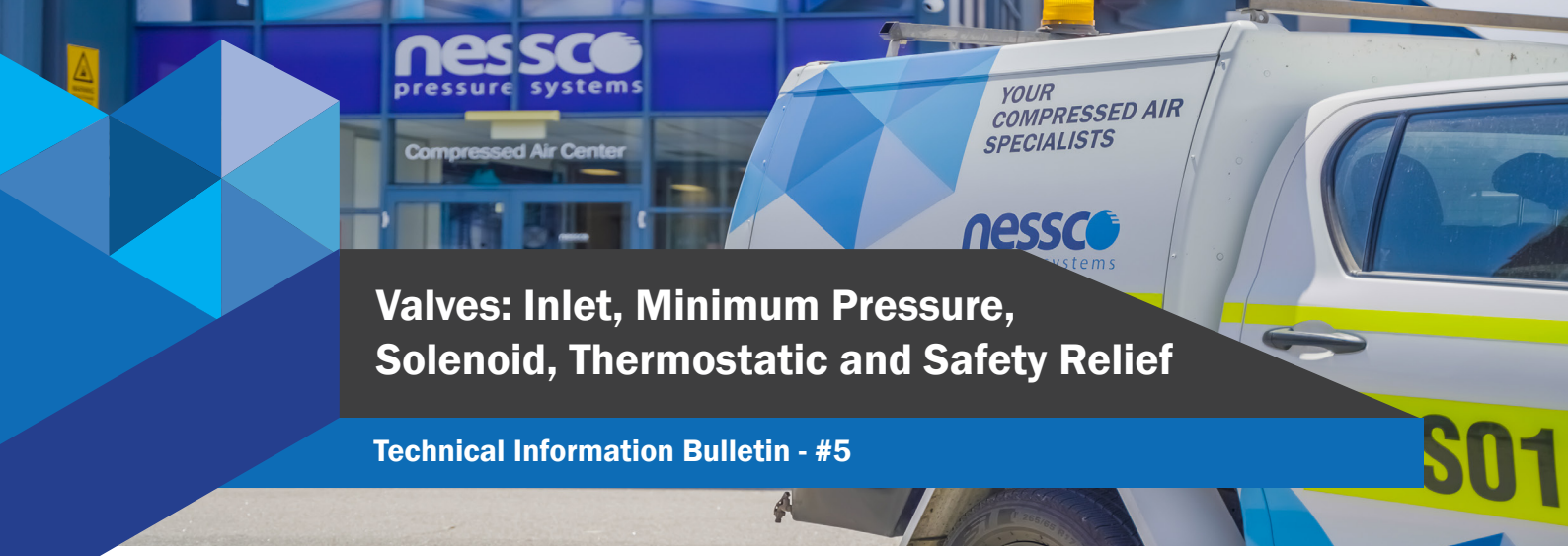

Valves: Inlet, Minimum Pressure, Solenoid, Thermostatic and Safety Relief

Technical Information Bulletin - #5

This technical bulletin is designed to provide more information about the best practice compressed air system recommendations made during your recent service.

Best practice valve replacement schedule

The lifespan of a valve depends on its operation and maintenance, however the average lifespan of your compressor's intake valve kit, thermostatic valve kit and minimum pressure valve is 8,000 hours. The solenoid valve's average lifespan is similar. Valves should be replaced or refurbished, depending on the recommendations of your service technician.

Benefits of replacing your valves on schedule

Having your system serviced regularly allows your service technician to inspect all valves and replace them when necessary, before you experience problems such as high operating temperatures, low pressure, or increased power consumption.

Risks of not replacing your valves on schedule

Valves and seals wear down over time, causing your compressor to operate less efficiently than it should. Not servicing or replacing your valves as scheduled risks compressor breakdowns and system downtime in the future.

Why have new valves been recommended?

New valves have been recommended for your compressor because your valves either:

- exceed the best practice operating hours recommended by your compressor manufacture, or
- shows specific signs of failure or compromised operations/ efficiencies.

Valves: Inlet, Minimum Pressure, Solenoid and Thermostatic

Technical Information Bulletin - #5

How can you prolong the life of your compressor's valves?

There are a number of ways to prolong the life of your compressor's valves, including:

- Regular servicing, cleaning, and inspection
- Monitoring and addressing high operating temperatures, low pressure, or increased power consumption
- Replacing worn parts
- Following your manufacturer's maintenance schedule.

Your NPS service technician has the experience and technical knowledge to help maximise the life of your compressed air system.

More information

Our service team is always happy to provide more information or talk through our best practice recommendations for your compressor.

Call us on 1300 290 638 or email info@nesscopressure.com.au for more information.

About your compressor's valves

The valves in your compressor control the flow of air through your system in different ways:

- Inlet valves controls the air intake into your compressor. The performance of the inlet valve impacts the capacity and power consumption of your compressor.
- Minimum pressure valves keep air pressure inside the sump during the initial start up of the compressor. This helps the oil circulate through the compressor when it starts. It's also a one-way valve, making sure no compressed air can flow back into the airend.
- Solenoid valves take in filtered air, send it to the refrigerator, and keep it pressurised inside the air receiver tank.
- Thermostat valves help your compressor run efficiently by maintaining a consistent temperature of the compressed air.