

SAAMI New Cartridge & Chamber – 6.8 True Velocity Composite

Maximum Average Pressure (MAP)* = 70,000 psi
 Crusher pressure limits not established. (Refer to SAAMI Z299.4 for pressure guideline interpretation description.)

Instrumental Velocity: 135-gr @ 3,070 fps

CARTRIDGE & CHAMBER

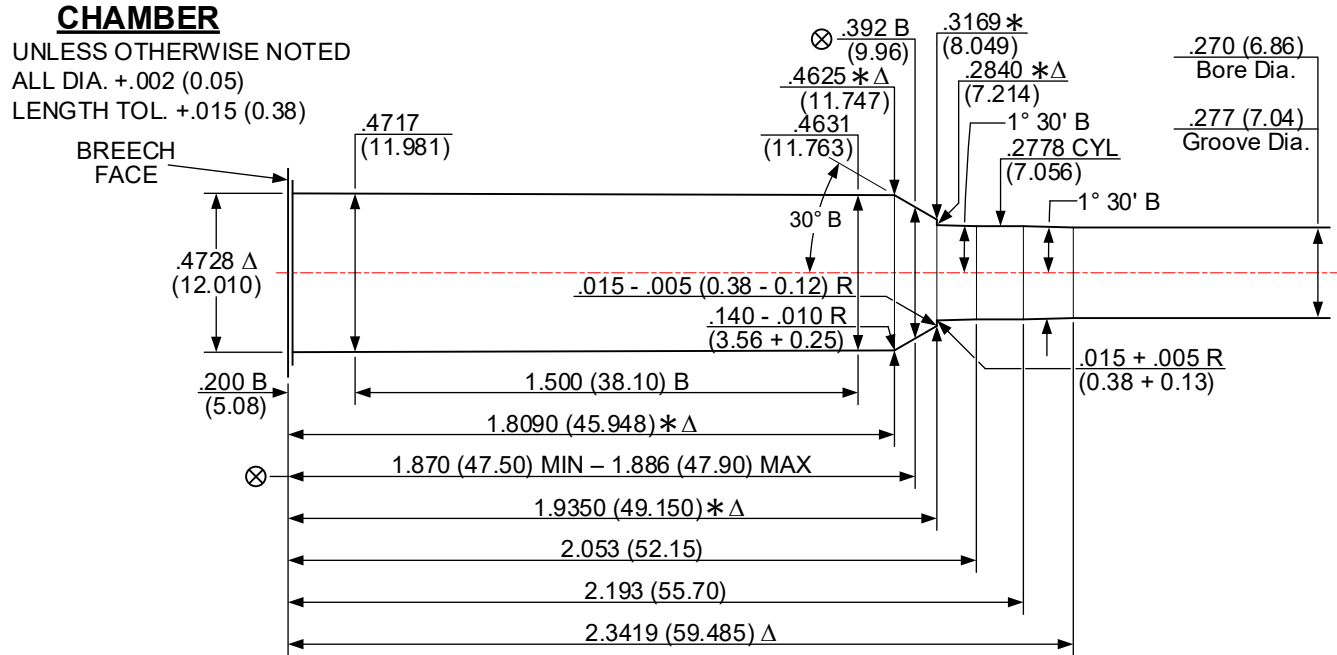
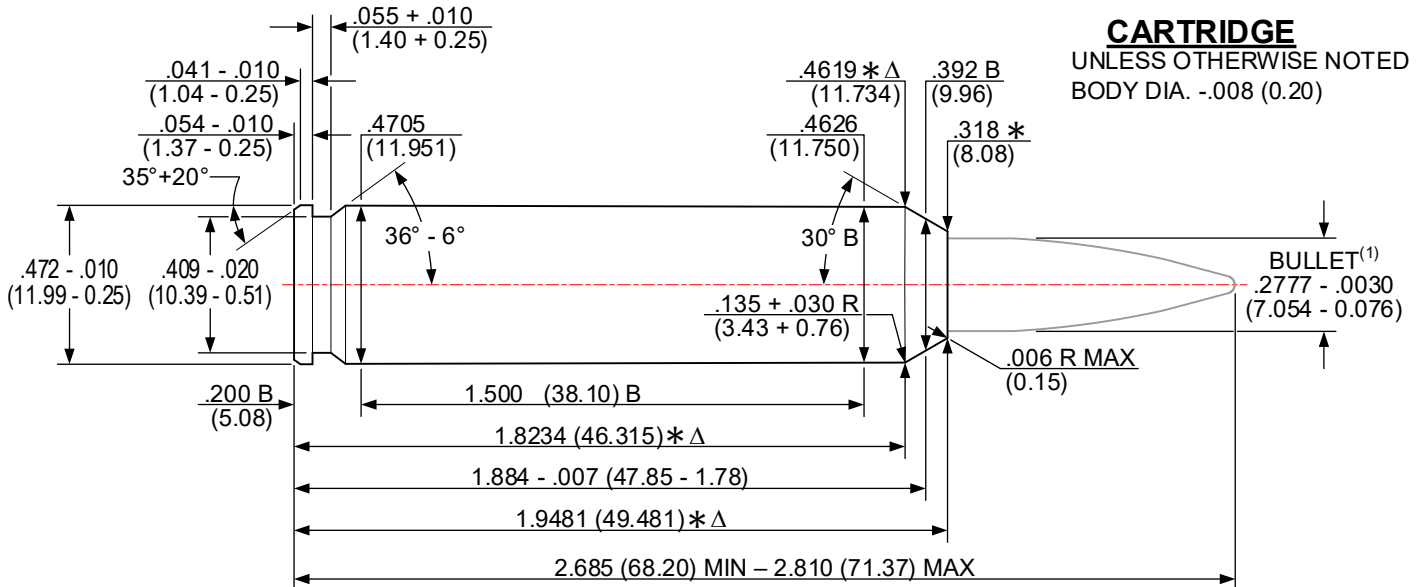
ISSUED: 01/16/2022

6.8 TRUE VELOCITY COMPOSITE [6.8 TVC]

REVISED: 06/27/2023

WARNING: Maximum Average Pressure levels greater than 65,000 psi may present increased risk of unsafe cartridge case or firearm rupture and thus require cartridge case and/or firearm designs that depart from traditional practices (materials, construction, and other design criteria).

NOTE: This design is based on a polymer case. Typical dimensional tolerances and relationships between the cartridge and chamber dimensions may deviate from conventional designs.



Δ 5 GROOVES TWIST: 8.00 (203.2) R.H. OPTIONAL
 Δ .120+.002 (3.05+0.05) WIDE MINIMUM BORE & GROOVE AREA: .0594 in² (38.322 mm²)

NOTES:

- B = BASIC (XX.XX) = MILLIMETERS ⊗ = HEADSPACE DIMENSION
- Δ = REFERENCE DIMENSION * = DIMENSIONS ARE TO INTERSECTION OF LINES
- ALL CALCULATIONS APPLY AT MAXIMUM MATERIAL CONDITION (MMC)
- (1) – BULLET PROFILE IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

DO NOT SCALE FROM DRAWING

VELOCITY & PRESSURE TEST BARREL

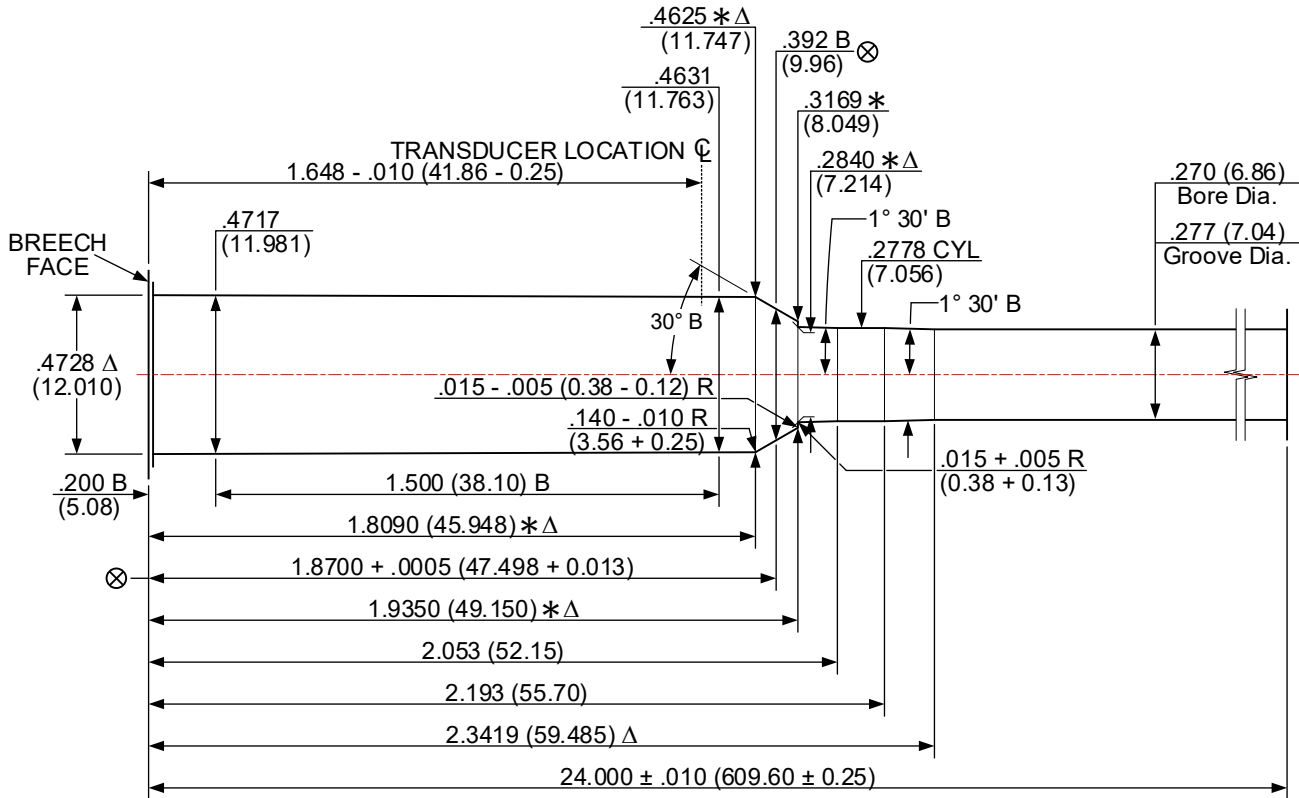
6.8 TRUE VELOCITY COMPOSITE (6.8 TVC)

ISSUED: 01/16/2022

V&P TEST BARREL

REVISED: 12/13/2023

WARNING: Maximum Average Pressure levels greater than 65,000 psi may present increased risk of unsafe cartridge case or firearm rupture and thus require cartridge case and/or firearm designs that depart from traditional practices (materials, construction, and other design criteria).
NOTE: This design is based on a polymer case. Typical dimensional tolerances and relationships between the cartridge and chamber dimensions may deviate from conventional designs.



NUMBER OF GROOVES: 5
 WIDTH OF GROOVES: .120 + .002 (3.05 + 0.05)
 TWIST RATE: 8.00 (203.2) R.H.
 DIAMETER OF PISTON HOLE: Crusher pressures not established.

TRANSDUCER DIAMETER: .250 (6.35) DIAMETER / .50 (12.7) THREAD

LAND AND GROOVE DIMENSIONS TO BE WITHIN TOLERANCES THROUGHOUT LENGTH OF BARREL.

UNLESS OTHERWISE NOTED, ALL DIAMETERS +.0005 (0.013) LENGTH TOLERANCE + .005 (0.13)

DO NOT SCALE FROM DRAWING

NOTES:

- B = BASIC
- Δ = REFERENCE DIMENSION
- ⊗ = HEADSPACE DIMENSION
- * DIMENSIONS ARE TO INTERSECTIONS OF LINES
- (XX.XX) = MILLIMETERS
- ALL CALCULATIONS APPLY AT MAXIMUM MATERIAL CONDITION (MMC)

Support products supplier:

True Velocity Ammunition, LLC
 Pat Hogan.....ph. 972-487-6500..... email: phogan@tvammo.com

Order symbols/part numbers:

Reference rounds: 68-MG-0005 Dummy rounds: 68-MG-0003 Proof ammunition: 68-MG-0004