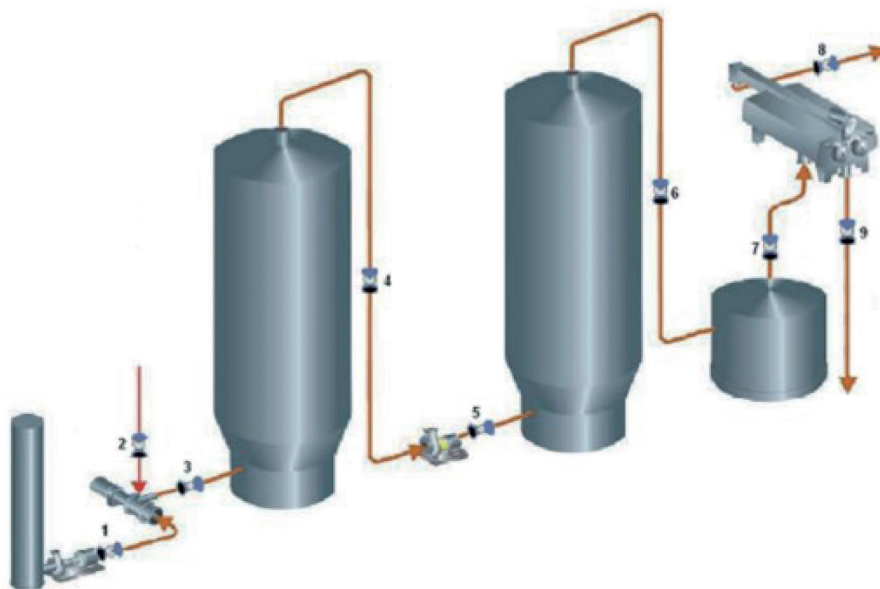


Maintenance recommendation for Neles™ valves in oxygen delignification stage

Valves	Maintenance scope		
	Inspection	Minor maintenance	Major maintenance
Maintenance intervals Valves # 1, 2 and 5	Every 2 years	Every 4 years	Every 8 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.

Oxygen delignification stage valves



Valve	Name	Valve type	Material	E.g.
1	MC control valve	High consistency segment valve	CG8M (317 SS)	R2_S../...CJJKT
2	Bleaching agent control valve	V-port segment valve	CF8M	RAA...AS OR RE_A..AJJST(A)
3	Mixer on-off valve	Ball or ON/OFF-Segment valve	CF8M	M1_A...APTA OR RE_A..AJJPT(A)
4	Control valve	Ball or V-port segment valve	CF8M	M1_A...APTA OR RE_A..AJJST(A)
5	Pump on-off valve	Ball valve	CF8M	M1_A...APTA
6	Control valve	V-port segment valve	CF8M	RE_A..AJJST(A)
7	Discharge tank control valve	V-port segment valve	CF8M	RE_A..AJJST(A)
8	Bleached and washed pulp valve	V-port segment or ball valve	CF8M	RE_A..AJJST(A)
9	Filtrate valve	V-port segment or Triple eccentric disc valve	CF8M	RE_A..AJJST(A) or L12A...AA