



Maintenance recommendations for Neles™ RE oxygen and hydrogen valves in water electrolyzer process

Components	Elements	Recommended maintenance 5 years	Recommended maintenance 10 years
Valve RE	Seat set (seat, lip seal and lock ring)	Check*	Check*
	Spare part set (packing rings, gasket)	Replace	Replace
	Shafts (drive shaft and shaft)	Check*	Check*
	Bearings	Check*	Check*
Actuator QPX	Spare part kit A (diaphragm, guide buttons)	Replace	-
	Spare part kit B (diaphragm, guide button and bearings)	Check*	Replace
Valve controller, Neles NDX	Complete device	Download and analyze diagnostics, calibration	Download and analyze diagnostics, calibration
	Prestage bottom filter (Compact)	Check*	Check*
	Exhaust adapters	Check*	Check*
	Pneumatic set	Check*	Check*
	Magnet and bracket	Check mounting	Check mounting

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

It is imperative that valves are handled and that maintenance and testing are performed by competent personnel trained in oxygen risks, in premises suitable designed for oxygen-service cleaning.

* Replace if needed (e.g. based on diagnostics or visual checking)

Wearing out of devices:



Trim parts and sealing elements



Diaphragm and sealing elements



Valve controller components

Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety