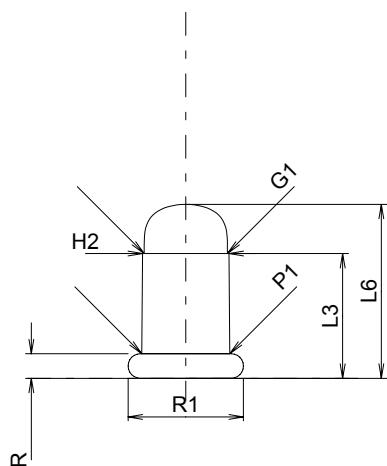


C.I.P.**4 mm Randz. court**TAB. **V**Date **84-06-14**

Country of Origin: DE

Revision **00-06-07****CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	6.60
L4	=	
L5	=	
L6	=	9.20

Case Head

R ¹⁾	=	1.30	-0.18
R1	=	6.10	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	4.65
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	4.58

Projectile

G1 ¹⁾	=	4.40
G2	=	
F	=	4.05
L3+G ¹⁾	=	9.25

Pressures (Energies)**Energy**

E _{max}	=	30.0 Joule
E _K	=	32.1 Joule
E _E	=	33.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	6.70

Breech

R ¹⁾	=	1.20
R1	=	6.13
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	4.70
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	4.58

Commencement of Rifling

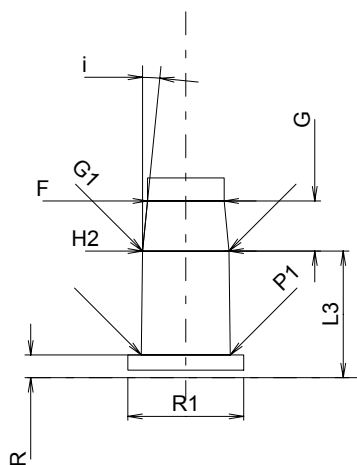
G1 [*]	=	4.58
G [*]	=	2.65
α1	=	
h	=	
s	=	
i	=	5°42'38"
w	=	

Barrel

F ¹⁾ *	=	4.05
Z ¹⁾	=	4.30

Grooves

b	=	1.25
N	=	6
u	=	450.00
Q	=	13.83 mm ²



Scale 2.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

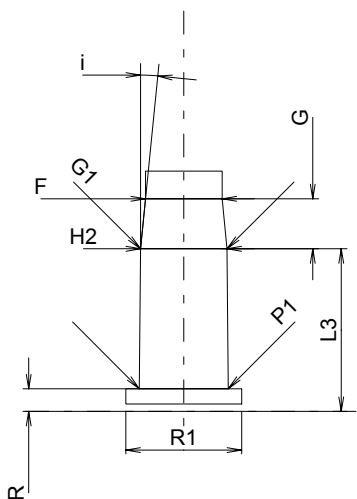
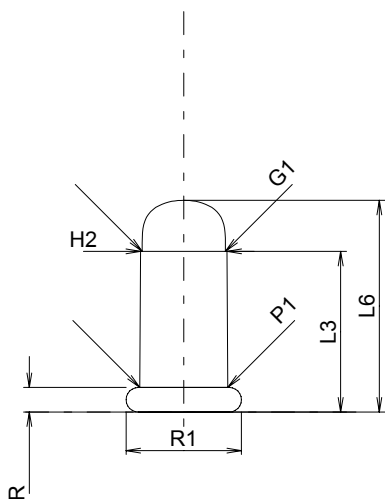
4 mm Randz. long

Country of Origin: DE

TAB. V

Date 84-06-14

Revision 00-06-07



CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	8.50
L4	=	
L5	=	
L6	=	11.20

Case Head

R ¹⁾	=	1.30	-0.18
R1	=	6.10	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	4.65
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	4.58

Projectile

G1 ¹⁾	=	4.40
G2	=	
F	=	4.05
L3+G ¹⁾	=	11.15

Pressures (Energies)

Energy

E _{max}	=	30.0 Joule
E _K	=	32.1 Joule
E _E	=	33.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	8.60

Breech

R ¹⁾	=	1.20
R1	=	6.13
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	4.70
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	4.58

Commencement of Rifling

G1 [*]	=	4.58
G [*]	=	2.65
α1	=	
h	=	
s	=	
i	=	5°42'38"
w	=	

Barrel

F ¹⁾ *	=	4.05
Z ¹⁾	=	4.30

Grooves

b	=	1.25
N	=	6
u	=	450.00
Q	=	13.83 mm ²

Scale 2.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

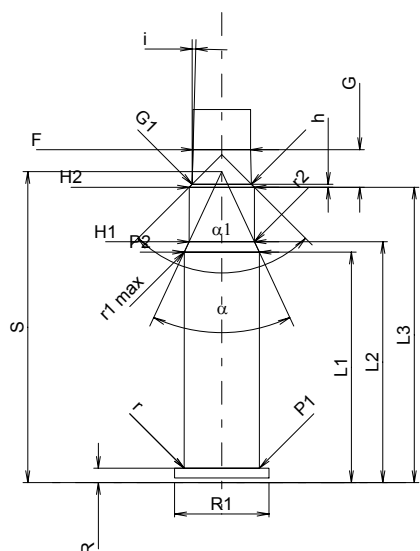
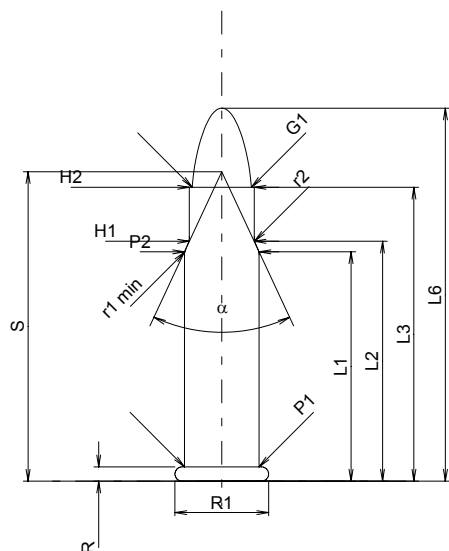
5 mm Rem. Mag.

Country of Origin: US

TAB. V

Date 84-06-14

Revision 00-06-07



CARTRIDGE MAXI

Lengths

L1	=	20.22
L2	=	21.15
L3 ¹⁾	=	25.91
L4	=	
L5	=	
L6	=	32.89

Case Head

R ¹⁾	=	1.26	-0.18
R1	=	8.26	
R3	=		
E	=		
E1	=		
e min	=		
delta	=		
f	=		
beta	=		

Powder Chamber

P1	=	6.58
P2*	=	6.58

Junction Cone

alpha*	=	50°
S*	=	27.28
r1 min	=	1.14
r2	=	1.78

Collar

H1*	=	5.72
H2 ¹⁾	=	5.72

Projectile

G1 ¹⁾	=	5.21
G2	=	
F	=	
L3+G ¹⁾	=	29.23

Pressures (Energies)

Method Crusher

Pmax	=	2550 bar
PK	=	2933 bar
PE	=	3315 bar
M	=	27.71

Miscellaneous Dimensions

Fe ¹⁾	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 ¹⁾	=	20.32
L2	=	21.24
L3 ¹⁾	=	26.04

Breech

R ¹⁾	=	1.26
R1	=	8.31
R2	=	
R3	=	
r	=	0.30

Powder Chamber

E	=	
P1 ¹⁾	=	6.63
P2*	=	6.61

Junction Cone

alpha*	=	50°
S*	=	27.41
r1 max	=	1.14
r2	=	1.91

Collar

H1*	=	5.75
H2 ¹⁾	=	5.74

Commencement of Rifling

G1*	=	5.23
G	=	3.32
alpha1*	=	90°
h	=	0.26
s	=	
i*	=	1°30'
w	=	

Barrel

F ¹⁾ *	=	5.07
Z ¹⁾	=	5.19

Grooves

b	=	2.08
N	=	6
u	=	305.00
Q	=	20.96 mm ²

Scale 1.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**5,6mm (22) Flobert à balle**

Country of Origin: IT/DE

TAB.

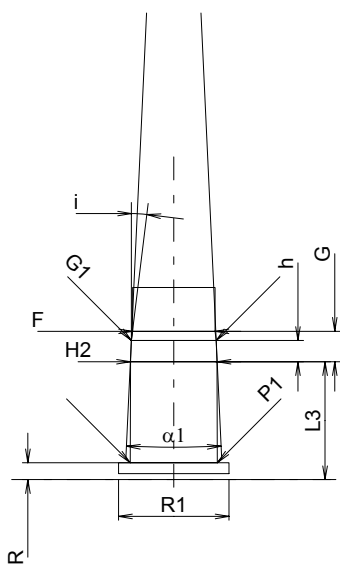
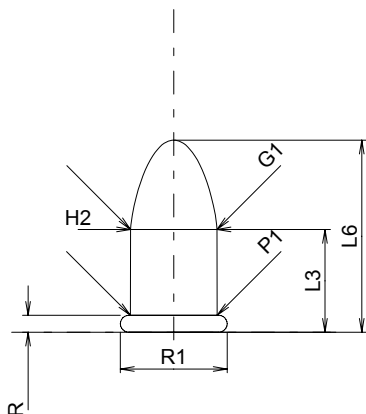
V

Date

84-06-14

Revision

00-06-07

**CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	6.80
L4	=	
L5	=	
L6	=	12.70

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.74
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.73

Projectile

G1 ¹⁾	=	5.71
G2	=	
F	=	
L3+G ¹⁾	=	8.81

Pressures (Energies)**Energy**

E _{max}	=	70.0 Joule
E _K	=	74.9 Joule
E _E	=	77.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.80

Breech

R ¹⁾	=	1.12
R1	=	7.30
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.73

Commencement of Rifling

G1 [*]	=	5.60
G [*]	=	2.01
α1	=	5°18'58"
h [*]	=	1.40
s	=	
i	=	7°00'33"
w	=	

Barrel

F ^{1)*}	=	5.45
Z ¹⁾	=	5.60

Grooves

b	=	1.25
N	=	6
u	=	450.00
Q	=	23.90 mm ²

Scale 2:1

Dimensions in << mm >>
 Dimensions and Tolerances for Proof Barrels
 see Appendix CR 2.

Notes: 1) Check for safety reasons
 * Basic dimensions

C.I.P.**5,6 mm Flobert à plombs SC**

Country of Origin: IT/DE

TAB.

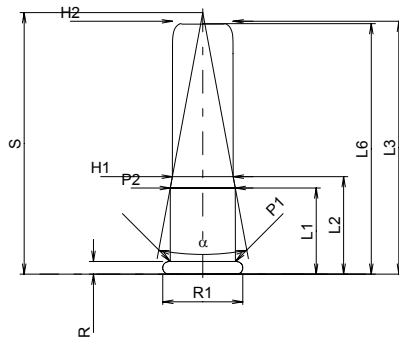
V

Date

84-06-14

Revision

00-06-07

**CARTRIDGE MAXI****Lengths**

L1 *	=	7.60
L2 *	=	8.60
L3 ¹⁾	=	22.30
L4	=	
L5	=	
L6	=	22.10

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
delta	=		
f	=		
beta	=		

Powder Chamber

P1	=	5.74
P2 *	=	5.72

Junction Cone

alpha	=	20°57'45"
S	=	23.06
r1 min	=	
r2	=	

Collar

H1 *	=	5.35
H2 ¹⁾	=	5.33

Projectile

G1	=	
G2	=	
F	=	5.50
L1+G ¹⁾	=	9.00

Pressures (Energies)**Energy**

E _{max}	=	100 Joule
E _K	=	107 Joule
E _E	=	110 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.80

Breech

R ¹⁾	=	1.12
R1	=	7.30
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

alpha	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.73

Commencement of Rifling

G1 *	=	5.73
G *	=	1.40
alpha1	=	
h	=	
s	=	
i	=	4°41'44"
w	=	

Barrel

F ¹⁾ *	=	5.50
Z ¹⁾	=	5.50

Grooves

b	=	
N	=	
u	=	
Q	=	23.76 mm ²

Scale 1.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**5,6 mm Flobert à plombs DC**

Country of Origin: IT/DE

TAB.

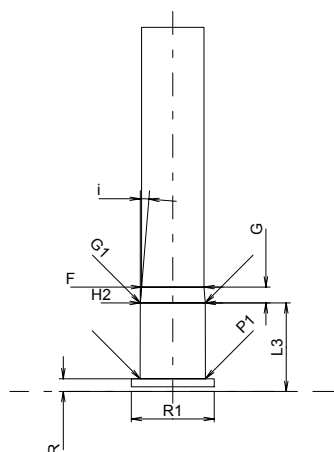
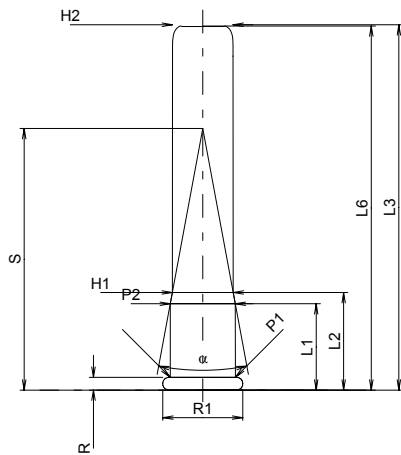
V

Date

84-06-14

Revision

00-06-07

**CARTRIDGE MAXI****Lengths**

L1 *	=	7.60
L2 *	=	8.60
L3 ¹⁾	=	32.20
L4	=	
L5	=	
L6	=	32.10

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.74
P2 *	=	5.72

Junction Cone

α	=	20°57'45"
S	=	23.06
r1 min	=	
r2	=	

Collar

H1 *	=	5.35
H2 ¹⁾	=	5.33

Projectile

G1	=	
G2	=	
F	=	5.50
L1+G ¹⁾	=	9.00

Pressures (Energies)**Energy**

E _{max}	=	100 Joule
E _K	=	107 Joule
E _E	=	110 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.80

Breech

R ¹⁾	=	1.12
R1	=	7.30
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.73

Commencement of Rifling

G1 *	=	5.73
G *	=	1.40
α1	=	
h	=	
s	=	
i	=	4°41'44"
w	=	

Barrel

F ¹⁾ *	=	5.50
Z ¹⁾	=	5.50

Grooves

b	=	
N	=	
u	=	
Q	=	23.76 mm ²

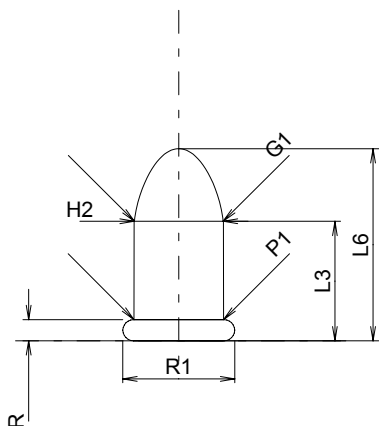
Scale 1.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**6mm Flobert à balle**TAB. **V**Date **84-06-14**

Country of Origin: FR

Revision **00-06-07****CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.90
L4	=	
L5	=	
L6	=	12.70

Case Head

R ¹⁾	=	1.40	-0.18
R1	=	7.40	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.92
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.90

Projectile

G1 ¹⁾	=	5.87
G2	=	
F	=	
L3+G ¹⁾	=	10.00

Pressures (Energies)**Energy**

E _{max}	=	70.0 Joule
E _K	=	74.9 Joule
E _E	=	77.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.90

Breech

R ¹⁾	=	1.40
R1	=	7.55
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.93
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.90

Commencement of Rifling

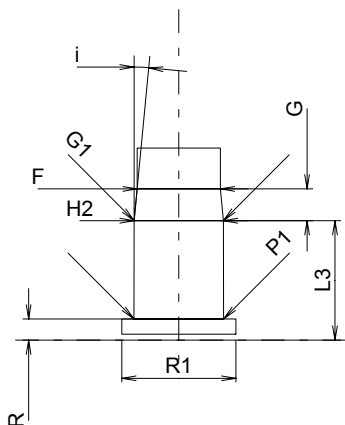
G1 [*]	=	5.90
G [*]	=	2.10
α1	=	
h	=	
s	=	
i	=	5°26'25"
w	=	

Barrel

F ¹⁾ *	=	5.50
Z ¹⁾	=	5.50

Grooves

b	=	
N	=	
u	=	
Q	=	23.76 mm ²



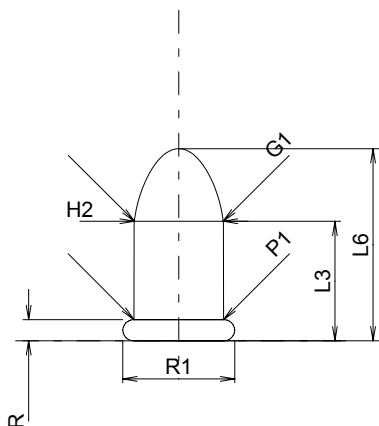
Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**6mm Flobert à balle DC**TAB. **V**Date **84-06-14**Revision **00-06-07**

Country of Origin: FR

**CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.90
L4	=	
L5	=	
L6	=	12.70

Case Head

R ¹⁾	=	1.40	-0.18
R1	=	7.40	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.92
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.90

Projectile

G1 ¹⁾	=	5.87
G2	=	
F	=	
L3+G ¹⁾	=	10.00

Pressures (Energies)**Energy**

E _{max}	=	70.0 Joule
E _K	=	74.9 Joule
E _E	=	77.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	7.90

Breech

R ¹⁾	=	1.40
R1	=	7.55
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.93
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.90

Commencement of Rifling

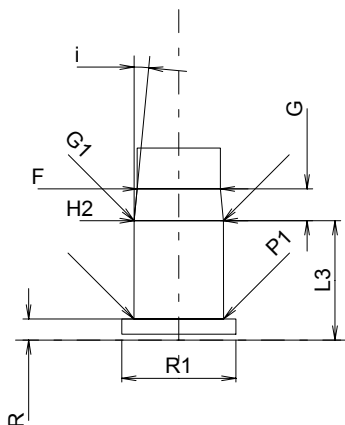
G1 [*]	=	5.90
G [*]	=	2.10
α1	=	
h	=	
s	=	
i	=	5°26'25"
w	=	

Barrel

F ¹⁾ *	=	5.50
Z ¹⁾	=	5.50

Grooves

b	=	
N	=	
u	=	
Q	=	23.76 mm ²



Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**6mm ME Flobert court**

TAB.

V

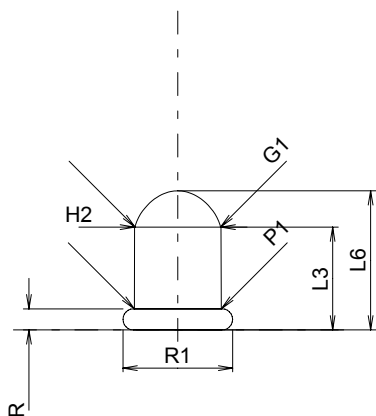
Date

96-01-24

Revision

00-06-07

Country of Origin: DE

**CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	6.80
L4	=	
L5	=	
L6	=	9.20

Case Head

R ¹⁾	=	1.40	-0.18
R1	=	7.25	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.75
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.73

Projectile

G1 ¹⁾	=	5.65
G2	=	
F	=	
L3+G ¹⁾	=	7.60

Pressures (Energies)**Miscellaneous Dimensions**

Fe	=	
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	8.40

Breech

R ¹⁾	=	1.40
R1	=	7.55
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.73

Commencement of Rifling

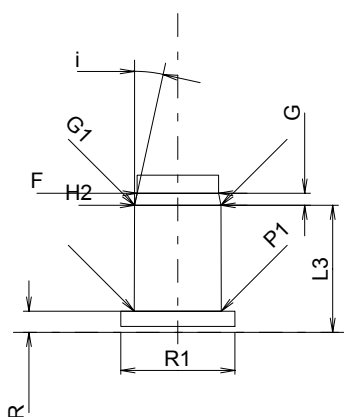
G1 [*]	=	5.73
G [*]	=	0.80
α1	=	
h	=	
s	=	
i	=	12°20'24"
w	=	

Barrel

F ¹⁾ *	=	5.38
Z ¹⁾	=	5.38

Grooves

b	=	2.16
N	=	6
u	=	406.00
Q	=	24.06 mm ²



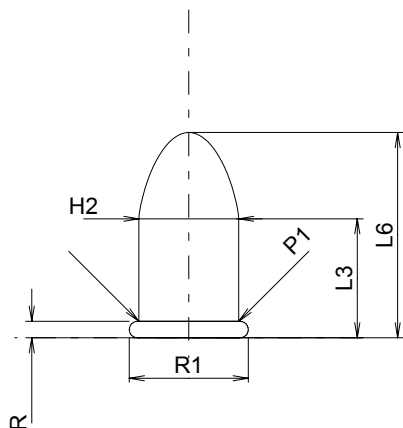
Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**9mm Flobert à balle**TAB. **V**Date **84-06-14**Revision **00-06-07**

Country of Origin: FR

**CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	10.50
L4	=	
L5	=	
L6	=	18.10

Case Head

R ¹⁾	=	1.45	-0.18
R1	=	10.50	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	8.80
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	8.80

Projectile

G1 ¹⁾	=	8.80
G2	=	
F	=	
L3+G ¹⁾	=	13.02

Pressures (Energies)**Energy**

E _{max}	=	100 Joule
E _K	=	107 Joule
E _E	=	110 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	10.50

Breech

R ¹⁾	=	1.45
R1	=	10.70
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	8.85
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	8.80

Commencement of Rifling

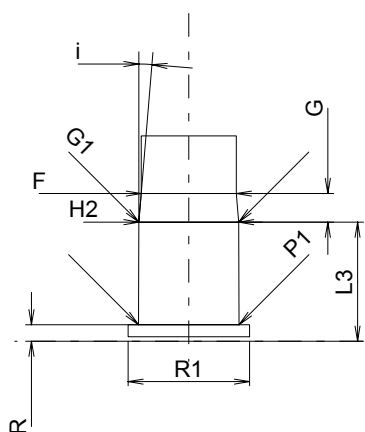
G1 [*]	=	8.80
G [*]	=	2.52
α1	=	
h	=	
s	=	
i	=	4°45'49"
w	=	

Barrel

F ¹⁾ *	=	8.38
Z ¹⁾	=	8.38

Grooves

b	=	
N	=	
u	=	
Q	=	55.15 mm ²



Scale 1.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**9mm Flobert à plombs Carton**

Country of Origin: FR

TAB.

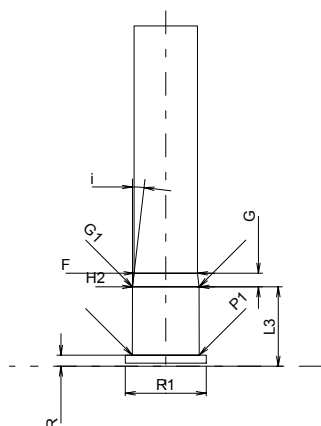
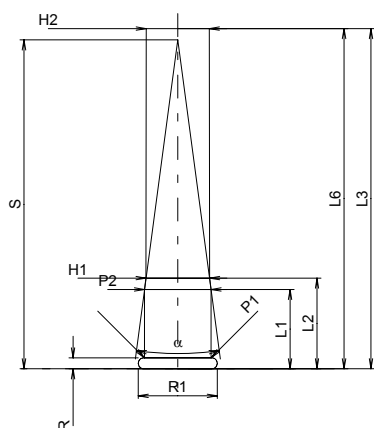
V

Date

84-06-14

Revision

00-06-07

**CARTRIDGE MAXI****Lengths**

L1 *	=	10.50
L2 *	=	12.00
L3 ¹⁾	=	45.00
L4	=	
L5	=	
L6	=	45.00

Case Head

R ¹⁾	=	1.45	-0.18
R1	=	10.45	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	8.80
P2 *	=	8.80

Junction Cone

α	=	15°11'24"
S	=	43.50
r1 min	=	
r2	=	

Collar

H1 *	=	8.40
H2 ¹⁾	=	8.35

Projectile

G1	=	
G2	=	
F	=	
L1+G ¹⁾	=	12.30

Pressures (Energies)**Method Crusher**

Pmax	=	900 bar
PK	=	1035 bar
PE	=	1170 bar
M	=	12.50

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	10.50

Breech

R ¹⁾	=	1.45
R1	=	10.70
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	8.85
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	8.80

Commencement of Rifling

G1 *	=	8.80
G *	=	1.80
α1	=	
h	=	
s	=	
i	=	6°39'15"
w	=	

Barrel

F ¹⁾ *	=	8.38
Z ¹⁾	=	8.38

Grooves

b	=	
N	=	
u	=	
Q	=	55.15 mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**9mm Flobert à plombs Metal**

TAB.

V

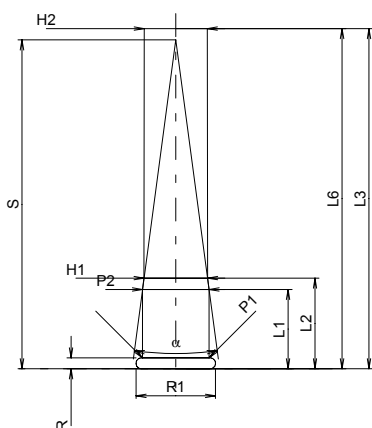
Date

84-06-14

Revision

00-06-07

Country of Origin: FR

**CARTRIDGE MAXI****Lengths**

L1 *	=	10.50
L2 *	=	12.00
L3 ¹⁾	=	45.00
L4	=	
L5	=	
L6	=	45.00

Case Head

R ¹⁾	=	1.45	-0.18
R1	=	10.50	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	8.80
P2 *	=	8.80

Junction Cone

α	=	15°11'24"
S	=	43.50
r1 min	=	
r2	=	

Collar

H1 *	=	8.40
H2 ¹⁾	=	8.35

Projectile

G1 ¹⁾	=	
G2	=	
F	=	
L1+G ¹⁾	=	12.30

Pressures (Energies)**Method Crusher**

Pmax	=	900 bar
PK	=	1035 bar
PE	=	1170 bar
M	=	12.50

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	10.50

Breech

R ¹⁾	=	1.45
R1	=	10.70
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	8.85
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	8.80

Commencement of Rifling

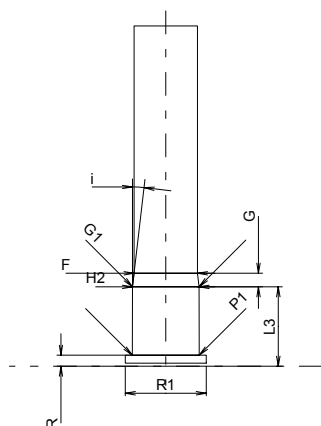
G1 *	=	8.80
G *	=	1.80
α1	=	
h	=	
s	=	
i	=	6°39'15"
w	=	

Barrel

F ¹⁾ *	=	8.38
Z ¹⁾	=	8.38

Grooves

b	=	
N	=	
u	=	
Q	=	55.15 mm ²



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

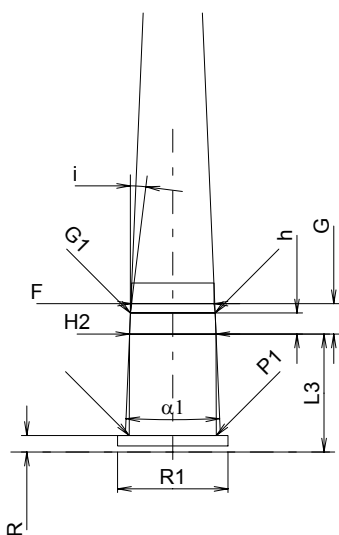
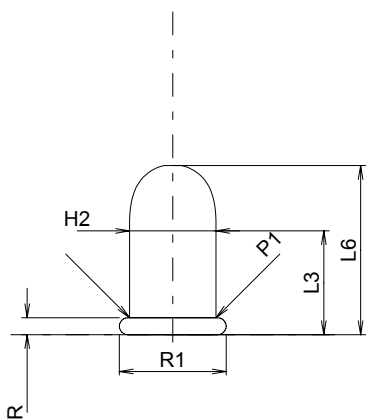
22 BB Cap

Country of Origin: US

TAB. V

Date 84-06-13

Revision 00-06-07



Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	6.86
L4	=	
L5	=	
L6	=	11.18

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.72
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Projectile

G1 ¹⁾	=	5.72
G2	=	
F	=	
L3+G ¹⁾	=	8.87

Pressures (Energies)

Energy

E _{max}	=	70.0 Joule
E _K	=	74.9 Joule
E _E	=	77.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	7.80

Breech

R ¹⁾	=	1.10
R1	=	7.30
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Commencement of Rifling

G1 [*]	=	5.60
G	=	2.01
α1 [*]	=	4°54'28"
h	=	1.40
s	=	
i [*]	=	7°00'33"
w	=	

Barrel

F ¹⁾ *	=	5.45
Z ¹⁾	=	5.60

Grooves

b	=	1.25
N	=	6
u	=	450.00
Q	=	23.90 mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

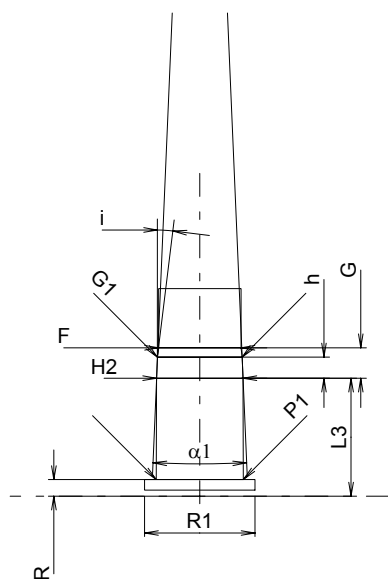
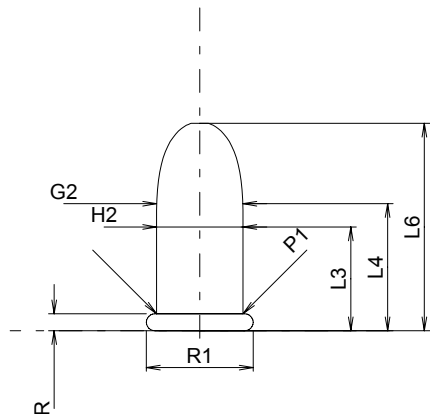
22 CB Cap

Country of Origin: US

TAB. V

Date 84-06-13

Revision 00-06-07



CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	6.86
L4	=	8.40
L5	=	
L6	=	13.72

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
delta	=		
f	=		
beta	=		

Powder Chamber

P1	=	5.72
P2	=	

Junction Cone

alpha	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Projectile

G1 ¹⁾	=	5.72
G2	=	5.72
F	=	
L3+G ¹⁾	=	8.87

Pressures (Energies)

Energy

E _{max}	=	70.0 Joule
E _K	=	74.9 Joule
E _E	=	77.0 Joule

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	7.80

Breech

R ¹⁾	=	1.10
R1	=	7.30
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

alpha	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Commencement of Rifling

G1 *	=	5.60
G	=	2.01
alpha 1 *	=	4°54'28"
h	=	1.40
s	=	
i *	=	7°00'33"
w	=	

Barrel

F ¹⁾ *	=	5.45
Z ¹⁾	=	5.60

Grooves

b	=	1.25
N	=	6
u	=	450.00
Q	=	23.90 mm ²

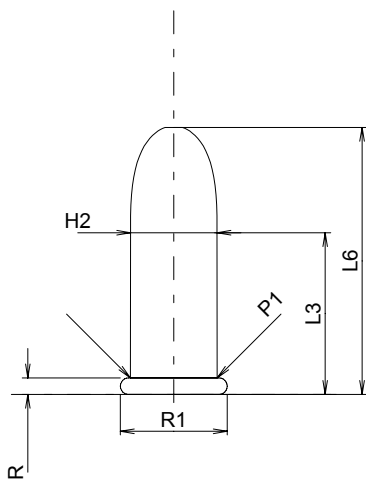
Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**22 Short**TAB. **V**Date **84-06-14**

Country of Origin: US

Revision **00-06-07****CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	10.69
L4	=	
L5	=	
L6	=	17.65

Case Head

R ¹⁾	=	1.09	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.74
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Projectile

G1 ¹⁾	=	5.72
G2	=	
F	=	
L3+G ¹⁾	=	12.63

Pressures (Energies)**Method Crusher**

Pmax	=	1450 bar
PK	=	1668 bar
PE	=	1885 bar
M	=	12.49

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	12.04

Breech

R ¹⁾	=	1.09
R1	=	7.32
R2	=	
R3	=	
r	=	0.25

Powder Chamber

E	=	
P1 ¹⁾	=	5.75
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Commencement of Rifling

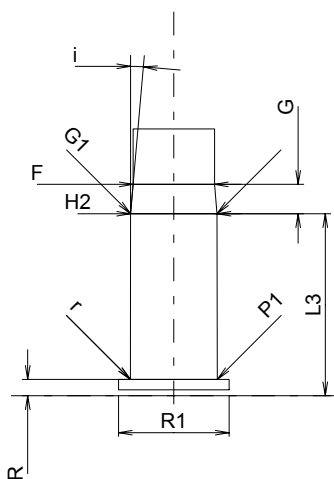
G1 [*]	=	5.72
G	=	1.94
α1	=	
h	=	
s	=	
i [*]	=	5°
w	=	

Barrel

F ¹⁾ *	=	5.38
Z ¹⁾	=	5.58

Grooves

b	=	2.16
N	=	6
u	=	406.00
Q	=	24.06 mm ²



Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

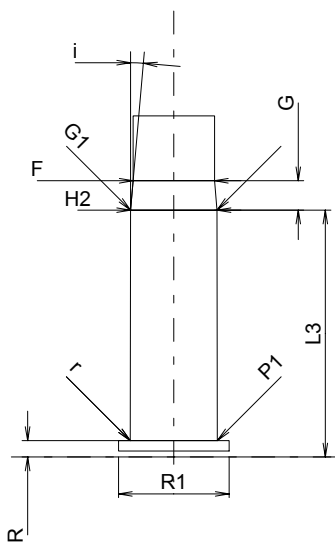
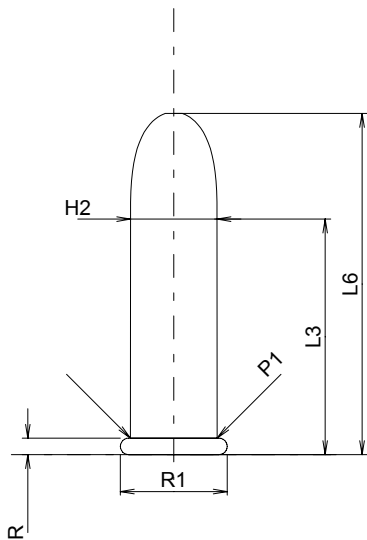
22 Long

Country of Origin: US

TAB. V

Date 84-06-14

Revision 00-06-07



CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	15.57
L4	=	
L5	=	
L6	=	22.56

Case Head

R ¹⁾	=	1.09	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.74
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Projectile

G1 ¹⁾	=	5.72
G2	=	
F	=	
L3+G ¹⁾	=	17.51

Pressures (Energies)

Method Crusher

Pmax	=	1000 bar
PK	=	1150 bar
PE	=	1300 bar
M	=	17.37

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	16.33

Breech

R ¹⁾	=	1.09
R1	=	7.32
R2	=	
R3	=	
r	=	0.25

Powder Chamber

E	=	
P1 ¹⁾	=	5.76
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Commencement of Rifling

G1 [*]	=	5.72
G	=	1.94
α1	=	
h	=	
s	=	
i [*]	=	5°
w	=	

Barrel

F ¹⁾ *	=	5.38
Z ¹⁾	=	5.58

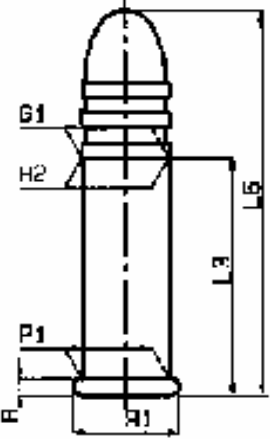
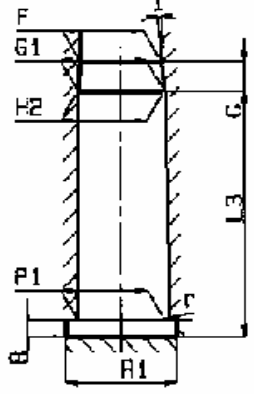
Grooves

b	=	2.16
N	=	6
u	=	406.00
Q	=	24.06 mm ²

Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	22 Long Rifle Country of origin: US	TAB.	V
		Date	84-06-14
		Revision	00-06-07
	<p style="text-align: center;">CARTRIDGE MAXI</p> <p>Lengths</p> L1 = L2 = L3 ¹⁾ = 15.57 L4 = L5 = L6 = 25.40 <p>Case Head</p> R ¹⁾ = 1.09 -0.18 R1 = 7.06 R3 = E = E1 = e min = δ = f = β = <p>Powder Chamber</p> P1 = 5.74 P2 = <p>Junction cone</p> α = S = r1 min = r2 = <p>Collar</p> H1 = H2 ¹⁾ = 5.72 <p>Projectile</p> G1 ¹⁾ = 5.72 G2 = F = L3+G ¹⁾ = 17.51 <p>Pressures (Energies) Method Crusher (Conformal)</p> Pmax = 2050 bar PK = 2358 bar PE = 2665 bar M = 17.37 <p>Miscellaneous Dimensions</p> Fe ¹⁾ = 0.20 delta L =	<p style="text-align: center;">CHAMBER MINI</p> <p>Lengths</p> L1 = L2 = L3 ¹⁾ = 16,33 <p>Breech</p> R ¹⁾ = 1.09 R1 = 7.32 R2 = R3 = r = 0.25 <p>Powder Chamber</p> E = P1 ¹⁾ = 5.76 P2 = <p>Junction cone</p> α = S = r1 max = r2 = <p>Collar</p> H1 = H2 ¹⁾ = 5.72 <p>Commencement of Rifling</p> G1* = 5.72 G = 1.94 α1 = h = s = i* = 5° w = <p>Barrel</p> F ¹⁾ * = 5.38 Z ¹⁾ = 5.58 <p>Grooves</p> b = 2.16 N = 6 u = 406.00 Q = 24.06 mm ²	
			
Scale 2 :1			
Dimensions in « mm » Dimensions and Tolerances for Proof Barrels See Appendix CR 2.		Notes : 1) Check for safety reasons * Basic dimensions	

C.I.P.

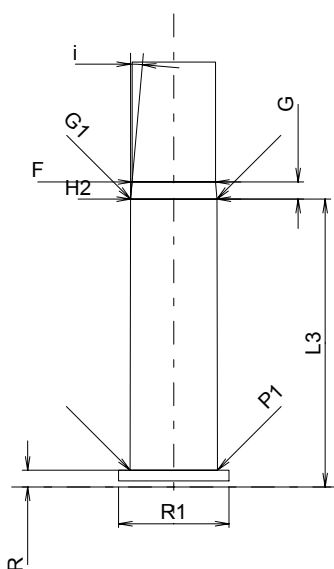
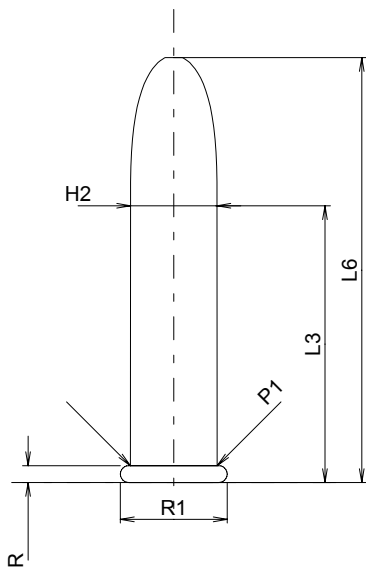
22 Extra Long

Country of Origin: US

TAB. V

Date 84-06-14

Revision 00-06-07



Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	18.30
L4	=	
L5	=	
L6	=	28.10

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.74
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Projectile

G1 ¹⁾	=	5.72
G2	=	
F	=	
L3+G ¹⁾	=	19.44

Pressures (Energies)

Method Crusher

Pmax	=	1400 bar
PK	=	1610 bar
PE	=	1820 bar
M	=	20.10

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	19.03

Breech

R ¹⁾	=	1.10
R1	=	7.30
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	
P1 ¹⁾	=	5.78
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.72

Commencement of Rifling

G1*	=	5.72
G	=	1.14
α1	=	
h	=	
s	=	
i*	=	5°
w	=	

Barrel

F ¹⁾ *	=	5.52
Z ¹⁾	=	5.58

Grooves

b	=	2.16
N	=	6
u	=	406.00
Q	=	24.33 mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

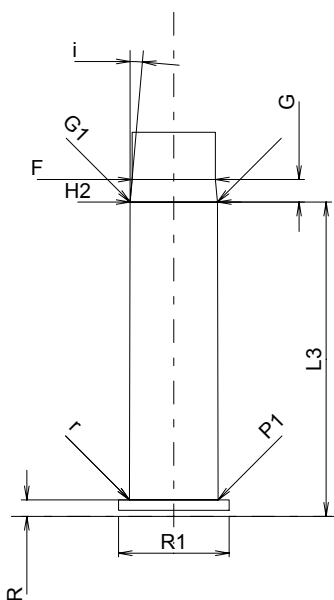
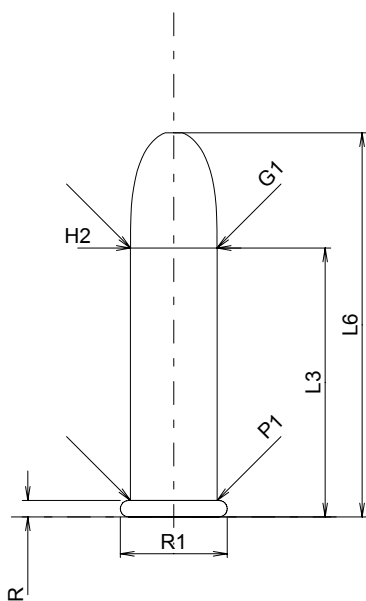
22 Extra L.R.

Country of Origin: US

TAB. V

Date 89-09-08

Revision 00-06-07



Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	17.78
L4	=	
L5	=	
L6	=	25.40

Case Head

R ¹⁾	=	1.09	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	5.74
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.74

Projectile

G1 ¹⁾	=	5.73
G2	=	
F	=	
L3+G ¹⁾	=	19.27

Pressures (Energies)

Method Crusher

Pmax	=	1800 bar
PK	=	2070 bar
PE	=	2340 bar
M	=	19.58

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	20.78

Breech

R ¹⁾	=	1.09
R1	=	7.32
R2	=	
R3	=	
r	=	0.13

Powder Chamber

E	=	
P1 ¹⁾	=	5.86
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.77

Commencement of Rifling

G1*	=	5.77
G	=	1.49
α1	=	
h	=	
s	=	
i*	=	5°
w	=	

Barrel

F ¹⁾ *	=	5.51
Z ¹⁾	=	5.64

Grooves

b	=	2.16
N	=	6
u	=	406.00
Q	=	24.71 mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

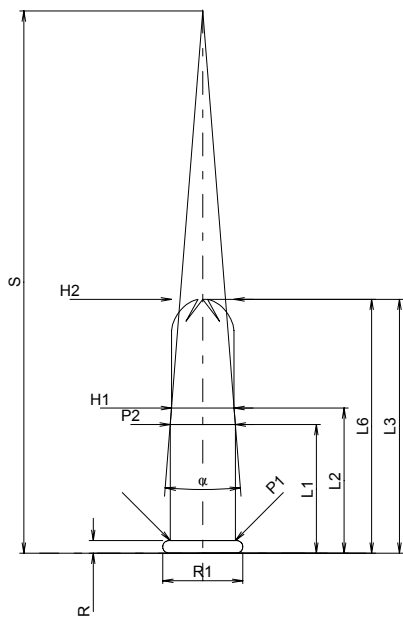
22 Long Shot

Country of Origin: US

TAB. V

Date 84-06-14

Revision 00-06-07

**CARTRIDGE MAXI****Lengths**

L1	=	11.34
L2	=	12.79
L3	=	22.38
L4	=	
L5	=	
L6	=	22.38

Case Head

R ¹⁾	=	1.12	-0.18
R1	=	7.06	
R3	=		
E	=		
E1	=		
e min	=		
delta	=		
f	=		
beta	=		

Powder Chamber

P1	=	5.74
P2*	=	5.74

Junction Cone

alpha*	=	9°
S*	=	47.81
r1 min	=	
r2	=	

Collar

H1*	=	5.51
H2 ¹⁾	=	5.51

Projectile

G1	=	
G2	=	
F	=	
L1+G	=	

Pressures (Energies)**Method Crusher**

Pmax	=	1400 bar
PK	=	1610 bar
PE	=	1820 bar
M	=	24.18

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	20.45

Breech

R ¹⁾	=	1.12
R1	=	7.32
R2	=	
R3	=	
r	=	0.13

Powder Chamber

E	=	
P1 ¹⁾	=	5.78
P2	=	

Junction Cone

alpha	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	5.68

Commencement of Rifling

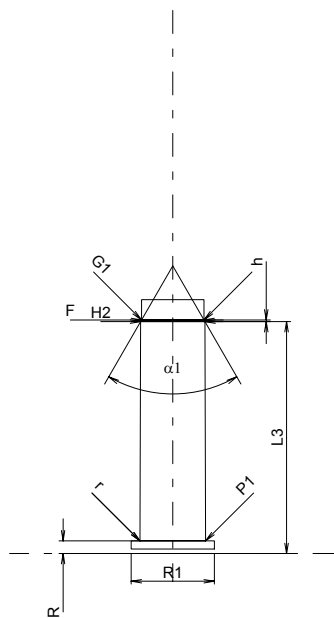
G1*	=	5.51
G	=	
alpha1*	=	60°
h	=	0.15
s	=	
i	=	
w	=	

Barrel

F ¹⁾ *	=	5.51
Z ¹⁾	=	5.51

Grooves

b	=	
N	=	
u	=	
Q	=	23.81 mm ²



Scale 1.5:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

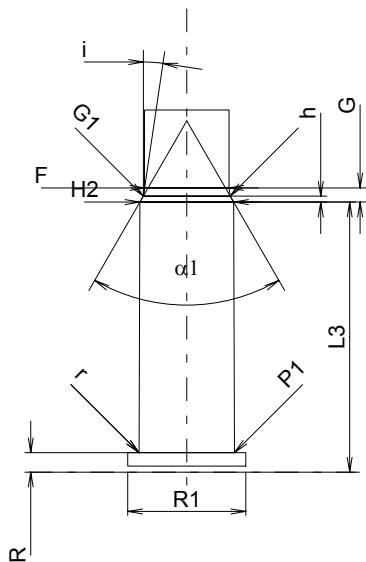
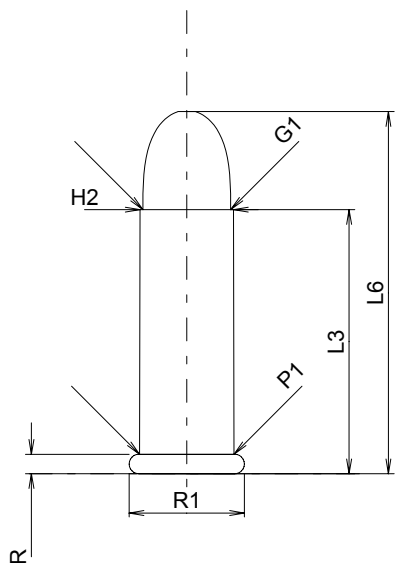
22 Rem. Auto

Country of Origin: US

TAB. V

Date 84-06-14

Revision 00-06-07



CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	17.47
L4	=	
L5	=	
L6	=	23.95

Case Head

R ¹⁾	=	1.29	-0.18
R1	=	7.62	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	6.23
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.18

Projectile

G1 ¹⁾	=	5.80
G2	=	
F	=	
L3+G ¹⁾	=	18.41

Pressures (Energies)

Method Crusher

Pmax	=	1600 bar
PK	=	1840 bar
PE	=	2080 bar
M	=	19.27

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	17.86

Breech

R ¹⁾	=	1.29
R1	=	7.80
R2	=	
R3	=	
r	=	0.13

Powder Chamber

E	=	
P1 ¹⁾	=	6.31
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.20

Commencement of Rifling

G1 [*]	=	5.74
G	=	0.94
α_1^*	=	60°
h	=	0.40
s	=	
i^*	=	8°27'29"
w	=	

Barrel

F ¹⁾ *	=	5.58
Z ¹⁾	=	5.74

Grooves

b	=	
N	=	
u	=	
Q	=	mm ²

Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

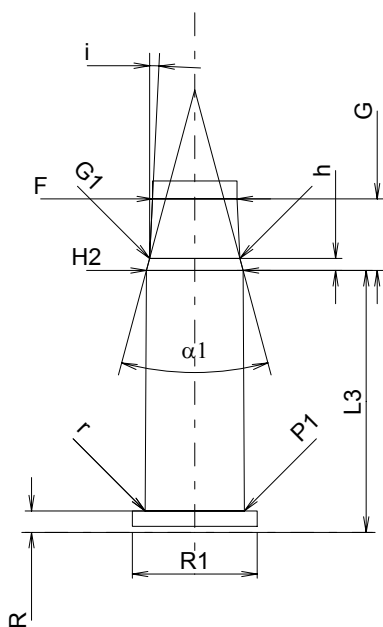
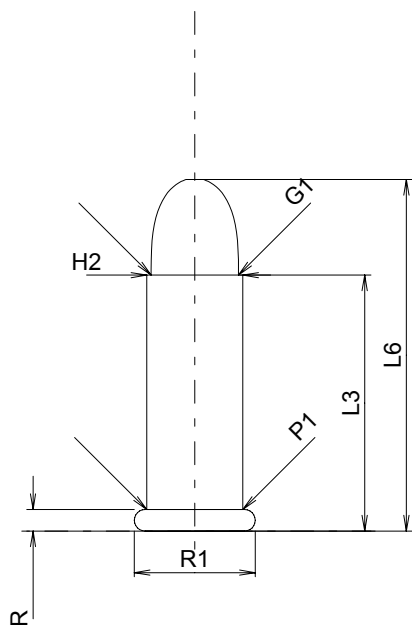
22 Win. Auto

Country of Origin: US

TAB. V

Date 84-06-14

Revision 00-06-07



CARTRIDGE MAXI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	16.92
L4	=	
L5	=	
L6	=	23.24

Case Head

R ¹⁾	=	1.42	-0.18
R1	=	8.00	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	6.36
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.36

Projectile

G1 ¹⁾	=	5.78
G2	=	
F	=	
L3+G ¹⁾	=	21.65

Pressures (Energies)

Method Crusher

Pmax	=	1000 bar
PK	=	1150 bar
PE	=	1300 bar
M	=	18.72

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI

Lengths

L1	=	
L2	=	
L3 ¹⁾	=	17.32

Breech

R ¹⁾	=	1.42
R1	=	8.26
R2	=	
R3	=	
r	=	0.13

Powder Chamber

E	=	
P1 ¹⁾	=	6.55
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.40

Commencement of Rifling

G1*	=	5.97
G	=	4.73
α_1^*	=	30°
h	=	0.80
s	=	
i*	=	2°46'
w	=	

Barrel

F ¹⁾ *	=	5.59
Z ¹⁾	=	5.74

Grooves

b	=	1.70
N	=	6
u	=	356.00
Q	=	25.32 mm ²

Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.**22 Win. R.F. et 22 Rem. Spl.**

TAB.

V

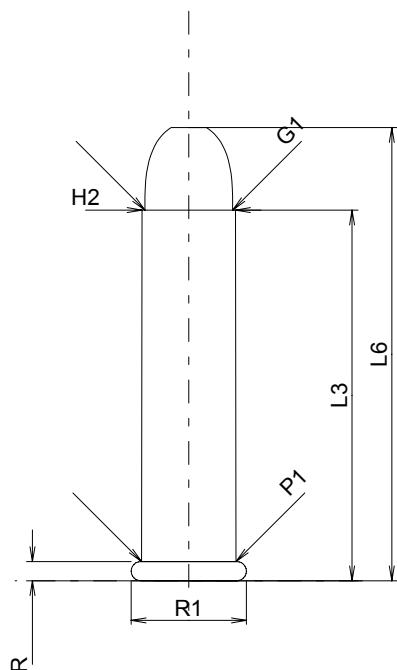
Date

84-06-14

Revision

00-06-07

Country of Origin: US

**CARTRIDGE MAXI****Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	24.51
L4	=	
L5	=	
L6	=	29.97

Case Head

R ¹⁾	=	1.27	-0.18
R1	=	7.62	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	6.24
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.18

Projectile

G1 ¹⁾	=	5.80
G2	=	
F	=	
L3+G ¹⁾	=	25.65

Pressures (Energies)**Method Crusher**

Pmax	=	1150 bar
PK	=	1323 bar
PE	=	1495 bar
M	=	26.31

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI**Lengths**

L1	=	
L2	=	
L3 ¹⁾	=	24.89

Breech

R ¹⁾	=	1.27
R1	=	7.87
R2	=	
R3	=	
r	=	0.13

Powder Chamber

E	=	
P1 ¹⁾	=	6.25
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.20

Commencement of Rifling

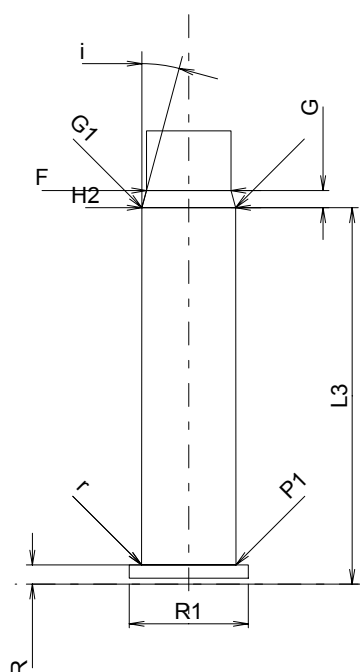
G1*	=	6.20
G	=	1.14
α1	=	
h	=	
s	=	
i*	=	15°
w	=	

Barrel

F ¹⁾ *	=	5.59
Z ¹⁾	=	5.74

Grooves

b	=	1.76
N	=	6
u	=	356.00
Q	=	25.35 mm ²



Scale 2:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 2.

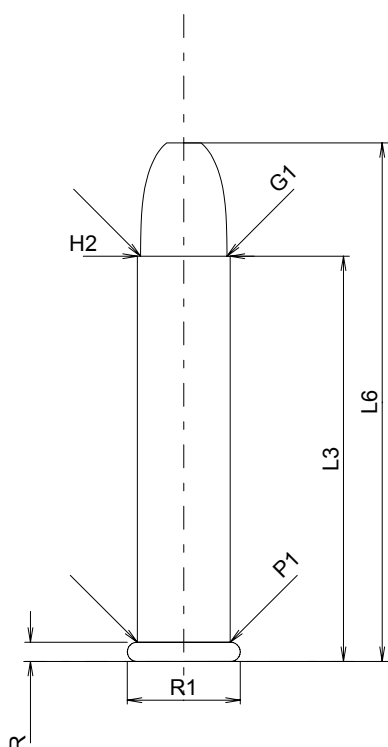
Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

22 Win. Mag. R.F.

TAB. V
Date 84-06-14
Revision 00-06-07

Country of Origin: US


CARTRIDGE MAXI
Lengths

L1	=	
L2	=	
L3 ¹⁾	=	26.80
L4	=	
L5	=	
L6	=	34.29

Case Head

R ¹⁾	=	1.27	-0.18
R1	=	7.47	
R3	=		
E	=		
E1	=		
e min	=		
δ	=		
f	=		
β	=		

Powder Chamber

P1	=	6.15
P2	=	

Junction Cone

α	=	
S	=	
r1 min	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.15

Projectile

G1 ¹⁾	=	5.70
G2	=	
F	=	
L3+G ¹⁾	=	31.39

Pressures (Energies)
Method Crusher

Pmax	=	1900 bar
PK	=	2185 bar
PE	=	2470 bar
M	=	28.60

Miscellaneous Dimensions

Fe ¹⁾	=	0.20
delta L	=	

CHAMBER MINI
Lengths

L1	=	
L2	=	
L3 ¹⁾	=	27.18

Breech

R ¹⁾	=	1.27
R1	=	7.67
R2	=	
R3	=	
r	=	0.25

Powder Chamber

E	=	
P1 ¹⁾	=	6.20
P2	=	

Junction Cone

α	=	
S	=	
r1 max	=	
r2	=	

Collar

H1	=	
H2 ¹⁾	=	6.17

Commencement of Rifling

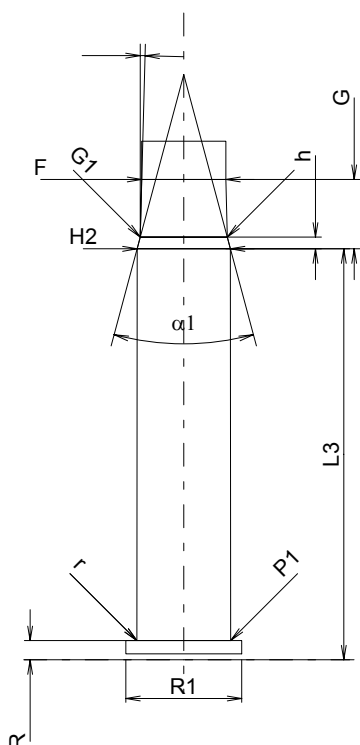
G1*	=	5.76
G	=	4.59
α1*	=	30°
h	=	0.77
s	=	
i*	=	1°30'
w	=	

Barrel

F ¹⁾ *	=	5.56
Z ¹⁾	=	5.69

Grooves

b	=	1.88
N	=	6
u	=	406.00
Q	=	25.03 mm ²



Scale 2:1

Dimensions in << mm >>
 Dimensions and Tolerances for Proof Barrels
 see Appendix CR 2.

Notes: 1) Check for safety reasons
 * Basic dimensions