

New Cartridge & Chamber 7mm Backcountry (7mm BC)

Maximum Average Pressure (MAP)* = 80,000 psi Crusher pressure limits not established. * Instrumental Velocity: 170-gr @ 3,000 fps

* Refer to SAAMI Z299.3 for pressure guideline interpretation description.

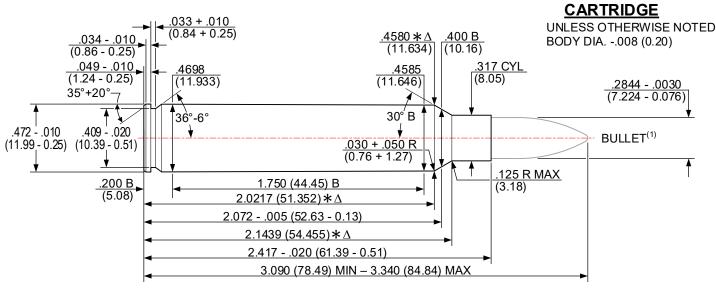
MAXIMUM CARTRIDGE / MINIMUM CHAMBER

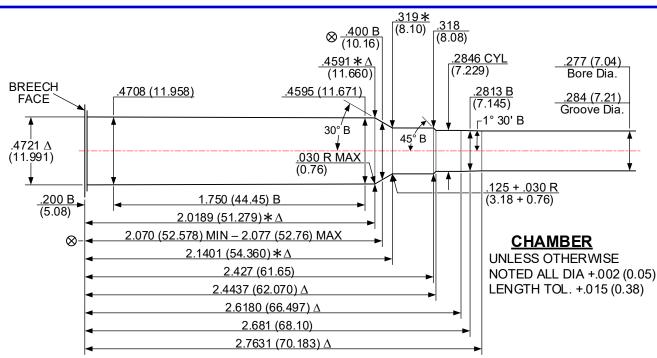
ISSUED: 01/19/2025

7MM BACKCOUNTRY [7MM BC]

REVISED: --/--/---

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).





Δ 5 GROOVES

TWIST: 8.0 (203.2) R.H. OPTIONAL

 Δ .111+.002 (2.82+0.05) WIDE

MINIMUM BORE & GROOVE AREA: .0622 in2 (40.128 mm2)

NOTES:
B = BASIC

(XX.XX) = MILLIMETERS

⊗= HEADSPACE DIMENSION

 Δ = REFERENCE DIMENSION

* = DIMENSIONS ARE TO INTERSECTION OF LINES

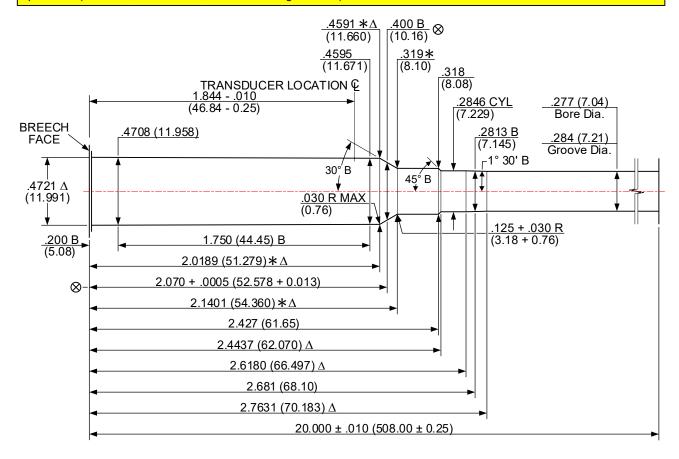
ALL CALCULATIONS APPLY AT MAXIMUM MATERIAL CONDITION (MMC) (1) – BULLET PROFILE IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

DO NOT SCALE FROM DRAWING

VELOCITY & PRESSURE TEST BARREL

7MM BACKCOUNTRY [7MM BC]

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NUMBER OF GROOVES: 5

WIDTH OF GROOVES: .111 + .002 (2.82 + 0.05)

TWIST RATE: 8.00 (203.2) R.H.

DIAMETER OF PISTON HOLE: Crusher Pressures Not Established

TRANSDUCER DIAMETER: .250 (6.35)

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)

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(XX.XX) = MILLIMETERS

ALL CALCULATIONS APPLY AT MAXIMUM MATERIAL CONDITION (MMC)

Support products supplier:

Federal Cartridge (The Kinetic Group)

Jake Cahill......ph. 208-553-6124.....email: jake.cahill@tkghunt.com

Mallori Nelsonph. 208-750-3142.....email: mallori.nelson@tkghunt.com

Order symbols/part numbers:

Reference rounds: P7BCSAAMI Dummy rounds: P7BCDUMMY Proof ammunition: P7BCPROOF