

Globe valves maintenance recommendation

General approach for plantwide maintenance cycles

	Maintenance scope		
	Performance check	Inspection	Major maintenance
Maintenance intervals*	1 - 6 months after start up, once process is stabilized	Every 2 - 5 years or 250 000 cycles	Every 5 - 10 years or 750 000 cycles
Maintenance scope with required spare parts	Check valve opening and any abnormalities such as noise, vibration or cavitation. - make new sizing if necessary - change trim parts if needed (capacity change, low noise & cavitation trims etc.)	Workshop inspection + spare part set	Workshop inspection + spare part set + trim parts
Varying intervals according to valve condition	If there are frequent start-up's and shut downs, check also valve in those conditions, not only stable process conditions. - make new sizing if necessary - change trim parts if needed (capacity change, low noise & cavitation trims etc.)	New inspection within 5 years if valve is in good condition, otherwise according to the intervals.	When major maintenance is performed only workshop inspection is needed in next 5 years. If valve is an obsolete model replacement can be considered instead major maintenance.

* The rules are defined for general valve service. It is considered generally accepted good operating practice to operate valves at least once per year to verify they function. For high cycle, fast stroke, corrosive, erosive duty and special applications ask Valmet sales for consultancy.

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.

Globe valve maintenance recommendations:



Trim parts and sealing elements

Operational benefits:



Improved plant availability



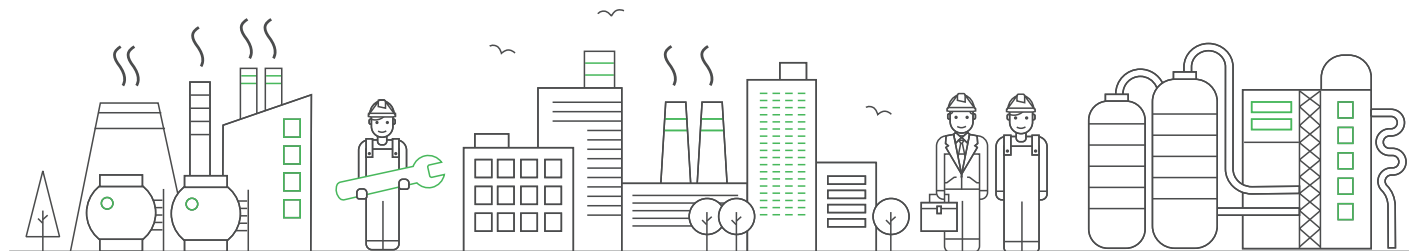
Optimized performance



Ensured quality



Improved safety



Linear actuators maintenance recommendation General approach for plant wide maintenance cycles

Neles VD-series pneumatic cylinder actuator maintenance recommendation	Maintenance scope	
	Inspection	Maintenance
Maintenance intervals*	Every 5 years	Every 10 years
Maintenance scope with required spare parts	Workshop inspection + spare part set	Workshop inspection + spring set + spare part set

Neles VC-series pneumatic cylinder actuator maintenance recommendation	Maintenance scope	
	Inspection	Maintenance
Maintenance intervals*	Every 5 years or 500 000 cycles	Every 10 years or 1000 000 cycles
Maintenance scope with required spare parts	Workshop inspection + spare part set	Workshop inspection + spare part set + cylinder

* The rules are defined for general service. It is considered generally accepted good operating practice to operate actuators at least once per year to verify they function. For high cycle, fast stroke, corrosive, erosive duty and special applications ask Valmet sales for consultancy.

Instrumentation components	Maintenance intervals	
	5 years	10 years
Neles™ valve controllers	Refer to the maintenance recommendation of the corresponding product	
Limit switch	Check**	Check**
Solenoid valve, Air operated valve	Check**	Replace
Volume booster, Quick exhaust	Check**	Replace
Air filter	Replace	Replace
Other instrumentation component	Check**	Replace

** Replace component or parts if damaged

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Wearing out of devices:



Diaphragm and sealing elements



Sealing elements and cylinder

Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety