

# Chemical Equipment Analysis Report

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Dataset:	data.csv
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## Summary Statistics

Metric	Value
Total Equipment	15
Average Flowrate	119.80
Average Pressure	6.11
Average Temperature	117.47

## Equipment Type Distribution

Equipment Type	Count	Percentage
Pump	4	26.7%
Valve	3	20.0%
Reactor	2	13.3%
HeatExchanger	2	13.3%
Condenser	2	13.3%
Compressor	2	13.3%

## Equipment Details

Name	Type	Flow	Press	Temp
Pump-1	Pump	120.0	5.2	110.0
Compressor-1	Compressor	95.0	8.4	95.0
Valve-1	Valve	60.0	4.1	105.0
HeatExchanger-1	HeatExchanger	150.0	6.2	130.0
Pump-2	Pump	132.0	5.6	118.0
Valve-2	Valve	58.0	4.0	102.0
Reactor-1	Reactor	140.0	7.5	140.0
Pump-3	Pump	125.0	5.3	115.0
Condenser-1	Condenser	160.0	6.8	125.0
Compressor-2	Compressor	100.0	8.0	98.0
HeatExchanger-2	HeatExchanger	155.0	6.3	132.0
Valve-3	Valve	62.0	4.2	107.0
Pump-4	Pump	130.0	5.9	119.0
Reactor-2	Reactor	145.0	7.2	138.0
Condenser-2	Condenser	165.0	6.9	128.0