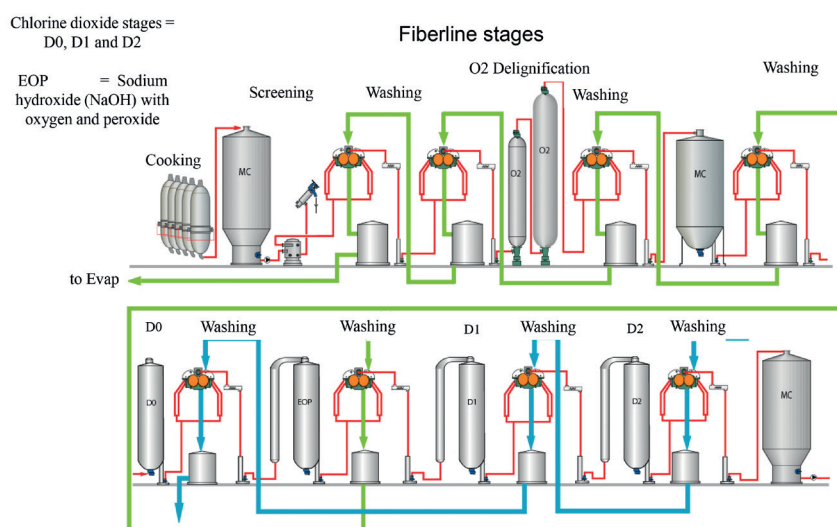


Maintenance recommendation for Neles™ valves in a fiberline – general guidelines



Valve number	Valve criticality	Process / Application	Valve Type	Details
1	●	REJECT FROM SAND SEPARATOR	Ball	Pocket feeder
2	●	SPECIAL DESIGN VALVES FOR MC PUMPS	Segment	Special segment RAS
3	●	SCREEN REJECTS	Ball	Ceramic
4	●	STOCK CLO2-stage	Ball/Segment	ON/OFF (Titanium/SMO), fast stroking
5	●	CHLORINE DIOXIDE WATER	Ball	Titanium
6	●	CONCENTRATED SULFURIC ACID	RE /3rd Party	Hastelloy or Titanium for Control / 3rd Party valve for ON-OFF
7	●	STOCK TO WASHER/TOWER CLO2-STAGE	Segment	Segment SMO/Titanium, fast stroking
8	●	TALC SLURRY	Ball	Ceramic
9	●	STEAM	Ball / Q-segment	Q- or Q2-Ball
10	●	OXYGEN	Segment / Ball	Segment Z for Control / X-ball Oxygen for ON-OFF
11	●	ACID FILTRATE, HIGH CL	Segment	Segment or Butterfly SMO
12	●	HYDROGEN PEROXIDE	Segment	Segment H -version Peroxide
13	●	SODIUM BISULPHITE	Segment	SMO
14	●	STOCK TO WASHER/TOWER NaOH-STAGE	Segment	Segment CF8M, fast stroking
15	●	BLEACHED STOCK (LOW CL)	Ball/Segment	Ball or Segment P, CF8M, fast stroking
16	●	STOCK NaOH and CLO2-STAGE	Ball/Segment	Ball or Segment P, CF8M, fast stroking
17	●	MC - PUMPS	Segment	R2 Segment
18	●	ALL OTHER SPECIAL MATERIALS		
19	●	ALL OTHER VALVES		

● Red = Critical
● Orange = Semi-Critical
● Green = Standard Maintenance

Operational benefits:



Improved plant availability



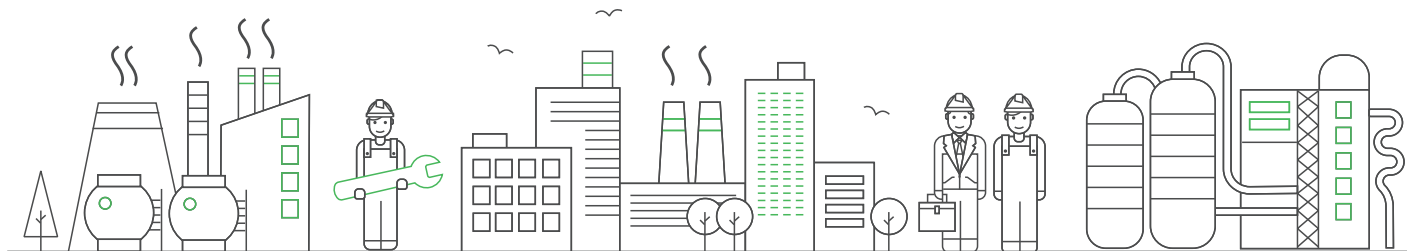
Optimized performance



Ensured quality



Improved safety



Maintenance recommendation for Neles™ valves in a fiberline – general guidelines

Valves	Maintenance scope		
	Inspection	Minor maintenance	Major maintenance
Maintenance intervals			
Valves 1-8	Every 2 years	Every 4 years	Every 6 years
Valves 9-18	Every 3 years	Every 6 years	Every 9 years
All other valves	Every 4 years	Every 8 years	Every 12 years
Maintenance scope with required spare parts	Workshop inspection + spare part set	Workshop inspection + spare part set + seat & bearings	Workshop inspection + spare part set + seat & bearings + trim parts

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.

Wearing out of devices:



Neldisc triple eccentric disc valve



V-port segment valve, series RA



M-series ball valve

Operational benefits:



Improved plant availability



Optimized performance



Ensured quality



Improved safety