

Proof Pressure for Pneumatic Components

The "proof pressure" is not a maximum operating pressure or the pressure at which a pneumatic component will fail. Proof pressure is the pressure over the maximum rated pressure that the component can experience for 1 minute and still function normally after being returned to its normal operating pressure range.

This is defined under Japanese Industrial Standards as a "Pressure Resistance Test". Operating any pneumatic product at the "proof pressure" repeatedly or for extended periods of time will lead to premature failure.

For the majority of pneumatic components designed under these standards, the proof pressure is defined as 1.5 times the maximum working pressure rating with all other operating conditions within standard specifications.

Copies of Japanese Industrial Standards are available for purchase through the Japanese Standards Association at http://www.jsa.or.jp/default_english.asp.