

Report

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

Warnings

- ! The calculated breech pressure is 4085 bar, which is 93% 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.

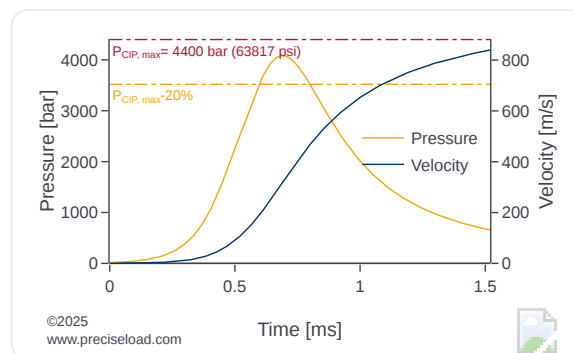
Results

Results

Max Pressure	4085bar	59242psi
Muzzle Velocity	839m/s	2754fps
Muzzle Energy	2489J	1836ft-lbf
Total time	1.519ms	1.519ms
Propellant burned	84.5%	84.5%
Burnout time	-	-
Burnout distance	-	-
Miller Stability ¹	1.5-	1.5-

¹For 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	2044mg	31.5gr
Fill density	96.0%	96.0%
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-

Trajectory²

Range (m)	Time (s)	Drop (m)	Speed (m/s)	Energy (J)
0	0.000	0.000	839.5	2489
50	0.061	-0.018	812.8	2333
100	0.124	-0.073	786.7	2186
150	0.188	-0.168	761.2	2046
200	0.255	-0.304	736.1	1914
250	0.324	-0.487	711.3	1787
300	0.396	-0.718	687.2	1668
350	0.470	-1.001	663.6	1555
400	0.546	-1.338	640.5	1449
450	0.625	-1.737	617.7	1348
500	0.708	-2.199	595.5	1252
550	0.793	-2.731	573.6	1162
600	0.882	-3.338	552.1	1077
650	0.974	-4.022	531.1	996
700	1.070	-4.795	510.4	920
750	1.170	-5.663	490.0	848
800	1.275	-6.635	469.9	780
850	1.383	-7.714	450.2	716

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

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⚠ 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.