

Propane Regulators Service Bulletin

Red Deer is 855 meters or 2800 feet above sea level, every 300 meters of elevation change has an effect of approx.. 4%.

We are going to order another gauge to verify our gauge, but again, the propane regulator is adjusted to the factory elevation of 855 meters or 2800 feet.

See chart below:

Universal Standards at Sea Level

Natural gas: 1 CFH = 1000 Btu/hr

Propane: 1 CFH = 2550 Btu/hr

Butane: 1 CFH = 3200 Btu/hr

SCFH – standard cubic feet per hour (at 14.4 psia — sea-level atmospheric pressure at 60F)

Altitude Effect in Gas Regulator

Atmospheric pressure reduces with altitude, so we need to ascertain the regulator location; to determine elevation.

As we increase elevation by 300 meters (approximately 1000 feet), there is an approximate 4% reduction in atmospheric pressure. Assuming that the Colorado Front Range elevation is about 1608 meters (5300 feet), it would mean that there is an approximate 21% reduction in pressure from a sea-level location.

One CFH of natural gas at sea level is approximately 1000 BTU/hour. However, along the Colorado Front Range, a cubic foot of natural gas is about 830 BTU.

Altitude affects all types of regulators.

Overland Explorer Vehicles