

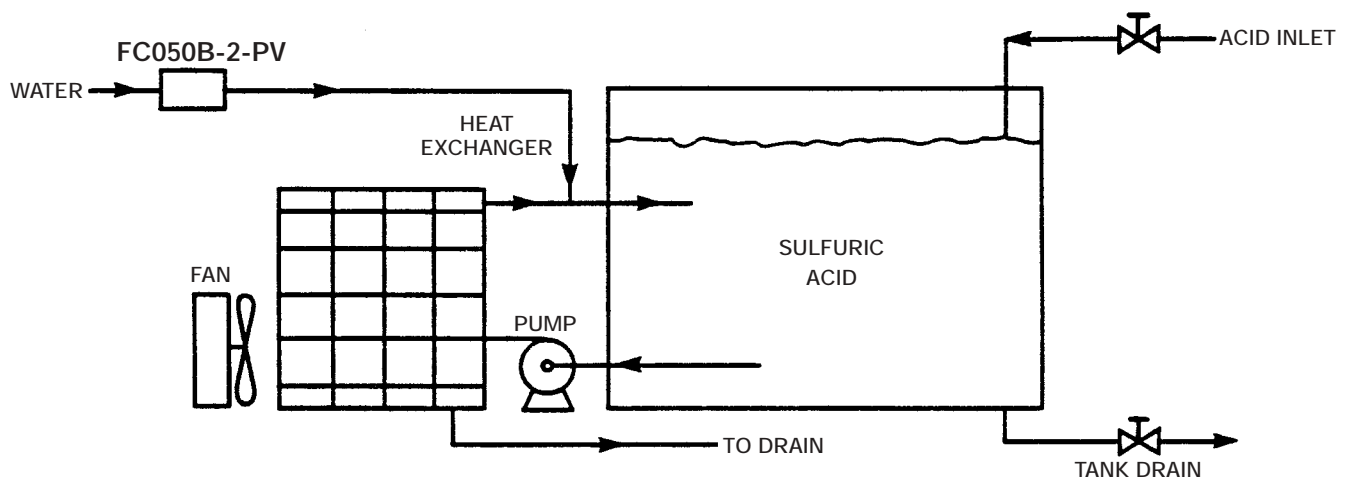
MARKET Plating Industry

PRODUCT(S) Series FC050B-2-PV Flow Control Valve

REQUIREMENT To provide cooling of hot acid thru heat exchanger.

PROCESS FLUID(S) Sulfuric Acid and Water

INLET PRESSURE/TEMPERATURE 20 PSI/160°F Acid - 40 PSI/Ambient Water



When concentrated sulfuric acid is mixed with water a thermo-chemical reaction occurs, causing the solution to rise in temperature. The solution then needs to be cooled down. A flow control valve model FC050B-002-PV is used to maintain a

constant water flow into the acid tank in an effort to control heat gain in the tank. The water and acid solution is then circulated through a heat exchanger for additional cooling with a fan blowing air across the exchanger.