CYLINDER PROPORTIONS FOR COMPOUND ENGINES.

steam consumed in the jackets of each cylinder, if jackets are used. Whatever may be true in regard to the best range of temperature for each cylinder, the logic of what is to follow will apply with equal force, and therefore, for the purpose of illustration, it will be assumed that the temperature is to be equally divided. This will require that the high cylinder works between 160 lbs. absolute and 57 lbs., the intermediate between 57 and 16 lbs., and the low cylinder between 16 lbs. and 3 lbs. absolute pressure.



Figs. 1, 2, and 3 represent theoretic diagrams between each of the three divisions of pressure mentioned. In each case "VV" represents the vacuum line, and "XX" the atmospheric line, and in each case "AF" represents the piston travel. The clearance is assumed to be 4% of the piston displacement, as indicated. For convenience in constructing the

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