

## Report

2025-08-23  
v0.39  
www.preciseload.com

### Warnings

- ! The calculated breech pressure is 3682 bar, which is 84% of the maximum allowable pressure for the 6 mm Dasher cartridge, as defined by CIP standards. This load is potentially unsafe.
- ! The current cartridge overall length is 61.49 mm, which exceeds the CIP standard of 60.00 mm. This may result in feeding malfunctions and inaccurate pressure estimates.
- i The dimensions of this bullet have been reviewed by users:
  - 1 user marked them as correct.
  - 0 users marked them as incorrect.
 Incorrect bullet dimensions can result in faulty simulations.

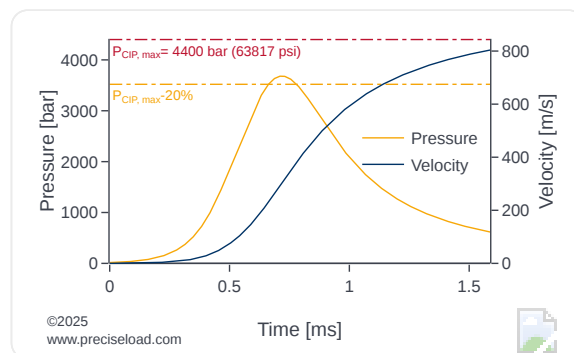
### Results

#### Results

Max Pressure	3682bar	53407psi
Muzzle Velocity	804m/s	2637fps
Muzzle Energy	2282J	1683ft-lbf
Total time	1.587ms	1.587ms
Propellant burned	83.2%	83.2%
Burnout time	-	-
Burnout distance	-	-
Miller Stability <sup>1</sup>	1.4-	1.4-

<sup>1</sup>For a stable bullet flight, aim for a Miller stability factor of 1.4 or higher (see the manual for details).

### Plot



### Input

Input		
Cartridge	6 mm Dasher	
Propellant	Vihtavuori N150 (V0.8)	
Charge mass	1944mg	30.0gr
Fill density	91.3%	91.3%
Bullet manufacturer	Berger	
Bullet caliber	.243 caliber (6 mm)	
Bullet mass	7.063g	109.0gr
Product line	Long Range Hybrid Target	
Bullet item no.	24485	
COL/L6	61.49mm	2.421"
Seating depth	10.19mm	0.401"
Guided seating depth	5.59mm	0.220"
Bullet jump	0.31mm	0.012"
Standard	CIP	
Case capacity	2.615ml	40.3gr
Barrel length	600.00mm	23.622"
Twist rate	198mm	1:7.8"
BC used	MCCoy_G7	
BC G1	0.568-	0.568-
BC G7	0.292-	0.292-

### Trajectory<sup>2</sup>

Range (m)	Time (s)	Drop (m)	Speed (m/s)	Energy (J)
0	0.000	0.000	803.8	2282
50	0.064	-0.020	777.8	2136
100	0.129	-0.080	752.3	1999
150	0.197	-0.183	727.3	1868
200	0.267	-0.333	702.8	1745
250	0.339	-0.532	679.0	1628
300	0.414	-0.784	655.5	1517
350	0.492	-1.095	632.4	1412
400	0.572	-1.466	609.8	1313
450	0.655	-1.903	587.7	1220
500	0.742	-2.410	566.1	1132
550	0.832	-2.995	544.7	1048
600	0.925	-3.661	523.8	969
650	1.023	-4.418	503.1	894
700	1.124	-5.272	482.9	823
750	1.230	-6.233	462.9	757
800	1.340	-7.303	443.4	694
850	1.456	-8.503	424.2	636

<sup>2</sup>For the trajectory calculations, the ICAO standard atmosphere and a shot angle of 0 degrees were utilized.

**⚠ Attention:** This application cannot calculate pressures accurately enough to determine a cartridge/round as safe. Before live firing, any load's pressure must be verified and measured by a proofing authority at all times. Failure to do so can result in firearm damage, property damage, severe injury, or even death. Any liability and warranty resulting directly or indirectly from the use of this application and its calculations is excluded.