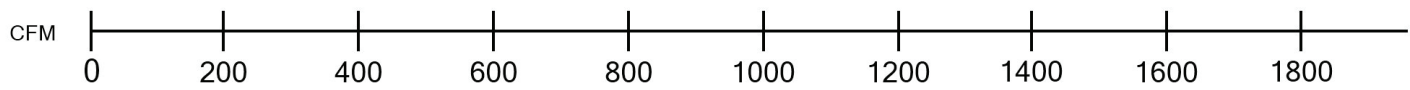
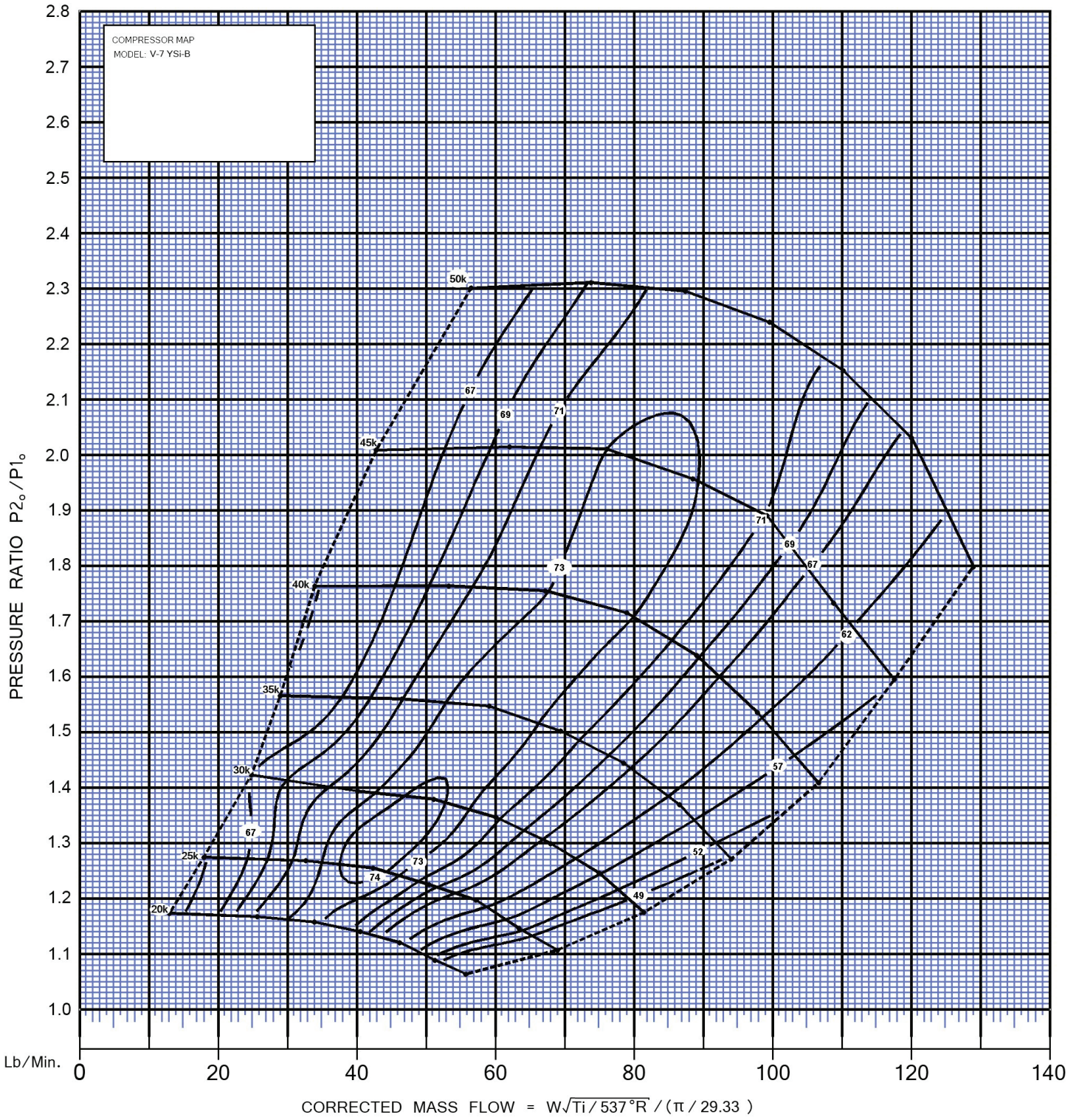
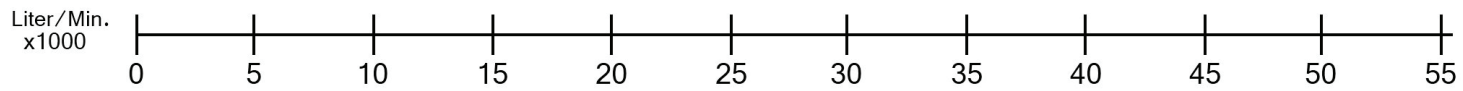


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 COMPRESSOR PERFORMANCE MAP
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$$\text{CORRECTED VOL. FLOW (CFM)} = \frac{\text{OBSERVED AIR FLOW}}{\text{BP}} \times \frac{(29.23 \text{ IN HgA})}{\text{BP}} \times \frac{(T1c)}{537^\circ R}$$



$$\text{CORRECTED VOL. FLOW (Liter/Min. x 1000)} = \frac{\text{OBSERVED AIR FLOW}}{\text{BP}} \times \frac{(99\text{kPa})}{\text{BP}} \times \frac{(T1)}{298.15}$$

η = COMPRESSOR ISENTROPIC EFF., TOTAL-TOTAL
 P_{1o} = COMPRESSOR INLET AIR ABSOLUTE TOTAL PRESSURE (kPa)
 P_{2o} = COMPRESSOR DISCHARGE AIR ABSOLUTE TOTAL PRESSURE (kPa)
 T_1 = COMPRESSOR INLET AIR ABSOLUTE TEMPERATURE (K)
 T_2 = COMPRESSOR DISCHARGE AIR ABSOLUTE TEMPERATURE (K)
 $\gamma = [(P_2/P_1)^{0.286} - 1]$
 $\eta = [(T_1/T_2)^\gamma / (T_2/T_1)] \times 100\%$

NOTES:
 PERFORMANCE OBTAINED AND CORRECTED IN ACCORDANCE WITH SAE J1723