



Neles™ X-series ball valve maintenance recommendation for CCR lock hopper block and vent valves

Regular on-line inspection	
Component	Action
Valve	Check for: External leakages, abnormal operation / noises, loose actuator mounting parts
Actuator	Check for: Air leakages, abnormal noises, instrumentation mounting parts
Controller	Download and analyse diagnostics, calibrate
Limit switch	Check for: Visual condition, internal humidity, cable gland

Maintenance			
Component	Element	Minor maintenance every 2 years	Major maintenance every 4 years
Valve	Seats	Lapping of seat against the ball *	Replace
	Ball	Lapping of seat against the ball *	Check *
	Shaft	Check *	Check *
	Bearings	Replace	Replace
	Spare part set	Replace	Replace
Actuator	Lever arm	Check *	Replace
	High cycle spare part set	Replace	Replace
	Cylinder	Check *	Check *
	Spring assembly	Check *	Check *
Controller	Neles NDX	Download and analyse diagnostics, calibrate	Download and analyse diagnostics Calibrate, reset counters + pneumatic set + silencers
	Neles ND9000	Download and analyse diagnostics, calibrate	Download and analyse diagnostics Calibrate, reset counters + Spool valve assembly + Check* Prestage unit
Limit switch	Complete device	Check *	Check *
Solenoid pilot valve	Complete device	Check *	Check *
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 worn out

We recommend to keep at least one complete valve assembly per size in stock or with associated spare parts for emergency repair
Use of device condition monitoring helps to determine whether a particular valve needs early maintenance

Valve components:



Neles X-series ball valve



Neles B1C-series actuator

Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety