

# SPC Report (Demo) — Mixing Tank MT-01

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Parameter: Product\_Temperature\_End (°C)

Spec limits: LSL=98.000, USL=102.000

## Key Statistics

- N = 120
- Mean = 100.328
- Estimated  $\sigma$  (from MR) = 0.891
- Min / Max = 98.305 / 102.847

## Capability (estimated)

- Cp = 0.75
- Cpk = 0.63

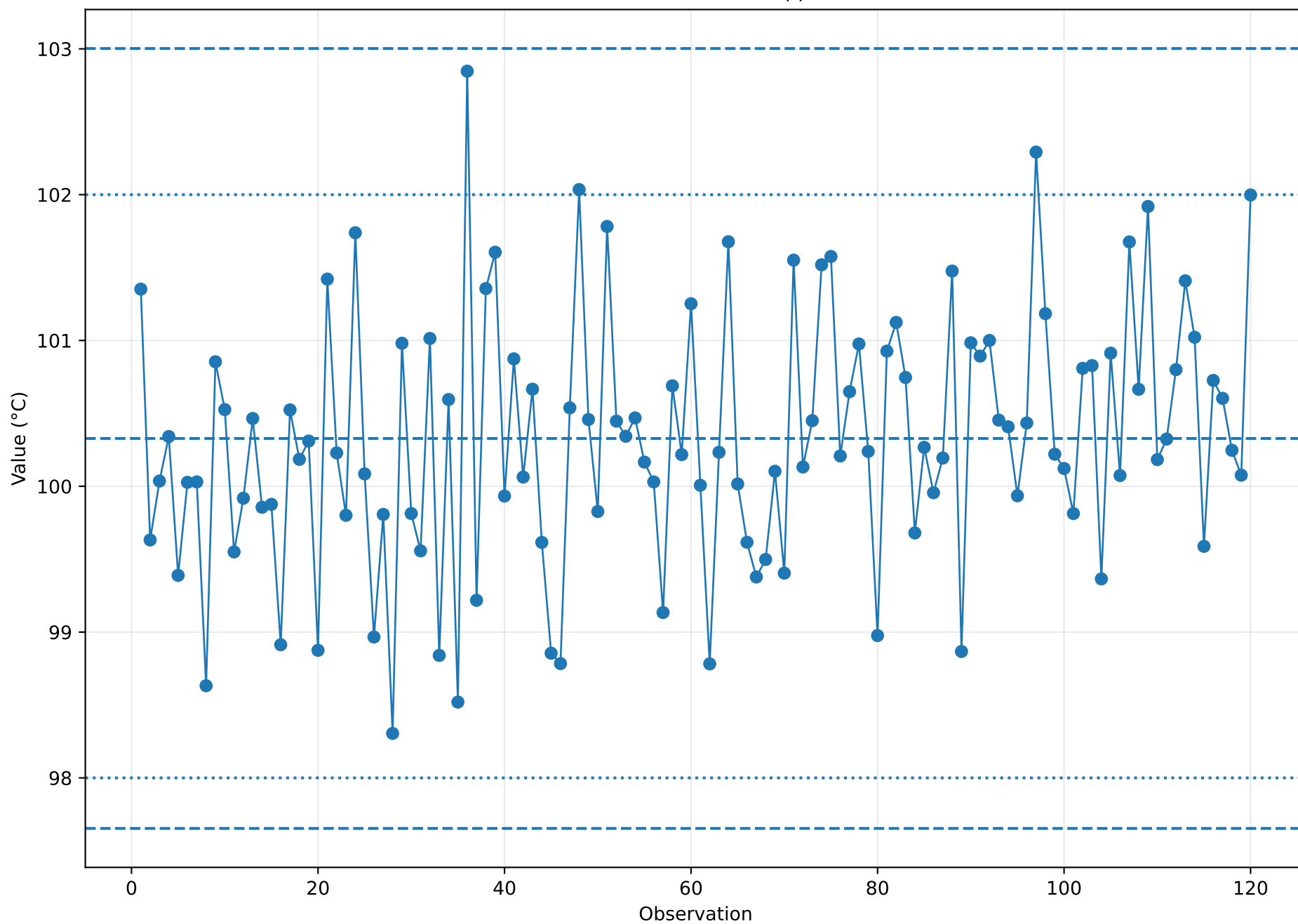
## SPC Signals (Rules applied)

- Beyond  $\pm 3\sigma$  points: 0
- Run of 8 on one side: 0
- Total flagged points: 0

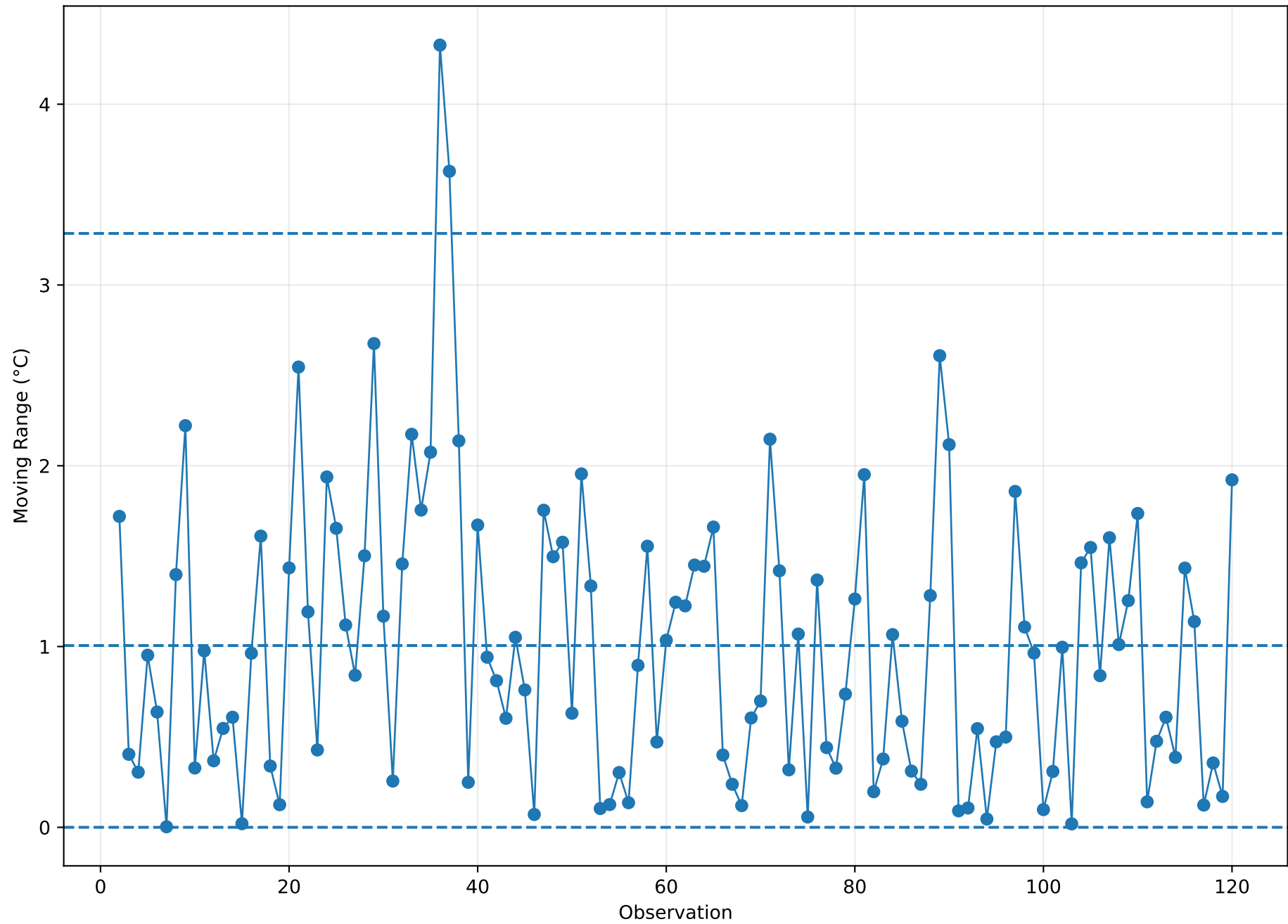
## Notes

- This is a demo dataset + demo report structure for a CV portfolio.
- Replace 'sample\_process\_data.csv' with real (sanitized) data if available.

Individuals Chart (I)

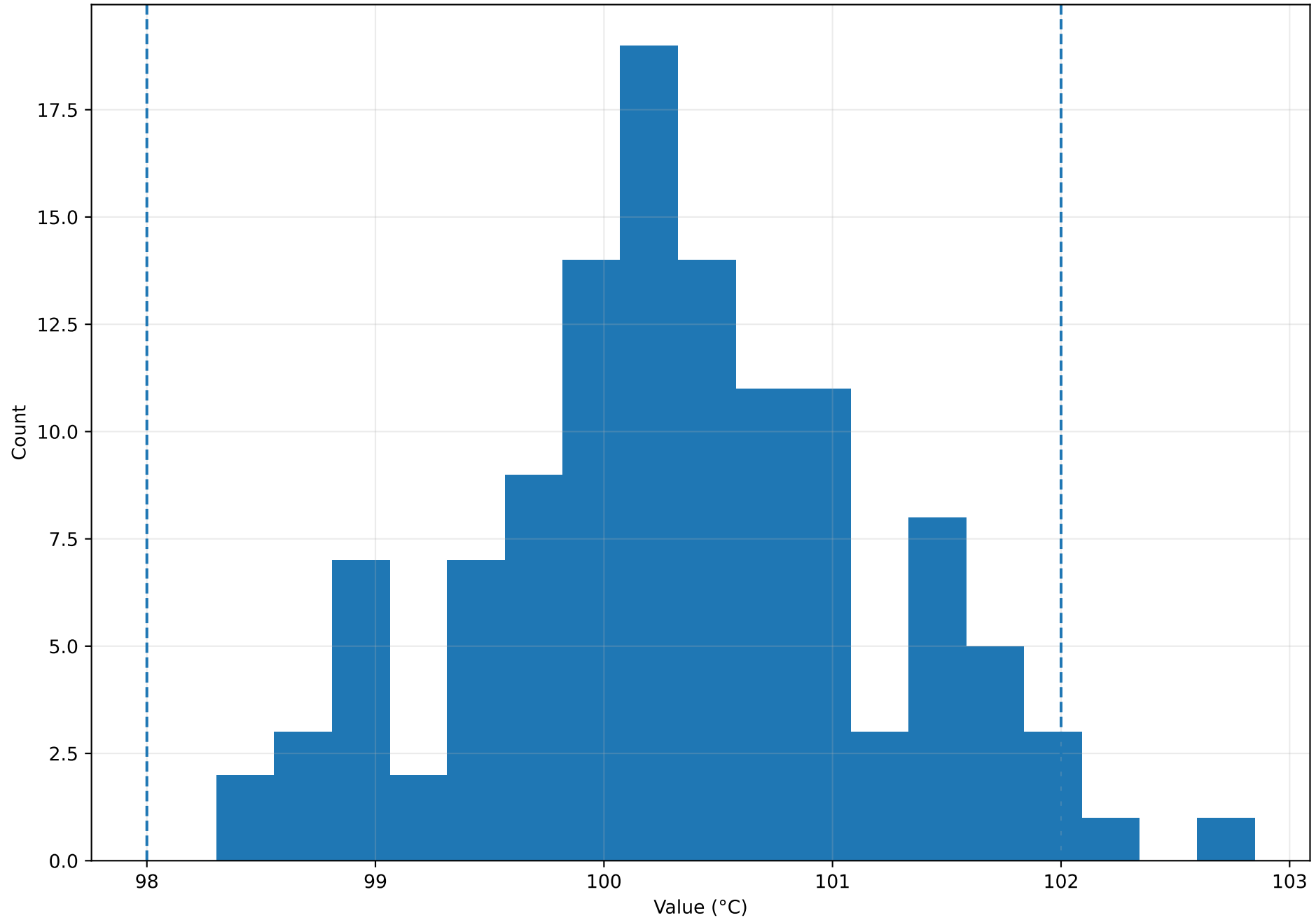


Moving Range Chart (MR)



A histogram showing the distribution of 'Value (°C)'. The x-axis ranges from 98 to 103, and the y-axis ranges from 0 to 10. The histogram bars are blue. A red normal distribution curve is overlaid on the histogram. Two vertical dashed red lines are drawn at approximately 98.0 and 101.8.

Value (°C)	Frequency
98.5 - 99.0	2
99.0 - 99.5	3
99.5 - 100.0	5
100.0 - 100.5	2
100.5 - 101.0	5
101.0 - 101.5	8
101.5 - 102.0	10
102.0 - 102.5	8
102.5 - 103.0	5
103.0 - 103.5	2



## Flagged Points (Investigation List)

No points flagged by the selected rules.