

40 MM GRENADE LAUNCHER M79/M203

A. DESCRIPTION: The 40 MM Grenade Launcher, M79 is a single shot, break-open, breech loading and shoulder-fire weapon. It consists of a receiver group Bore-head assy, barrel group, sight assy, and stock assy. A rubber recoil pad is attached to the butt of the stock partially absorb the recoil. A sling is provided to carry the weapon.

B. DATA:

1. Weapon

Length of launcher (overall) ----- 29 in (approx)
Length of barrel group ----- 15 in (approx)
Length of barrel only ----- 14 in
Weight of launch loaded ----- 6.5 lbs (approx)

2. Ammunition

Caliber ----- 40 MM
Weight ----- .5 lbs (approx)

3. Operational characteristic

Action ----- break-open single shot
Sight: Front ----- blade
Rear ----- Folding leaf, adjustable
Chamber pressure ----- 3,000 lbs/sq in
Muzzle velocity ----- 250 ft/sec (76 m/sec)
Max range ----- 400 m (max)
Max eff range (area tgt) ----- 350 m
Max eff range (pt tgt) ----- 150 m
Minimum safe firing range:
Training ----- 80 m
Combat ----- 31 m

C. SIGHTING EQUIPMENT:

1. Rear sight assy: Consist of

- a. Rear sight lock – for up and down position .
- b. Windage screw and windage scale – one click of screw will move the impact of the grenade about 11 inches at a range 200 meters.
 - Screw clockwise – right windage turn
 - Screw counter clockwise – left windage turn
 - From center zero line and ten lines spaced usually on each side of the zero line.
 - 42 clicks right or left
- c. Elevation scale and lock screw – graduated from 75 to 375 meters in 25 meters increments and numbered at 100, 200, 300, and 375 meters.
- d. Sight carrier and retainer locknut .
- e. Elevating screw wheel and elevating screw
 - For fine adjustment in elevation
 - Clockwise turn – increases elevation
 - Counter clockwise turn – decreases elevation
 - One complete turn (1 click) will move the impact of the round about 2 ½ meters at a range of 200 meters.
- f. Rear sight frame with sight:
 - Sight frame in down position engage ranges up to 100 meters by its fixed sight

2. Front sight – consist of a tapered front sight blade guards.