

Minimize plant risks

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

# Mapag 3 lever BH

## valve maintenance recommendation for Molecular sieve units

Component	Element	Non retrofitted valves or valves sold before 2016		Retrofitted valves or valves sold from 2016 every TAR (5,6 years)
		every 3 years	every TAR (5,6 years)	
Valve	Seat	Check	N/A	N/A
	Bearings, seals	Replace	N/A	N/A
	Seat, Bearings, Seals	N/A	Replace	Replace
	Shaft	Check	Check	Check
	Disc	Check	Check	Check
	Levers	Check	Check	Check
Actuator (Mapag)	Bearings, seals, Keilpack	N/A	Replace	Replace
	Housing,Cylinder	N/A	Check	Check
	Pistons	N/A	Check	Check
	Shaft	N/A	Check	Check
Actuator (Neles)	Soft parts	N/A	Replace	Replace
	Housing,Cylinder	N/A	Check	Check
	Leverage assembly	N/A	Replace every 2nd TAR	Replace every 2nd TAR
Solenoid pilot valve	Complete device	Check	Check	Check
Limit switch	Complete device	Check	Check	Check
Air Filter	Complete device	Check	Replace	Replace

### Design improvement BH-valves (retrofit and valve sold from 2016):

Corrosion protection (stainless steel / coated parts), higher grade bearings (DU-B) and pins (XM-19) and bearing / shaft sealing protection. Service interval for retrofitted and new valves is 6 years.

### Valve components:

Bearings and sealing elements



Bearings and sealing elements



Instrumentation components



Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety