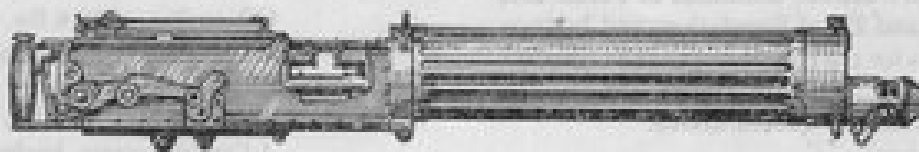


RESTRICTED

VICKERS M.G. (.303 IN.)

DATA SUMMARY

Guns Machine Vickers 303 in., Mk. 1



GUNS MACHINE VICKERS .303", Mk. 1

Method of Feed

1. Fabric belt from right side.

Belt

2. Capacity—250 rounds.
Construction—canvas with brass separating strips.

Weight

3. Empty—30 lbs.
With water—40 lbs. (approx.)

Length

4. 3 ft., 7 $\frac{1}{2}$ in.

Barrel

5. Length—28.4 in.
Calibre—.303 in.
Rifling—number of grooves—5,
twist—1 turn in 10 in.
direction—to the left
depth—.005 in. to .008 in.
width of lands—.0936 in.

Sights

6. Type—aperture and blade.
Range adjustment—using Plate, Graduated,
Tangent Sight, No. 2 Mk. 1 for Mk. 7
ammunition—100 to 2900 yd.
Range adjustment—using Plate, Graduated,
Tangent Sight, No. 2 Mk. 2 for Mk. 8z
ammunition—100 to 3700 yd.
Sight base—(radius)—36 in. (approx.)

Cyclic Rate of Fire

7. 450 to 550 rounds per minute.

Method of Breech Locking

8. Toggle joint.

System of Operation

9. Recoil, gas assisted.

Change Lever

10. Nil—full automatic only.

Type of Cooling

11. Liquid cooling.

Capacity of Barrel Casing

12. 7 pints (approx.)

Number of Rounds Required to Boil Water

13. 600 (continuous firing).

Rate of Evaporation

14. 1.5 pints per 1000 rounds.

Ammunition

15. Cartridges, S.A. Ball, .303 in., Mk. 7, Mk.
7z or Mk. 8z, or Tracer or A.P.
Ammunition details of Cartridges, S.A.,
Ball, .303 in., Mk. 8z:
Muzzle velocity—calculated at 90 ft.—
2440 \pm 40 f.p.s.
Chamber pressure—19 tons per sq. in.
(approx.)
Cartridge—rimmed,
colour of annulus—purple.
Bullet—nose—pointed,
base—flat,
form—"boat tail"—streamlined.
envelope—gilding metal.
core—lead and antimony 90/10.
weight—175 gr. (approx.)
Propellant—N.C.
charge—36.5 gr.
Extreme range—4500 yd.
Figure of merit—8 in. at 600 yd.

Gauges

16. Barrell—
see C.A.L.E.M.E.I., S.A.M.G., A 522

Instn. 1, Issue 2, d/19 May 44 and
C.A.L.E.M.E.I., S.A.M.G., E 503, Instn.
1, Issue 1, d/6 Sep. 44.

which set accuracy standards and lay
down gauging limits for various am-
munitions.

The Instructions contained in Paras. 236,
237 and 238 of Regulations and Instruc-
tions for the equipment of the Canadian
Militia, 1930 are superseded by the
instructions quoted above.

Headspace:

Min.—.064 in.

Max.—.074 in.

Firing Pin Hole—.088 in. reject.

Striker protrusion—.058 in. min.

.065 in. Max.

Gib—.058 in. (Min. rim thickness re-
tained).

Weights—Fusee spring—7 to 9 lb. (6 clicks
—1 lb. [approx.]

Feed Block Pawls—top and bot-
tom—1½ to 2½ lb. to start.

To move barrel when packed—4
to 6 lb.

Side levers—cocked—12 to 14 lb.

Gib spring—4 to 6 lbs.

With Blank Firing attachment—

Fusee spring—4.5 lb.

To move barrel—2 lbs.

Adjusting screw backed off 2½
turns.

Packing of cannellure—16 in.

Packing of gland—30 in.

Washers adjusting (headspace)—

No. 1—.003 in.

No. 2—.005 in.

END

C1731-0354

H.Q. 44-51-99 (DMIE)