infinity
pipe systems

Pressure Drop Troubleshooting Checklist

Use this checklist to methodically identify the cause of pressure drop before making changes to compressor settings or adding capacity.

Measure First

- □ Confirm compressor discharge pressure under normal load
- □ Record receiver pressure during operation
- □ Measure pressure at the point of use
- □ Repeat measurements during peak demand

Compare Demand to Capacity

- □ Confirm actual airflow demand matches system design assumptions
- □ Identify pressure changes when multiple drops operate simultaneously
- □ Review whether system growth has occurred since installation

Inspect Layout and Distribution

- □ Check for long, single-direction pipe runs without looping
- □ Identify excessive elbows, tees, or tight directional changes
- □ Remove or isolate dead ends where possible
- □ Confirm drops are taken correctly from the main line

Identify Local Restrictions

- □ Measure pressure before and after regulators, filters, and valves
- □ Review quick couplings and hoses for restrictive internal bores
- □ Check filters for contamination or blockage

Check for Leaks Under Load

- □ Conduct staged isolation during normal production
- □ Observe compressor cycling and pressure stability after isolations
- □ Investigate suspect zones while equipment is operating

Review Pipe Condition

- □ Inspect filters, drains, and traps for corrosion or debris
- □ Compare pressure across older pipe sections
- □ Review maintenance trends for increasing restrictions over time

Avoid Short-Term Fixes

- □ Do not increase compressor pressure until distribution issues are confirmed
- □ Prioritise correcting pipe sizing, layout, and restrictions
- □ Document findings to support long-term system improvements

Need help diagnosing pressure drop in your compressed air system?

Pressure instability, underperforming tools, and rising energy costs are often symptoms of underlying distribution issues, not compressor capacity.

Our team can assess your compressed air network, pinpoint the source of pressure drop, and recommend practical improvements across pipe sizing, layout, and system condition to restore reliable performance.

Call: **1300 272 982**
Email: info@infinitypipesystems.com.au
Or contact us online: **infinitypipesystems.com.au/contact-us**

Solve the cause, not the symptom, and keep your system performing as intended.