

Minimize plant risks

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

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	Replace	every 2 stops
			Seals	Replace	Replace	
			Packing	Replace	Replace	
		Actuator	Soft parts	Replace	Replace	
		Positioner	Complete device	Check & Calibration	Check & Calibration	
		Solenoid	Complete device	Check	Check	
		Air filter	Complete device	Replace	Replace	
No tightness requirement	Soft seated	Valve	Seat	N/A	Replace	every 2 stops
			Seals	N/A	Replace	
			Packing	Check/replace	Replace	
		Actuator	Soft parts	Replace	Replace	
		Positioner	Complete device	Check & Calibration	Check & Calibration	
		Solenoid	Complete device	Check	Check	
		Air filter	Complete device	Replace	Replace	
	Metal seated	Valve	Seat	N/A	Check/replace	every 3 stops
			Seals	N/A	Replace	
			Packing	Check/replace	Replace	
		Actuator	Soft parts	Replace	Replace	
		Positioner	Complete device	Check & Calibration	Check & Calibration	
		Solenoid	Complete device	Check	Check	
		Air filter	Complete device	Replace	Replace	

Other non mentioned parts are checked during maintenance in Metso Service Center. Damaged parts are replaced if possible and advice for parts replacement are made for the upcoming maintenance. Oxygen (O₂) valves can be maintained only by authorized persons.

Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety

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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	Replace	every 2 stops	
			Seals	N/A	Replace		
			Packing	Check/replace	Replace		
		Actuator	Soft parts	Replace	Replace		
		Positioner	Complete device	Check & Calibration	Check & Calibration		
		Solenoid	Complete device	Check	Check		
	Metal seated	Valve	Seat	N/A	Replace		every 3 stops
			Seals	N/A	Replace		
			Packing	Check/replace	Replace		
		Actuator	Soft parts	Replace	Replace		
		Positioner	Complete device	Check & Calibration	Check & Calibration		
		Solenoid	Complete device	Check	Check		
No tightness requirement	Soft / Metal seated	Valve	Seat	N/A	Check/replace (metal) Replace (soft)	every 3 stops	
			Seals	N/A	Replace		
			Packing	Check/replace	Replace		
		Actuator	Soft parts	Replace	Replace		
		Positioner	Complete device	Check & Calibration	Check & Calibration		
		Solenoid	Complete device	Check	Check		
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	

Other non mentioned parts are checked during maintenance in Metso Service Center. Damaged parts are replaced if possible and advice for parts replacement are made for the upcoming maintenance. Oxygen (O₂) valves can be maintained only by authorized persons.

Operational benefits:  Improved plant availability  Optimized performance  Ensured quality  Improved safety