

Case study

Minimize the Negative Effects of Back Pressure with Enhanced POSRV Trim

Improved Rated Capacity

↑ Up to 30%

With Comparable PRVs⁽¹⁾

Reduced Cost of Ownership

↓ Up to 40%

With Valve Size Reduction and No Bellows⁽¹⁾





Installation Savings

↑ \$15K-\$30K

With Valve Size Reduction⁽¹⁾

⁽¹⁾ Savings vary by application.

Back pressure continues to be an **SRV application challenge** as closed header systems are increasingly utilized at industrial plants. The **Consolidated™** 2900 and 3900 Series are the **ideal solution** for any high-pressure and variable back pressure application. The enhanced BT trim design offers end-users an **optimized valve trim** for challenging back pressure applications with high required flow rates.

Application Challenges	BT Trim End-Use Benefits	
Inefficient Flow/Excess Capacity	Flow up to 30% more capacity under the same back pressure conditions, resulting in more efficient flow with a rated capacity closer to the required capacity	 Increase Efficiency
Valve Inlet Size > Pipe Size Specified	Optimized rated capacities result in potentially smaller and more efficient valves	 Optimize Service
Chatter Caused by Oversized Valves	Flow closer to the required capacity of the system limiting chatter effects and reducing repair costs and downtime	 Improve Reliability
Frequent Routine Maintenance	Improved capacity resulting in reduced valve sizes = lower upfront and component costs	 Reduce Emissions
Bellows Failure	The 2900 and 3900 do not require bellows for back pressure applications eliminating costly bellows replacements No bellows mean a more robust and reliable design for every relief cycle	
Restricted Flow at High Back Pressures >40%	Reliably flow at higher back pressures up to 80% and beyond	
External Leakage	No bellows leakage/emissions external to the valve eliminating the need for costly monitoring devices or upgrades	

The Right Valve for the Right Application

Contact your local Green Tag™ Center today.

valves.bakerhughes.com



No Bellows + Reduced Sizes = Cost Savings!