

Case study

77000 Series Multi-Phase High Pressure Reduction, Field Proven Technology

Lower Maintenance

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Unplanned outages from premature trim wear⁽¹⁾

Longer Service Life

3x

Per valve average⁽¹⁾

Proven Performance

50

Over 50 years of proven history

Avoid making the mistake of installing the wrong valve that only solves half of the challenges of your severe service applications. Consider all the challenges up front and let us help to design the complete solution.

THE CHALLENGE

Conventional valves are often customized with small orifice, multi-stage trim as low-cost alternatives for high pressure letdown applications. However, **extreme conditions that also include multi-phase, compressible fluid and entrained debris can quickly clog the small passages of these valves or result in choked flow as the gaseous flow rapidly expands. This leads to erosion of trim, unpredictable performance and unplanned downtime.**

THE SOLUTION

First released in 1963, the **Masoneilan 77000 Series** product has been widely recognized as a proven and effective solution. Where conventional trim is rapidly worn from high-pressure multi-phase flow and entrained debris, the **77000 also offers multi-stage, large expanding area flow paths to minimize fluid velocity and eliminate loss of capacity** from either choked flow induced by rapid fluid expansion or from debris.



77000 Series



Multi-stage, expanding area trim for high pressure reduction without clogging

⁽¹⁾ Savings and reduction vary by application.

Contact your local Masoneilan representative to learn more about the full story of benefits of the 77000 Series product line.

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