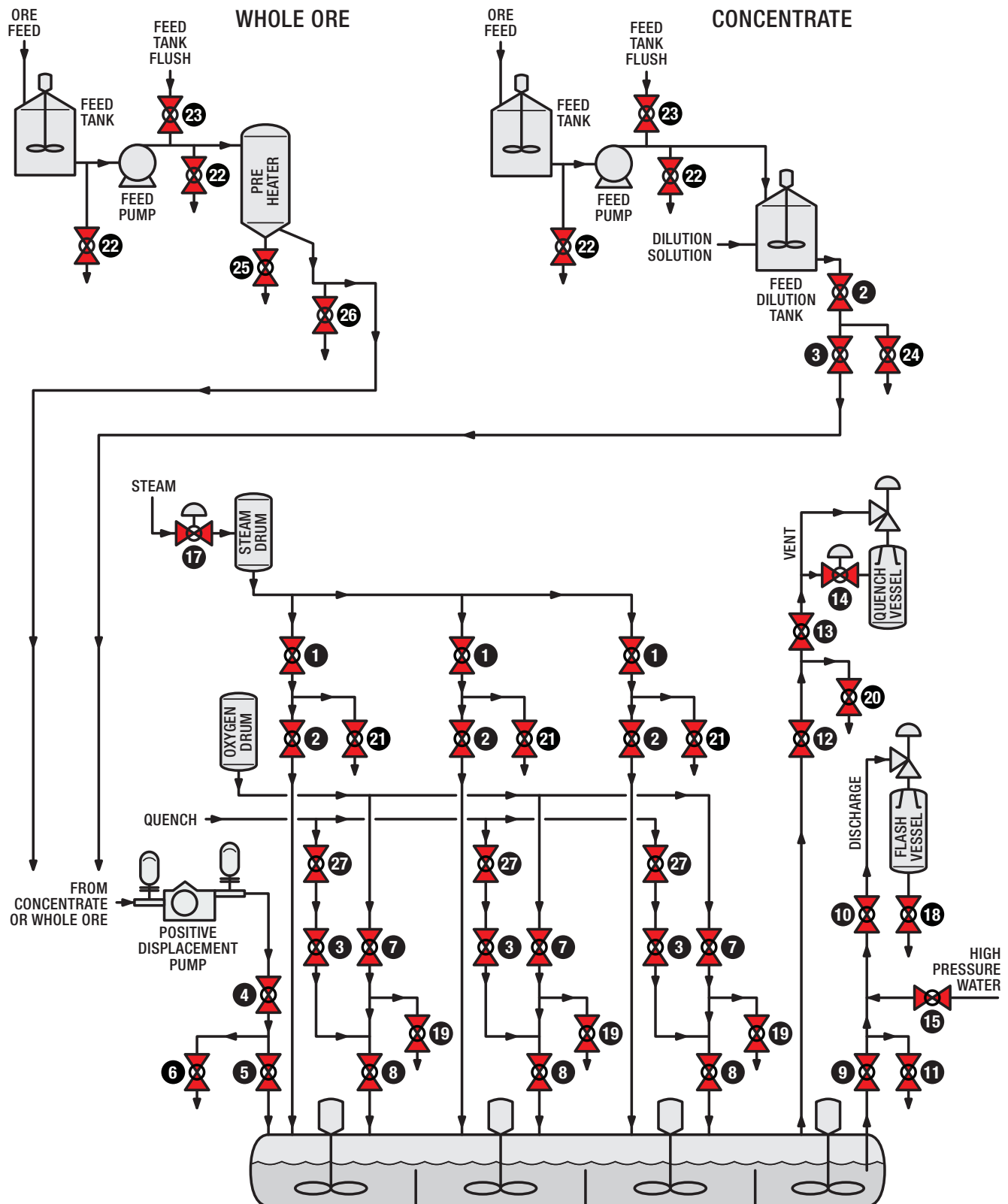




Autoclave-POx

Valve Number	Valve Description	Design Temperature		Design Pressure		Pipe Size		Recommended Valve		
		° F	° C	psi (g)	bar	inches	dn	PL-AU2	Watson Series	Flex-Stream®
1	Steam Isolation-Secondary ¹	530	277	1,500	103	1-2	25-50	•	•	
2	Steam Isolation-Primary ¹	530	277	1,500	103	1-2	25-50	•	•	
3	Quench Isolation-Primary	455	235	1,500	103	4-8	100-200		•	
4	Slurry Feed Pump Isolation-Secondary	455	235	1,500	103	2-8	50-200	•		
5	Slurry Feed Pump Isolation-Primary	455	235	1,500	103	2-8	50-200	•		
6	Slurry Feed Pump Drain	455	235	1,500	103	1-2	25-50		•	
7	Oxygen Isolation-Secondary	498	259	1,500	103	1-4	25-100		•	
8	Oxygen Isolation-Primary	498	259	1,500	103	1-4	25-100		•	
9	Discharge Isolation-Primary	455	235	1,500	103	4-10	100-250	•		
10	Discharge Isolation-Secondary	455	235	1,500	103	4-10	100-250	•		
11	Discharge Line Drain	455	235	1,500	103	1-2	25-50		•	
12	Vent Isolation-Primary	455	235	1,500	103	4-8	100-200		•	
13	Vent Isolation-Secondary	455	235	1,500	103	4-8	100-200		•	
14	Rapid Depressurization	450+	232+	522+	36+	4-8	100-200			•
15	High Pressure Choke Water Fill	104	40	870	60	1-3	25-80		•	
16	—	—	—	—	—	—	—			
17	Steam Supply Control	530	277	1,500	103	4-8	100-200			•
18	Flash Vessel Drain	230	110	750	52	2-4	50-100		•	
19	Sparge Drain Vent	498	259	1,500	103	0.5-1.5	15-40		•	
20	Vent Isolation Drain	455	235	1,500	103	1-2	25-50		•	
21	Steam Supply Drain	530	277	1,500	103	0.5-2	15-50		•	
22	Feed Tank Pump Drain	446	230	750	52	2-3	50-80		•	
23	Feed Tank Flush System	140	60	1,500	103	2-3	50-80		•	
24	Feed Dilution Drain	140	60	1,500	103	2-3	50-80		•	
25	Pre-Heater Drain	530	277	1,500	103	2-8	50-200		•	
26	Slurry Feed Pump Suction Drain	518	270	1,500	103	2-3	50-80		•	
27	Quench Isolation-Secondary	455	235	1,500	103	2-8	50-200		•	

¹ If combined sparge, Watson Series is recommended. If steam is separated from oxygen, PL-AU2 is recommended.