

CALCULATION EXAMPLE ACFM < > SCFM

Using the standard gas laws the Gx reading of 6.2 Actual cfm @ 90 psi would be equivalent to 43.5 Normalized cfm

Normalized flow = Actual Flow x ((Working Press + Atmospheric Press) / Atmospheric Press)

$$N = A \times (P_w + P_a) / P_a$$

$$N = 6.2 \text{ acfm} \times ((6.1 \text{ bar} + 1.013 \text{ bar}) / 1.013 \text{ bar}) \qquad 90\text{psi} = 6.1 \text{ bar}$$

$$N = 43.5 \text{ scfm}$$

Actual flow = Normalized flow x Atmospheric Press / (Working Press + Atmospheric Press)

$$A = N \times P_a / (P_w + P_a)$$

$$A = 43.5 \text{ scfm} \times 1.013 / (6.1 + 1.013) \qquad 90\text{psi} = 6.1 \text{ bar}$$

$$A = 6.2 \text{ acfm}$$