RECALCULATING INSTALLATION OF COMPRESSED AIR FOR PRODUCTION PROCESS AT PT. COCA-COLA BOTTLING INDONESIA GEMPOL PLANT

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Abstract

PT. COCA-COLA BOTTLING INDONESIA GEMPOL PLANT is the multinational softdrink industry, which is the main product that is softdrink. Along with human population growth, the demand also increased. So that the necessary increase in the quality and quantity of production, within the terms of the economic trends which are now going electricity crisis.

Air Needs in the production process in PT. COCA-COLA BOTTLING INDONESIA GEMPOL PLANT fulfilled by the type of screw compressor. Given the importance of improving the quality of air compressed system this author intends to do recalculating the system of compressed air to make the air compressor selection on the PT. COCA-COLA BOTTLING INDONESIA GEMPOL PLANT

From result of calculation got the air flow Rate of 0.291458 kg/s, the required air capacity of 14,086 m3/min, 2,0016 bar of pressure Losses, pressure at least equal to the receiver tank pressure of 10,5 bar and 11,3 bar of maximum pressure at receiver tank and selecting the type of compressor Lobe Compressor screw type.

Key word : velocity, pressure