

Minimize plant risks

Following the valve manufacturer's maintenance recommendations ensures plant availability.

## Mapag valve maintenance recommendations for PSA units

# BAC / BAR / BAX-serie. CL300 / PN40

Components	Elements	Recommended maintenance 750,000 cycles or 3 years	Recommended maintenance 1,500,000 cycles or 6 years
<b>Valve</b>	Shaft sealing	Replace	Replace
	Seat	Replace	Replace
	Bearings	Check	Replace
	Disc	Check	Check
	Shaft	Check	Check
<b>Actuator</b>	Bearings	Replace	Replace
	Soft parts	Replace	Replace
	Springs	Check	Replace
<b>Valve controller, ND9000</b>	Complete device	Calibration	Calibration, replace after 4,500 kcycles
	Spool valve	Replace	Replace
	Diaphragms set for model ND92XX	3 years and 6 years	Replace
	Prestage	No action	Check
<b>Valve controller, NDX</b>	Position feedbacksystem (linear valves)	Replace	Replace
	Complete device	Download and analyse diagnostics Calibrate reset counters	Download and analyse diagnostics Calibrate reset counters
	Prestage bottom filter	Replace	Replace
	Silencers	Replace	Replace
	Pneumatic set	No actions	Replace
<b>Solenoid valve</b>	Complete device	Check	Replace
<b>Booster / quick exhaust valve</b>	Complete device	Check	Replace
<b>Limit switch</b>	Complete device	Check	Check
<b>Air filter</b>	Complete device	Replace	Replace

### Wearing out of devices:

Bearings and  
sealing elements



Springs, bearings  
and sealing elements



Valve controller  
components



Instrumentation  
components



Operational benefits:



Improved plant  
availability



Optimized  
performance



Ensured  
quality



Improved  
safety

Minimize plant risks

Following the valve manufacturer's maintenance recommendations ensures plant availability.

## Mapag valve maintenance recommendations for PSA units BAC / BAR / BAX-serie. CL600 / PN64

Components	Elements	Recommended maintenance 400,000 cycles or 2 years	Recommended maintenance 800,000 cycles or 4 years
<b>Valve</b>	Shaft sealing	Replace	Replace
	Seat	Replace	Replace
	Bearings	Check	Replace
	Disc	Check	Check
	Shaft	Check	Check
<b>Actuator</b>	Bearings	Replace	Replace
	Soft parts	Replace	Replace
	Springs	Check	Replace
<b>Valve controller, ND9000</b>	Complete device	Calibration	Calibration, replace after 4,800 kcycles
	Spool valve	Replace	Replace
	Prestage	No action	Check
	Position feedback system (linear valves)	Replace	Replace
<b>Valve controller, NDX</b>	Complete device	Download and analyse diagnostics Calibrate reset counters	Download and analyse diagnostics Calibrate reset counters
	Prestage bottom filter	Replace	Replace
	Silencers	Replace	Replace
	Pneumatic set	No actions	Replace
<b>Solenoid valve</b>	Complete device	Check	Replace
<b>Booster / quick exhaust valve</b>	Complete device	Check	Replace
<b>Limit switch</b>	Complete device	Check	Check
<b>Air filter</b>	Complete device	Replace	Replace

### Wearing out of devices:

Bearings and sealing elements



Springs, bearings and sealing elements



Valve controller components



Instrumentation components



Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety