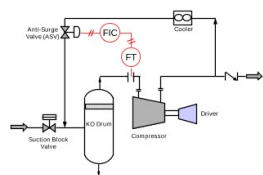
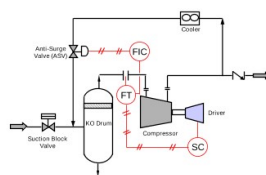


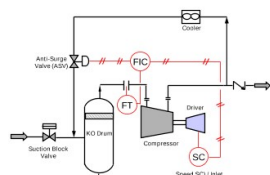
VARIOUS METHODS OF CENTRIFUGAL COMPRESSOR SURGE CONTROL



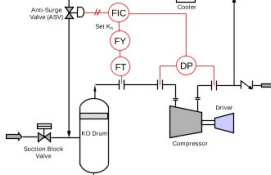
Surge Control with Simple Minimum Flow Cold Bypass between Discharge & Suction Side



Surge Control with Suction Flow Altering /Resetting Compressor Speed to Meet Discharge Pressure Requirements



Surge Control with Speed/ Inlet Guide Vane (IGV) Alters/Resets the Cold Flow Bypass



Differential pressure (DP) across the Compressor Suction & Discharge is used to correlate DP vs. Flow to Alter/Reset the Minimum Flow Cold Bypass

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