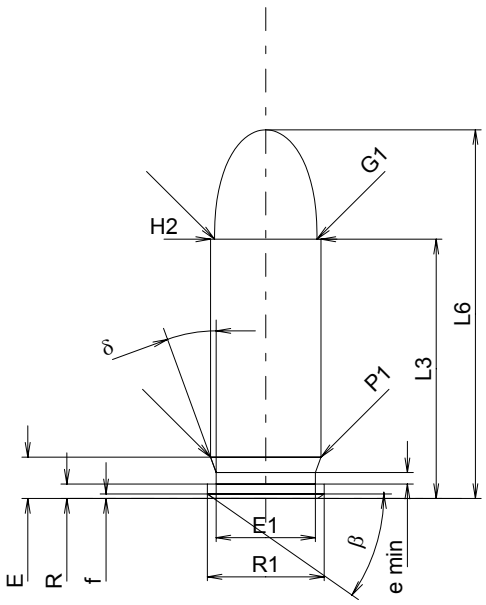
Notes: 1) Check for safety reasons
* Basic dimensions

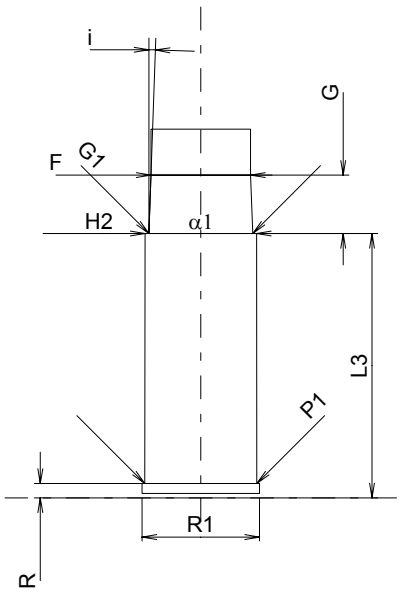
# C.I.P.

## 38 Super Auto

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 22.86 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.51 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.27 | -0.25 |
| R1 | = | 10.31 | |
| R3 | = | | |
| E | = | 3.65 | |
| E1 | = | 8.76 | |
| e min | = | 1.02 | |
| δ | = | 20° | |
| f | = | 0.41 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.75 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.75 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.04 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 28.01 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2300 bar |
| PK | = | 2645 bar |
| PE | = | 2990 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.31 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.27 |
| R1 | = | 10.36 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.88 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.83 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.15 |
| G 1) | = | 5.15 |
| α1 * | = | 180° |
| h | = | |
| s | = | |
| i 1)* | = | 3°22'39" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.07 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 62.85 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

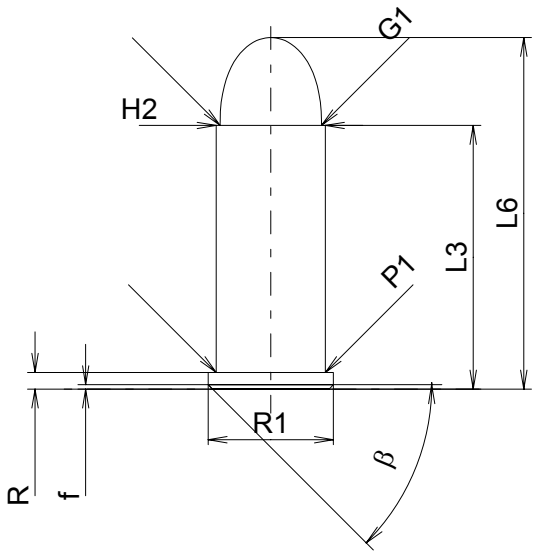
Notes: 1) Check for safety reasons
* Basic dimensions

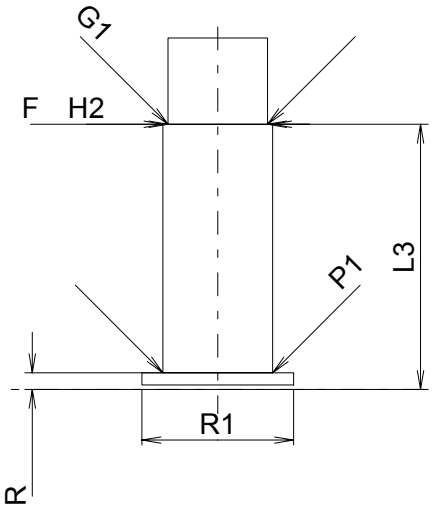
# C.I.P.

## 38/357 FX

Country of Origin: CA

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **98-01-27** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.24 |
| L4 | = | |
| L5 | = | |
| L6 | = | 30.99 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.47 | -0.25 |
| R1 | = | 11.05 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.63 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 8.94 |
| G2 | = | |
| F | = | |
| L3+G | = | |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 350 bar |
| PK | = | 403 bar |
| PE | = | 455 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 23.38 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.47 |
| R1 | = | 13.38 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.68 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.68 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 8.79 |
| G | = | |
| α1 | = | |
| h | = | |
| s | = | |
| i | = | |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.79 |
| Z 1) | = | 9.02 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.48 | |
| N | = | 6 | |
| u | = | 254.00 | |
| Q | = | 62.42 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

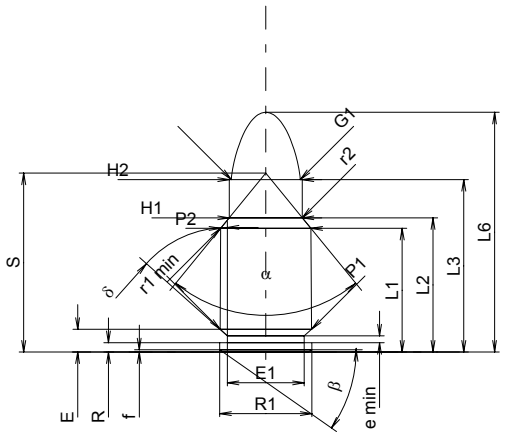
Notes: 1) Check for safety reasons
* Basic dimensions

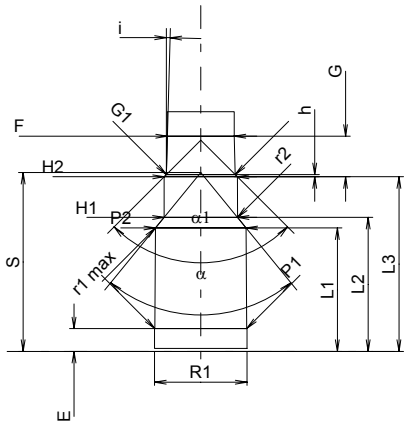
# C.I.P.

## 38-45 ACP

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 1) | = | 16.35 | -0.20 |
| L2 1) | = | 17.75 | -0.20 |
| L3 1) | = | 22.80 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 31.70 | |

**Case Head**

| | | | |
|---|---|---|---|
| R | = | 1.24 | |
| R1 | = | 12.19 | |
| R3 | = | | |
| E | = | 3.01 | |
| E1 | = | 10.15 | |
| e min | = | 0.90 | |
| δ | = | 45° | |
| f | = | 0.30 | |
| β | = | 35° | |

**Powder Chamber**

| | | | |
|---|---|---|---|
| P1 | = | 12.10 | |
| P2 1)* | = | 11.94 | -0.20 |

**Junction Cone**

| | | | |
|---|---|---|---|
| α * | = | 78°30' | |
| S * | = | 23.66 | |
| r1 min | = | 1.20 | |
| r2 | = | 1.20 | |

**Collar**

| | | | |
|---|---|---|---|
| H1 * | = | 9.65 | |
| H2 1) | = | 9.65 | |

**Projectile**

| | | | |
|---|---|---|---|
| G1 1) | = | 9.12 | |
| G2 | = | | |
| F | = | | |
| L3+G 1) | = | 28.16 | |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 2350 | bar |
| PK | = | 2703 | bar |
| PE | = | 3055 | bar |
| M | = | 12.50 | |

**Miscellaneous Dimensions**

| | | | |
|---|---|---|---|
| Fe 1) | = | 0.20 | |
| delta L | = | | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | 16.33 |
| L2 | = | 17.72 |
| L3 1) | = | 23.10 |

**Breech**

| | | |
|---|---|---|
| R | = | 1.24 |
| R1 | = | 12.22 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 3.01 |
| P1 1) | = | 12.15 |
| P2 * | = | 11.98 |

**Junction Cone**

| | | |
|---|---|---|
| α 1)* | = | 78°30' |
| S * | = | 23.66 |
| r1 max | = | 1.20 |
| r2 | = | 1.50 |

**Collar**

| | | |
|---|---|---|
| H1 * | = | 9.70 |
| H2 1) | = | 9.68 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.13 |
| G 1) | = | 5.36 |
| α1 * | = | 90° |
| h | = | 0.28 |
| s | = | |
| i 1)* | = | 1°38'05" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.84 |
| Z 1) | = | 9.09 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.80 | |
| N | = | 6 | |
| u | = | 475.00 | |
| Q | = | 63.51 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

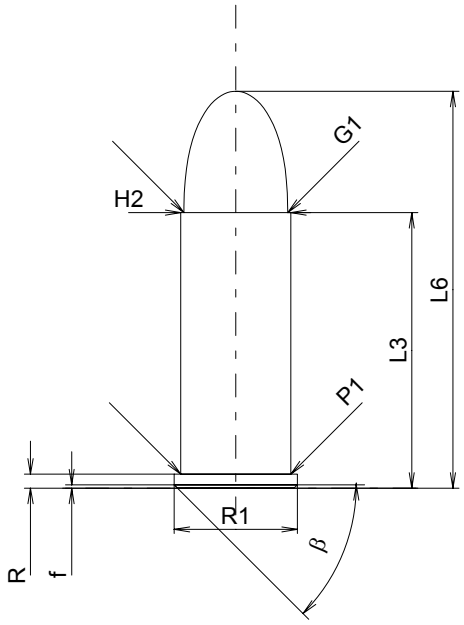
Notes: 1) Check for safety reasons
* Basic dimensions

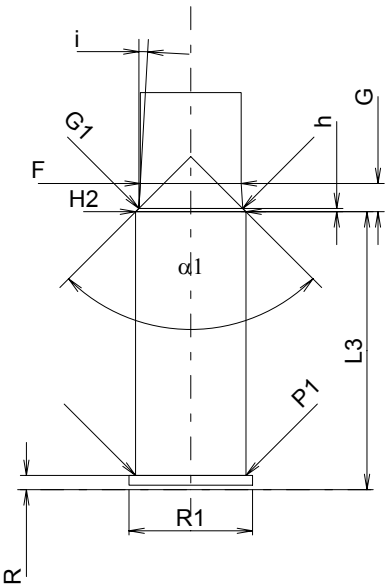
# C.I.P.

## 380 Long

Country of Origin: GB

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 24.30 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 35.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.25 | -0.25 |
| R1 | = | 10.85 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.70 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.70 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.15 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 26.79 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 770 bar |
| PK | = | 886 bar |
| PE | = | 1001 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 24.50 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.25 |
| R1 | = | 10.90 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.75 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.73 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.15 |
| G 1)* | = | 2.49 |
| α1 | = | 90° |
| h * | = | 0.29 |
| s | = | |
| i 1) | = | 3°15'06" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.90 |
| Z 1) | = | 9.13 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.40 | |
| N | = | 6 | |
| u | = | 500.00 | |
| Q | = | 63.89 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

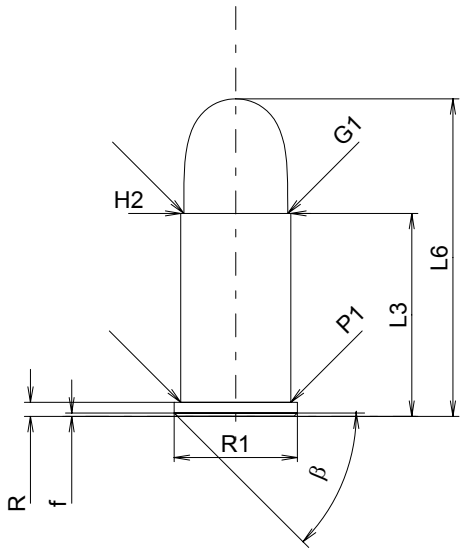
Notes: 1) Check for safety reasons
* Basic dimensions

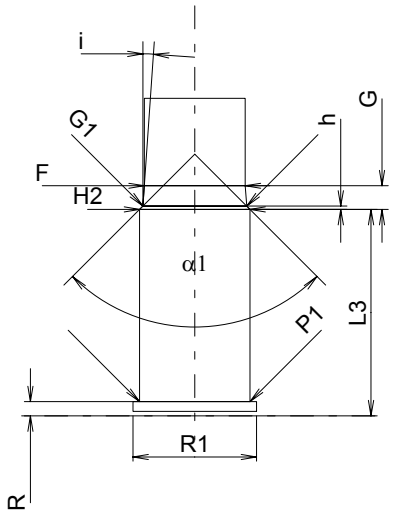
# C.I.P.

## 380 Short

Country of Origin: GB

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 17.90 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 28.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.25 | -0.25 |
| R1 | = | 10.85 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 9.70 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.70 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.15 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 19.98 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 680 bar |
| PK | = | 782 bar |
| PE | = | 884 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 18.20 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.25 |
| R1 | = | 10.90 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 9.75 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 9.73 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 9.15 |
| G 1)* | = | 2.08 |
| α1 | = | 90° |
| h * | = | 0.29 |
| s | = | |
| i 1) | = | 3°59'41" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 8.90 |
| Z 1) | = | 9.13 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 1.10 | |
| N | = | 7 | |
| u | = | 400.00 | |
| Q | = | 63.10 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

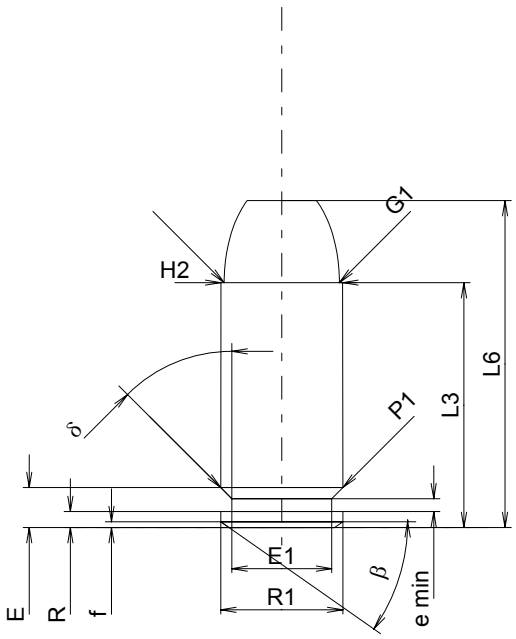
Notes: 1) Check for safety reasons
* Basic dimensions

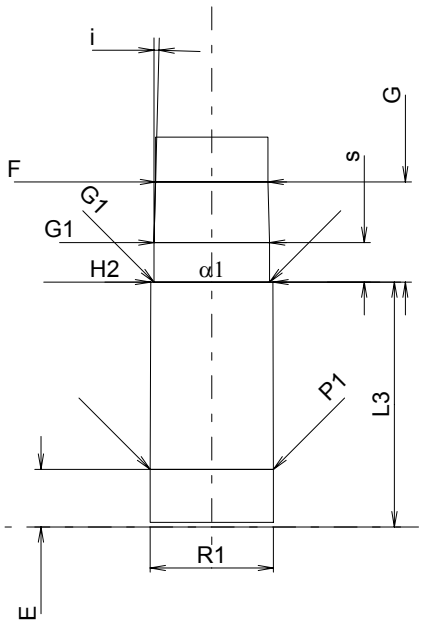
# C.I.P.

## 40 S.& W.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **90-02-01** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 21.59 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 28.83 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.40 |
| R1 | = | 10.77 |
| R3 | = | |
| E | = | 3.52 |
| E1 | = | 8.81 |
| e min | = | 1.14 |
| δ | = | 45° |
| f | = | 0.51 |
| β | = | 35° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 10.77 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.74 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.17 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 30.42 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2250 bar |
| PK | = | 2588 bar |
| PE | = | 2925 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 21.59 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 10.88 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 1) | = | 10.86 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.77 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.19 |
| G 1) | = | 8.83 |
| α1 * | = | 180° |
| h | = | |
| s | = | 3.48 |
| i 1)* | = | 1°30' |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 9.91 |
| Z 1) | = | 10.17 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.05 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 79.55 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

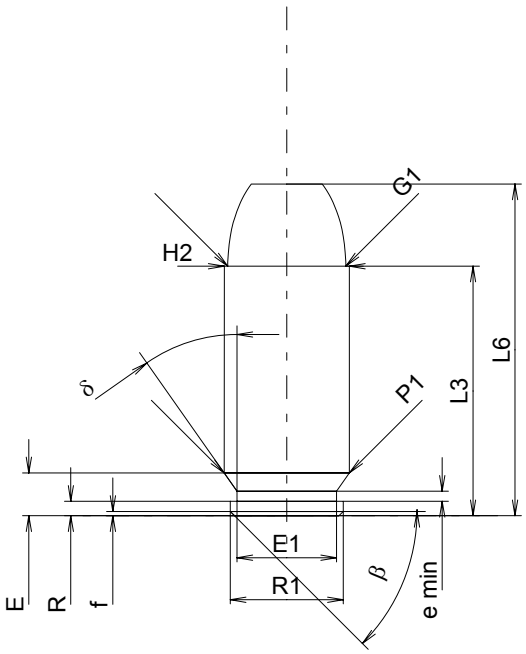
Notes: 1) Check for safety reasons
* Basic dimensions

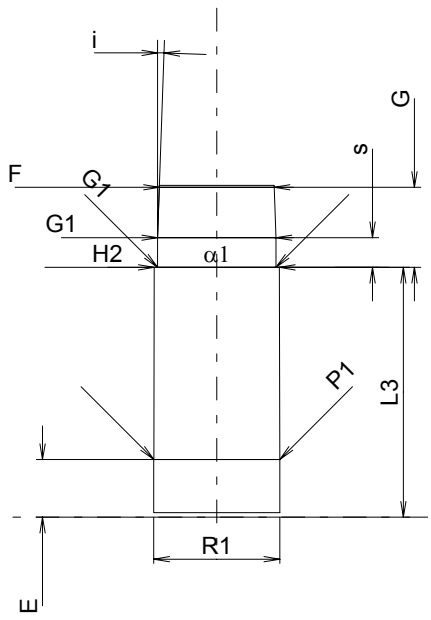
# C.I.P.

## 41 ACT EXP

Country of Origin: IL

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **86-12-03** |
| **Revision** | **00-06-07** |




Scale 1.5:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 [1)] | = | 22.00 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 29.25 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.27 |
| R1 | = | 9.96 |
| R3 | = | |
| E | = | 3.77 |
| E1 | = | 8.79 |
| e min | = | 0.89 |
| δ | = | 35° |
| f | = | 0.38 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.05 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 [1)] | = | 11.03 |

**Projectile**

| | | |
|---|---|---|
| G1 [1)] | = | 10.41 |
| G2 | = | |
| F | = | |
| L3+G [1)] | = | 29.06 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2250 bar |
| PK | = | 2588 bar |
| PE | = | 2925 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe [1)] | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 [1)] | = | 22.02 |

**Breech**

| | | |
|---|---|---|
| R | = | 2.54 |
| R1 | = | 11.11 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 [1)] | = | 11.10 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 [1)] | = | 11.05 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 [1)*] | = | 10.44 |
| G [1)] | = | 7.06 |
| α1 [*] | = | 180° |
| h | = | |
| s | = | 2.62 |
| i [1)*] | = | 2° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F [1)*] | = | 10.13 |
| Z [1)] | = | 10.39 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.00 | |
| N | = | 6 | |
| u | = | 360.00 | |
| Q | = | 82.17 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

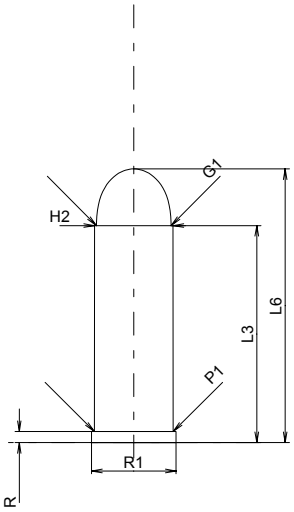
Notes: 1) Check for safety reasons
* Basic dimensions

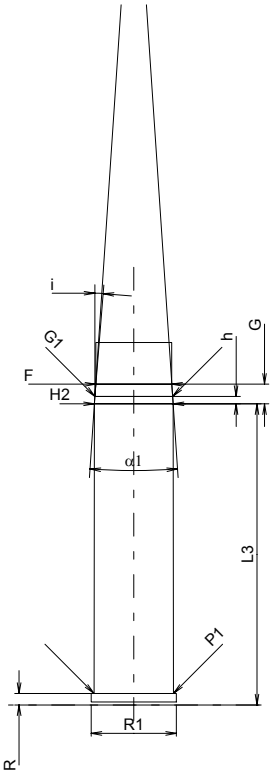
# C.I.P.

## 41 Long Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 28.70 |
| L4 | = | |
| L5 | = | |
| L6 | = | 36.19 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.45 | -0.25 |
| R1 | = | 11.18 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | | |
| β | = | | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 10.43 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.39 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 9.86 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 31.29 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 900 bar |
| PK | = | 1035 bar |
| PE | = | 1170 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 39.83 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 11.28 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 10.49 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 10.42 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.29 |
| G 1) | = | 2.59 |
| α1 * | = | 7°40'12" |
| h | = | 0.97 |
| s | = | |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.03 |
| Z 1) | = | 10.19 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.61 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 80.78 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix .

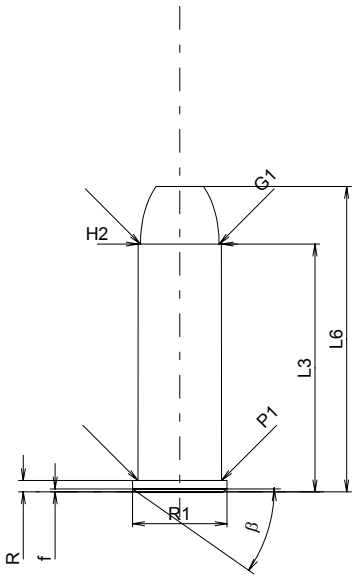
Notes: 1) Check for safety reasons
* Basic dimensions

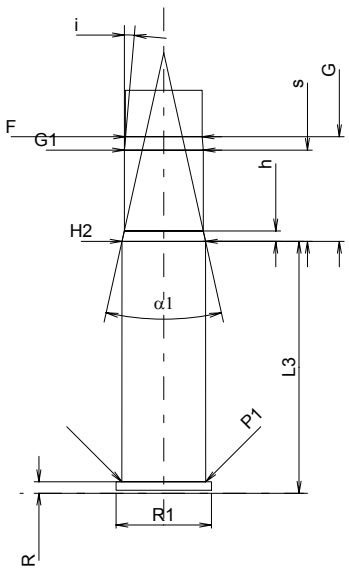
# C.I.P.

## 41 Rem. Mag.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **86-12-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 32.77 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.39 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.50 | -0.25 |
| R1 | = | 12.50 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.05 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.02 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.41 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 46.60 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3000 bar |
| PK | = | 3450 bar |
| PE | = | 3900 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 33.32 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 12.62 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.10 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.05 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.44 |
| G 1) | = | 13.83 |
| α1 * | = | 25° |
| h | = | 1.38 |
| s | = | 12.06 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.13 |
| Z 1) | = | 10.39 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.68 | |
| N | = | 6 | |
| u | = | 476.30 | |
| Q | = | 82.71 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

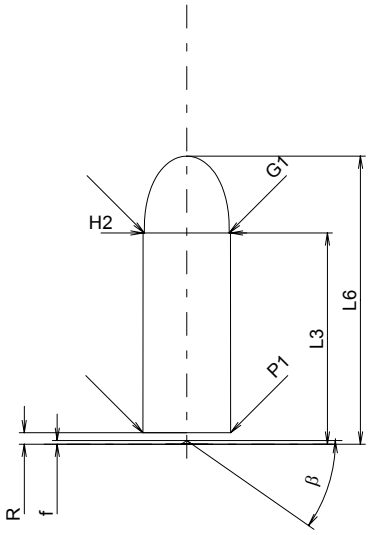
Notes: 1) Check for safety reasons
* Basic dimensions

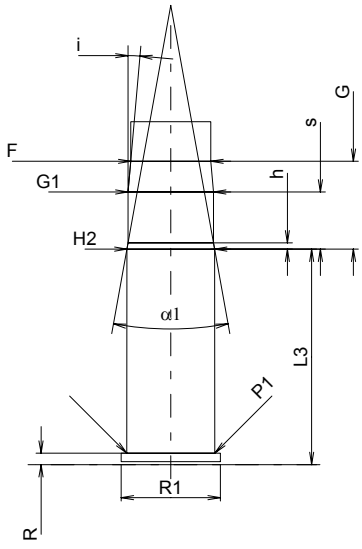
# C.I.P.

## 44 Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **00-02-15** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 27.94 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 38.10 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.50 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.58 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.55 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.25 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 39.56 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 28.50 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.10 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.63 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.60 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.30 |
| G 1) | = | 11.62 |
| α1 * | = | 20°24' |
| h | = | 0.83 |
| s | = | 7.56 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.59 |
| Z 1) | = | 10.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.73 | |
| N | = | 6 | |
| u | = | 508.00 | |
| Q | = | 90.65 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

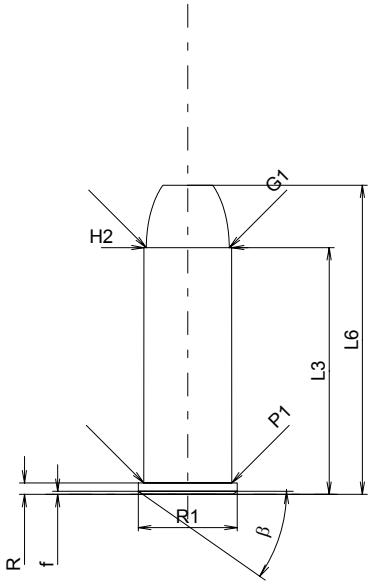
Notes: 1) Check for safety reasons
* Basic dimensions

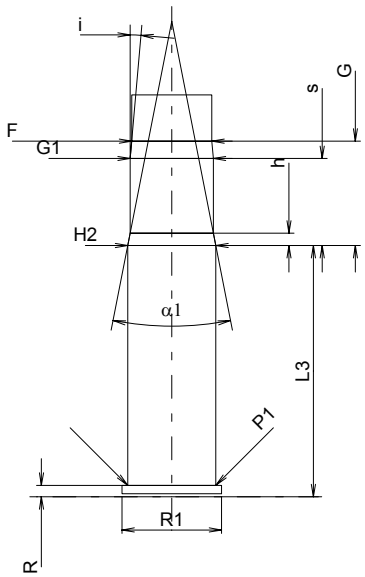
# C.I.P.

## 44 Rem. Mag.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **86-12-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 32.64 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.89 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 13.06 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.61 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.58 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.97 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 46.44 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2800 bar |
| PK | = | 3220 bar |
| PE | = | 3640 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 33.23 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.18 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.66 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.63 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.99 |
| G 1) | = | 13.80 |
| α1 * | = | 22°12' |
| h | = | 1.63 |
| s | = | 11.51 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.59 |
| Z 1) | = | 10.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 2.73 | |
| N | = | 6 | |
| u | = | 508.00 | |
| Q | = | 90.65 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

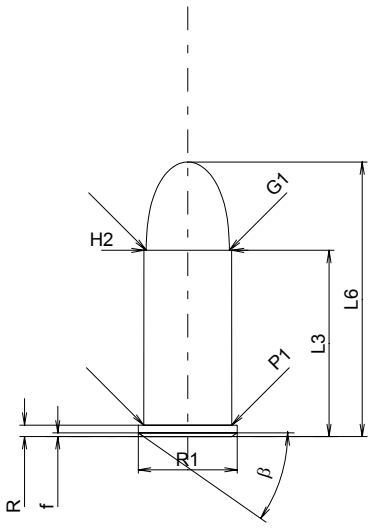
Notes: 1) Check for safety reasons
* Basic dimensions

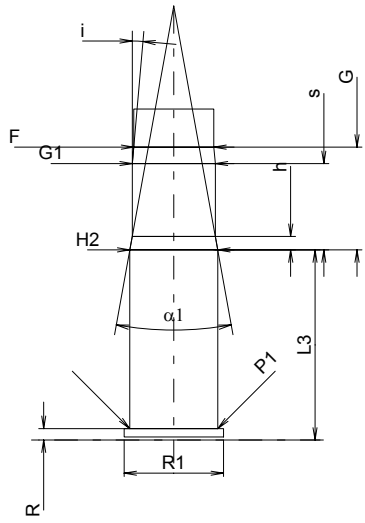
# C.I.P.

## 44 S.& W. Russian

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 24.64 |
| L4 | = | |
| L5 | = | |
| L6 | = | 36.32 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 13.08 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.50 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.61 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.59 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.98 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 38.23 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 25.15 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.16 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.62 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.61 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.97 |
| G 1) | = | 13.59 |
| α1 * | = | 20°24' |
| h | = | 1.78 |
| s | = | 11.42 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.59 |
| Z 1) | = | 10.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.26 | |
| N | = | 5 | |
| u | = | 508.00 | |
| Q | = | 90.65 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

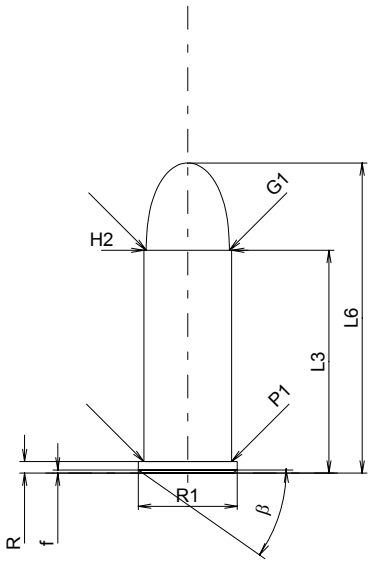
Notes: 1) Check for safety reasons
* Basic dimensions

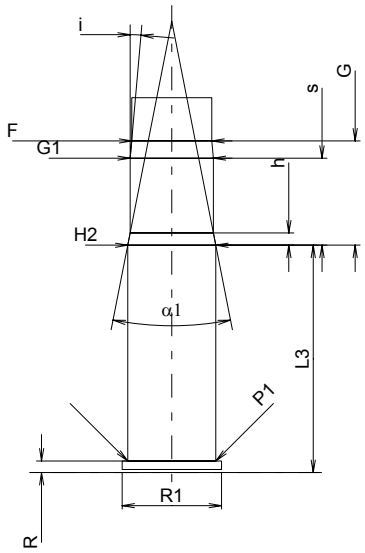
# C.I.P.

## 44 S.& W. Special

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 29.46 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 41.02 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 13.06 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 11.60 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.60 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 10.98 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 43.26 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 30.06 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.16 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 11.66 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.63 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 10.99 |
| G 1) | = | 13.80 |
| α1 * | = | 22°12'50" |
| h | = | 1.63 |
| s | = | 11.51 |
| i 1)* | = | 5° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 10.59 |
| Z 1) | = | 10.90 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.26 | |
| N | = | 5 | |
| u | = | 508.00 | |
| Q | = | 90.65 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

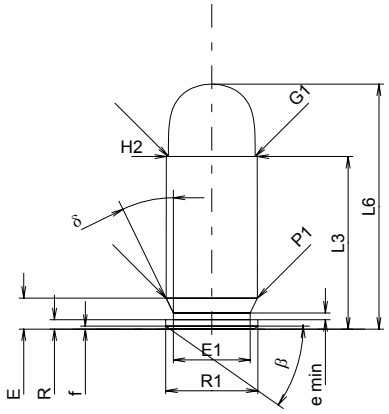
Notes: 1) Check for safety reasons
* Basic dimensions

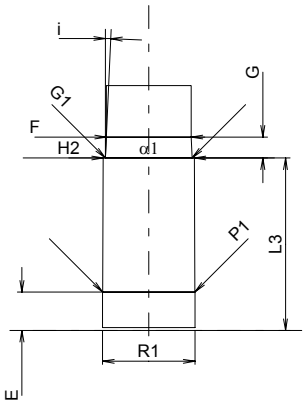
# C.I.P.

## 45 Auto

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 22.81 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.39 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.24 |
| R1 | = | 12.19 |
| R3 | = | |
| E | = | 4.11 |
| E1 | = | 10.16 |
| e min | = | 0.89 |
| δ | = | 26° |
| f | = | 0.38 |
| β | = | 35° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.09 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.01 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.48 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 25.58 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1300 bar |
| PK | = | 1495 bar |
| PE | = | 1690 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 22.81 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 12.22 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 1) | = | 12.18 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.04 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.48 |
| G 1) | = | 2.77 |
| α1 * | = | 180° |
| h | = | |
| s | = | |
| i 1)* | = | 2°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.23 |
| Z 1) | = | 11.43 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.73 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 101.33 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

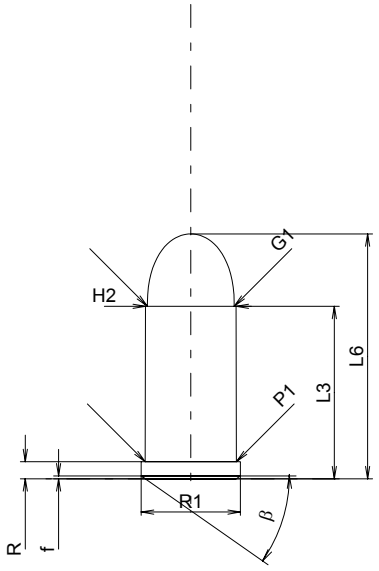
Notes: 1) Check for safety reasons
* Basic dimensions

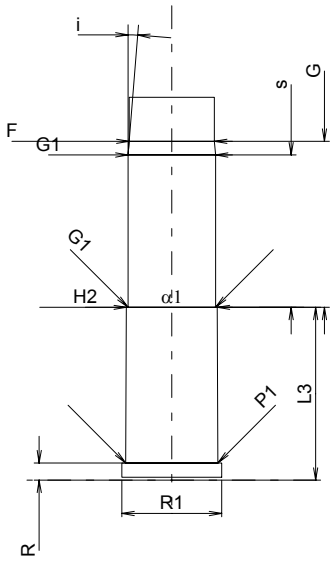
# C.I.P.

## 45 Auto Rim

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 22.81 |
| L4 | = | |
| L5 | = | |
| L6 | = | 32.39 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 2.26 | -0.25 |
| R1 | = | 13.11 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.09 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 11.99 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.48 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 44.77 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1200 bar |
| PK | = | 1380 bar |
| PE | = | 1560 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 22.86 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 2.29 |
| R1 | = | 13.21 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.18 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.01 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.57 |
| G 1) | = | 21.96 |
| α1 * | = | 180° |
| h | = | |
| s | = | 20.15 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.28 |
| Z 1) | = | 11.46 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.96 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 102.12 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

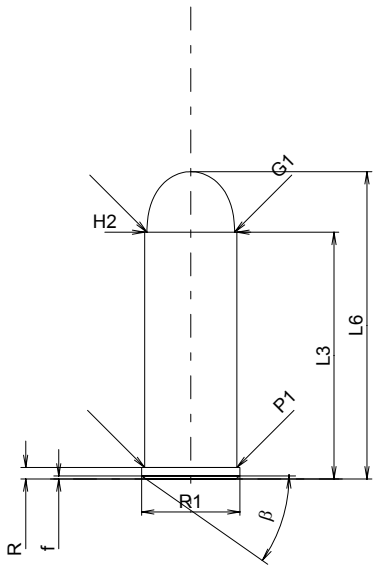
Notes: 1) Check for safety reasons
* Basic dimensions

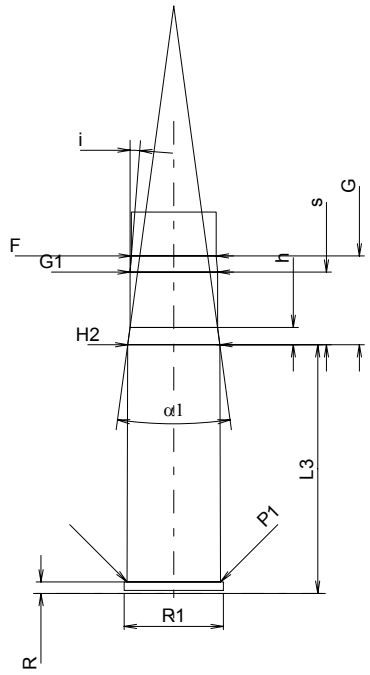
# C.I.P.

## 45 Colt

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **91-02-20** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 32.64 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.64 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 13.00 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.19 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.19 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.58 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 44.38 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1100 bar |
| PK | = | 1265 bar |
| PE | = | 1430 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 32.89 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.11 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.37 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.19 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.57 |
| G 1) | = | 11.74 |
| α1 * | = | 15°30' |
| h | = | 2.28 |
| s | = | 9.60 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.23 |
| Z 1) | = | 11.43 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.96 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 101.48 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

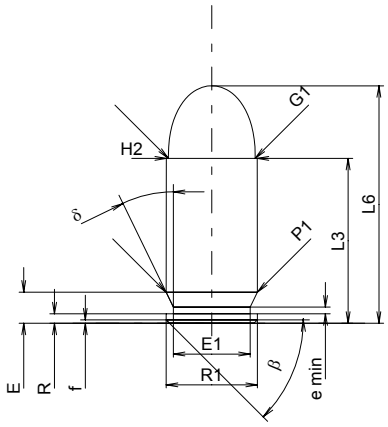
Notes: 1) Check for safety reasons
* Basic dimensions

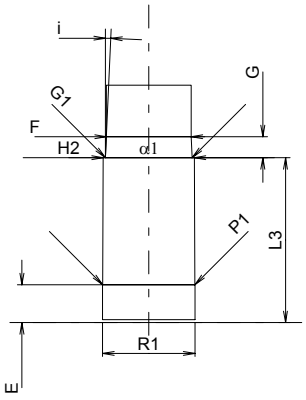
# C.I.P.

## 45 HP

Country of Origin: AT

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-11-16** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 21.80 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 31.40 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.24 |
| R1 | = | 12.05 |
| R3 | = | |
| E | = | 4.11 |
| E1 | = | 10.16 |
| e min | = | 0.89 |
| δ | = | 26° |
| f | = | 0.44 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.09 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.01 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.48 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 24.57 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1300 bar |
| PK | = | 1495 bar |
| PE | = | 1690 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 21.81 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 12.22 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.00 |
| P1 1) | = | 12.18 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.04 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.48 |
| G 1)* | = | 2.77 |
| α1 | = | 180° |
| h | = | |
| s | = | |
| i 1) | = | 2°35'02" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.23 |
| Z 1) | = | 11.43 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.73 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 101.33 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

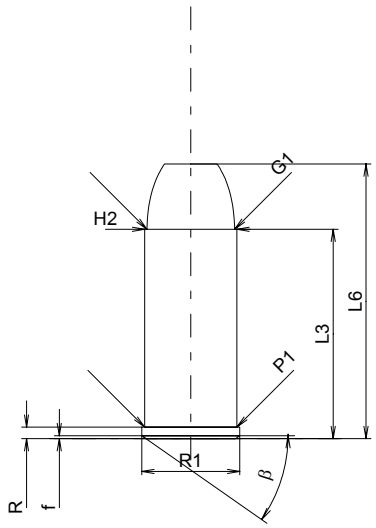
Notes: 1) Check for safety reasons
* Basic dimensions

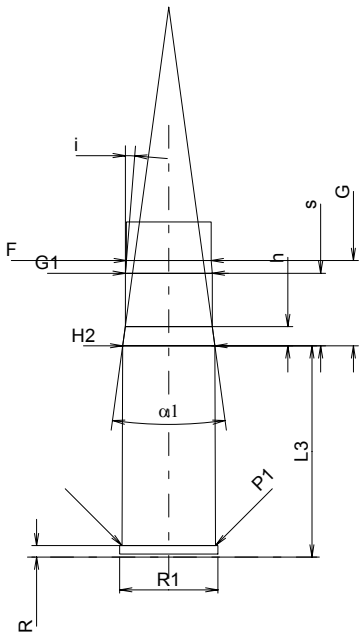
# C.I.P.

## 45 S.& W. Schofield

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **00-02-15** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 27.69 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 36.32 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 12.95 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.40 | |
| β | = | 35° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.19 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.19 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.58 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 38.97 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 1000 bar |
| PK | = | 1150 bar |
| PE | = | 1300 bar |
| M | = | 12.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 27.94 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.01 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.37 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.19 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.50 |
| G 1) | = | 11.28 |
| α1 * | = | 15°30' |
| h | = | 2.54 |
| s | = | 9.60 |
| i 1)* | = | 4°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.23 |
| Z 1) | = | 11.43 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.96 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 101.48 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

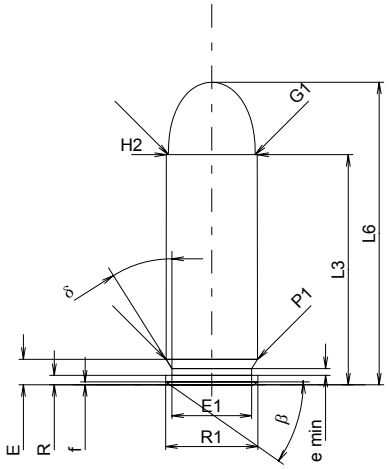
Notes: 1) Check for safety reasons
* Basic dimensions

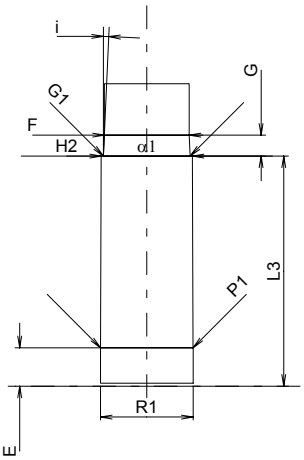
# C.I.P.

## 45 Win. Mag.

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 30.43 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.01 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.24 |
| R1 | = | 12.19 |
| R3 | = | |
| E | = | 3.38 |
| E1 | = | 10.54 |
| e min | = | 0.90 |
| δ | = | 32° |
| f | = | 0.38 |
| β | = | 35° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.10 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.01 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.48 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 33.20 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2750 bar |
| PK | = | 3163 bar |
| PE | = | 3575 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 30.43 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 12.24 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.08 |
| P1 1) | = | 12.21 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.04 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.48 |
| G 1) | = | 2.77 |
| α1 * | = | 180° |
| h | = | |
| s | = | |
| i 1)* | = | 2°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.23 |
| Z 1) | = | 11.43 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.73 | |
| N | = | 6 | |
| u | = | 406.00 | |
| Q | = | 101.33 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

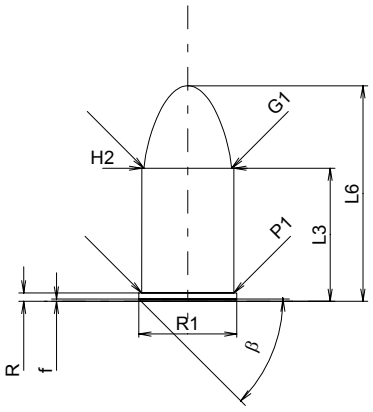
Notes: 1) Check for safety reasons
* Basic dimensions

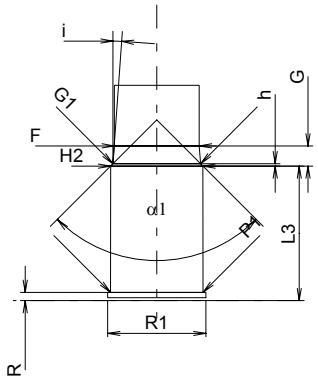
# C.I.P.

## 450 Short

Country of Origin: GB

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 17.60 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 28.50 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.10 | -0.25 |
| R1 | = | 12.95 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.30 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.18 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.17 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.58 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 20.27 |

**Pressures (Energies)**
**Method Transducer**

| | | | |
|---|---|---|---|
| Pmax | = | 720 | bar |
| PK | = | 828 | bar |
| PE | = | 936 | bar |
| M | = | 8.00 | |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 17.80 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.10 |
| R1 | = | 13.00 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.22 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.20 |

**Commencement of Rifling**

| | | | |
|---|---|---|---|
| G1 1)* | = | 11.58 | |
| G 1)* | = | 2.67 | |
| α1 | = | 90° | |
| h * | = | 0.31 | |
| s | = | | |
| i 1) | = | 4° | |
| w | = | | |

**Barrel**

| | | | |
|---|---|---|---|
| F 1)* | = | 11.25 | |
| Z 1) | = | 11.48 | |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.78 | |
| N | = | 5 | |
| u | = | 500.00 | |
| Q | = | 101.60 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

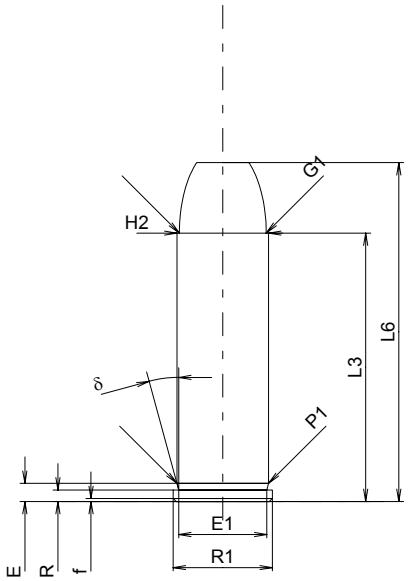
Notes: 1) Check for safety reasons
* Basic dimensions

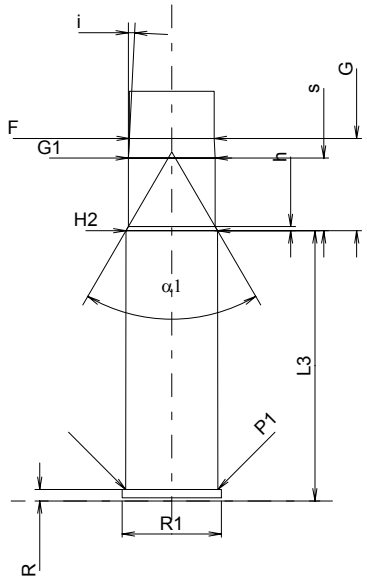
# C.I.P.

## 454 Casull

Country of Origin: US

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **95-03-09** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 35.50 |
| L4 | = | |
| L5 | = | |
| L6 | = | 44.83 |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.52 | -0.25 |
| R1 | = | 13.10 | |
| R3 | = | | |
| E | = | 2.40 | |
| E1 | = | 11.65 | |
| e min | = | | |
| δ | = | 15°15'18" | |
| f | = | 0.40 | |
| β | = | | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.13 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.12 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.49 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 47.70 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 3900 bar |
| PK | = | 4485 bar |
| PE | = | 5070 bar |
| M | = | 17.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 35.74 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.52 |
| R1 | = | 13.11 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.18 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.13 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.49 |
| G 1) | = | 12.20 |
| α1 * | = | 60°22'59" |
| h | = | 0.55 |
| s | = | 9.60 |
| i 1)* | = | 4°25'36" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.23 |
| Z 1) | = | 11.43 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 4.06 | |
| N | = | 6 | |
| u | = | 508.00 | |
| Q | = | 101.54 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

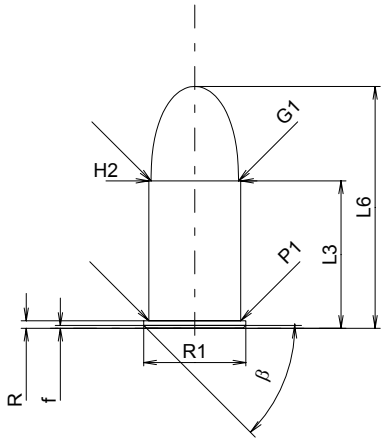
Notes: 1) Check for safety reasons
* Basic dimensions

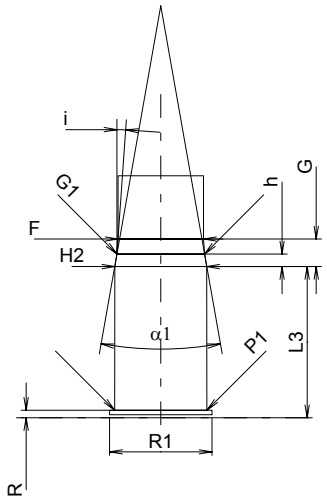
# C.I.P.

## 455 MK II

Country of Origin: GB

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **84-06-14** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 19.50 | |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 32.00 | |

**Case Head**

| | | | |
|---|---|---|---|
| R 1) | = | 1.00 | -0.25 |
| R1 | = | 13.50 | |
| R3 | = | | |
| E | = | | |
| E1 | = | | |
| e min | = | | |
| δ | = | | |
| f | = | 0.38 | |
| β | = | 45° | |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 12.15 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.14 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 11.57 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 23.15 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 900 bar |
| PK | = | 1035 bar |
| PE | = | 1170 bar |
| M | = | 7.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.25 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 20.00 |

**Breech**

| | | |
|---|---|---|
| R 1) | = | 1.00 |
| R1 | = | 13.55 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | |
| P1 1) | = | 12.20 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 12.16 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 11.58 |
| G 1)* | = | 3.65 |
| α1 | = | 20° |
| h * | = | 1.65 |
| s | = | |
| i 1) | = | 4° |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 11.30 |
| Z 1) | = | 11.55 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 1.00 | |
| N | = | 7 | |
| u | = | 500.00 | |
| Q | = | 101.16 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

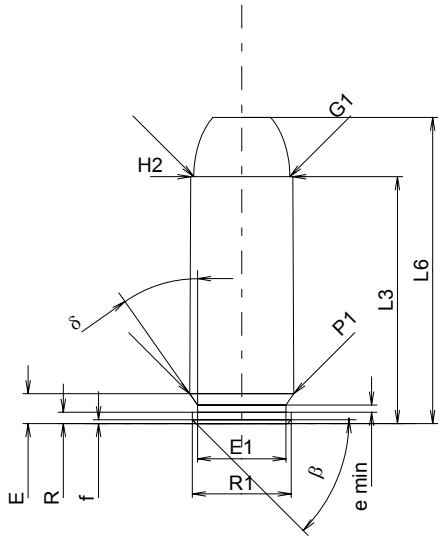
Notes: 1) Check for safety reasons
* Basic dimensions

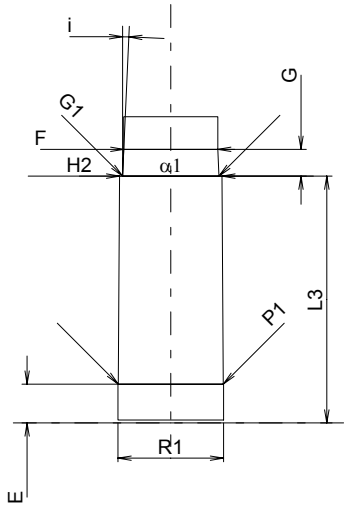
# C.I.P.

## 50 AE

Country of Origin: IL

| | |
|---|---|
| **TAB.** | **IV** |
| **Date** | **91-10-18** |
| **Revision** | **00-06-07** |




Scale 1:1

### CARTRIDGE MAXI

**Lengths**

| | | | |
|---|---|---|---|
| L1 | = | | |
| L2 | = | | |
| L3 1) | = | 32.64 | -0.25 |
| L4 | = | | |
| L5 | = | | |
| L6 | = | 40.50 | |

**Case Head**

| | | |
|---|---|---|
| R | = | 1.50 |
| R1 | = | 13.06 |
| R3 | = | |
| E | = | 3.94 |
| E1 | = | 11.70 |
| e min | = | 0.95 |
| δ | = | 35° |
| f | = | 0.50 |
| β | = | 45° |

**Powder Chamber**

| | | |
|---|---|---|
| P1 | = | 13.79 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 min | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 13.50 |

**Projectile**

| | | |
|---|---|---|
| G1 1) | = | 12.71 |
| G2 | = | |
| F | = | |
| L3+G 1) | = | 36.19 |

**Pressures (Energies)**
**Method Transducer**

| | | |
|---|---|---|
| Pmax | = | 2300 bar |
| PK | = | 2645 bar |
| PE | = | 2990 bar |
| M | = | 10.50 |

**Miscellaneous Dimensions**

| | | |
|---|---|---|
| Fe 1) | = | 0.30 |
| delta L | = | |

### CHAMBER MINI

**Lengths**

| | | |
|---|---|---|
| L1 | = | |
| L2 | = | |
| L3 1) | = | 32.64 |

**Breech**

| | | |
|---|---|---|
| R | = | |
| R1 | = | 13.96 |
| R2 | = | |
| R3 | = | |
| r | = | |

**Powder Chamber**

| | | |
|---|---|---|
| E | = | 5.14 |
| P1 1) | = | 13.89 |
| P2 | = | |

**Junction Cone**

| | | |
|---|---|---|
| α | = | |
| S | = | |
| r1 max | = | |
| r2 | = | |

**Collar**

| | | |
|---|---|---|
| H1 | = | |
| H2 1) | = | 13.52 |

**Commencement of Rifling**

| | | |
|---|---|---|
| G1 1)* | = | 12.75 |
| G 1) | = | 3.55 |
| α1 * | = | 180° |
| h | = | |
| s | = | |
| i 1)* | = | 2°34'59" |
| w | = | |

**Barrel**

| | | |
|---|---|---|
| F 1)* | = | 12.43 |
| Z 1) | = | 12.73 |

**Grooves**

| | | | |
|---|---|---|---|
| b | = | 3.43 | |
| N | = | 6 | |
| u | = | 482.60 | |
| Q | = | 124.29 | mm² |

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions