



Jamesbury™ valve maintenance recommendations for PSA units

Components	Elements	Recommended maintenance 3 years / 750,000 cycles	Recommended maintenance 6 years / 1,500,000 cycles
Valve	Disc	Check *	Check *
	Shaft	Check *	Check *
	High cycle spare parts set (includes bearings, seat and seals)	Replace	Replace
	Torsion spring	Replace	Replace
	No play coupling bolts and nuts	Replace	Replace
Actuator	Lever arm	Check *	Replace
	High cycle spare parts set	Replace	Replace
	Spring assembly	Check *	Replace after 4,500 kcycles
	Cylinder	Check *	Check *
Valve controller, Neles™ ND9000™	Complete device	Download and analyse diagnostics Calibration and reset counters	Download and analyse diagnostics Calibration and reset counters Replace after 4,500 kcycles
	Spool valve	Replace	Replace
	Prestage	No action	Check *
	Position feedbacksystem (linear valves)	Replace	Replace
Valve controller, NDX™	Complete device	Download and analyse diagnostics Calibration and reset counters	Download and analyse diagnostics Calibration and reset counters
	Prestage bottom filter	Replace	Replace
	Silencers	Replace	Replace
	Pneumatic set	No actions	Replace
Limit switch	Complete device	Check *	Check *
Solenoid valve	Complete device	Check *	Replace
Booster / quick exhaust valve	Complete device	Check *	Replace
Air filter	Complete device	Replace	Replace

During maintenance Valmet technicians check parts that are not mentioned here and replace damaged parts if possible. Valmet technicians also make recommendations for future inspection and maintenance. Device condition monitoring helps determine whether a particular valve needs attention.

* Replace if needed

Wearing out of devices:



Bearings and sealing elements



Lever arm, bearings and sealing elements



Valve controller components



Instrumentation components

Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety