

Warm valves maintenance recommendation for Air Separation Units

(Types XT, RE, 800, L, BN, BG, BB, BD)

Component		Element	Recommended maintenance every stop	Recommended maintenance interval	
Tightness requirement	Soft seated	Valve	Seat	Replace	N/A
			Seals	Replace	N/A
			Packing	Replace	N/A
		Actuator	Soft parts	Replace	N/A
		Positioner	Complete device	Check & Calibration	N/A
		Solenoid	Complete device	Check *	N/A
		Air filter	Complete device	Replace	N/A
	Metal seated	Valve	Seat	Check *	every 2 stops
			Seals	Replace	
			Packing	Replace	
		Actuator	Soft parts	Replace	
		Positioner	Complete device	Check & Calibration	
		Solenoid	Complete device	Check *	
		Air filter	Complete device	Replace	
No tightness requirement	Soft seated	Valve	Seat	N/A	every 2 stops
			Seals	N/A	
			Packing	Replace	
		Actuator	Soft parts	Replace	
		Positioner	Complete device	Check & Calibration	
		Solenoid	Complete device	Check *	
		Air filter	Complete device	Replace	
	Metal seated	Valve	Seat	N/A	every 3 stops
			Seals	N/A	
			Packing	Replace	
		Actuator	Soft parts	Replace	
		Positioner	Complete device	Check & Calibration	
		Solenoid	Complete device	Check *	
		Air filter	Complete device	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.

Oxygen (O₂) valves can be maintained only by authorized persons.

* Replace if needed

Operational
benefits:



Improved
plant availability



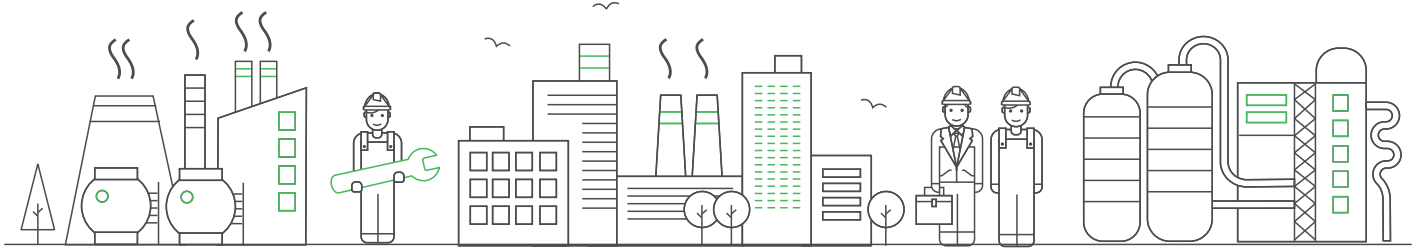
Optimized
performance



Ensured
quality



Improved
safety



Cryogenic valves maintenance recommendation for Air Separation Units (Types BE, V6A4, BK, BWX)

Component		Element	Recommended maintenance every stop	Recommended maintenance interval	
Tightness requirement	Soft seated	Valve	Seat	N/A	every 2 stops
			Seals	N/A	
			Packing	Check *	
		Actuator	Soft parts	Replace	
		Positioner	Complete device	Check & Calibration	
		Solenoid	Complete device	Check *	
		Air filter	Complete device	Replace	
	Metal seated	Valve	Seat	N/A	every 3 stops
			Seals	N/A	
			Packing	Check *	
		Actuator	Soft parts	Replace	
		Positioner	Complete device	Check & Calibration	
		Solenoid	Complete device	Check *	
		Air filter	Complete device	Replace	
No tightness requirement	Soft / Metal seated	Valve	Seat	N/A	every 3 stops
			Seals	N/A	
			Packing	Check *	
		Actuator	Soft parts	Replace	
		Positioner	Complete device	Check & Calibration	
		Solenoid	Complete device	Check *	
		Air filter	Complete device	Replace	
Welded valves	Non seated & top entry	Seat free valve type BE is basically maintenance free, a good practice is to check the internal parts after 25 years of service (packing, actuator, positioner and accessories should be maintained at every stop as mentioned in the table). Type V6A4 soft seated valves have to be maintained following above recommendation. Use of device condition monitoring helps to determine if a particular valve needs an early maintenance.			every 3 stops

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. Oxygen (O₂) valves can be maintained only by authorized persons.

* Replace if needed

Operational
benefits:



Improved
plant availability



Optimized
performance



Ensured
quality



Improved
safety