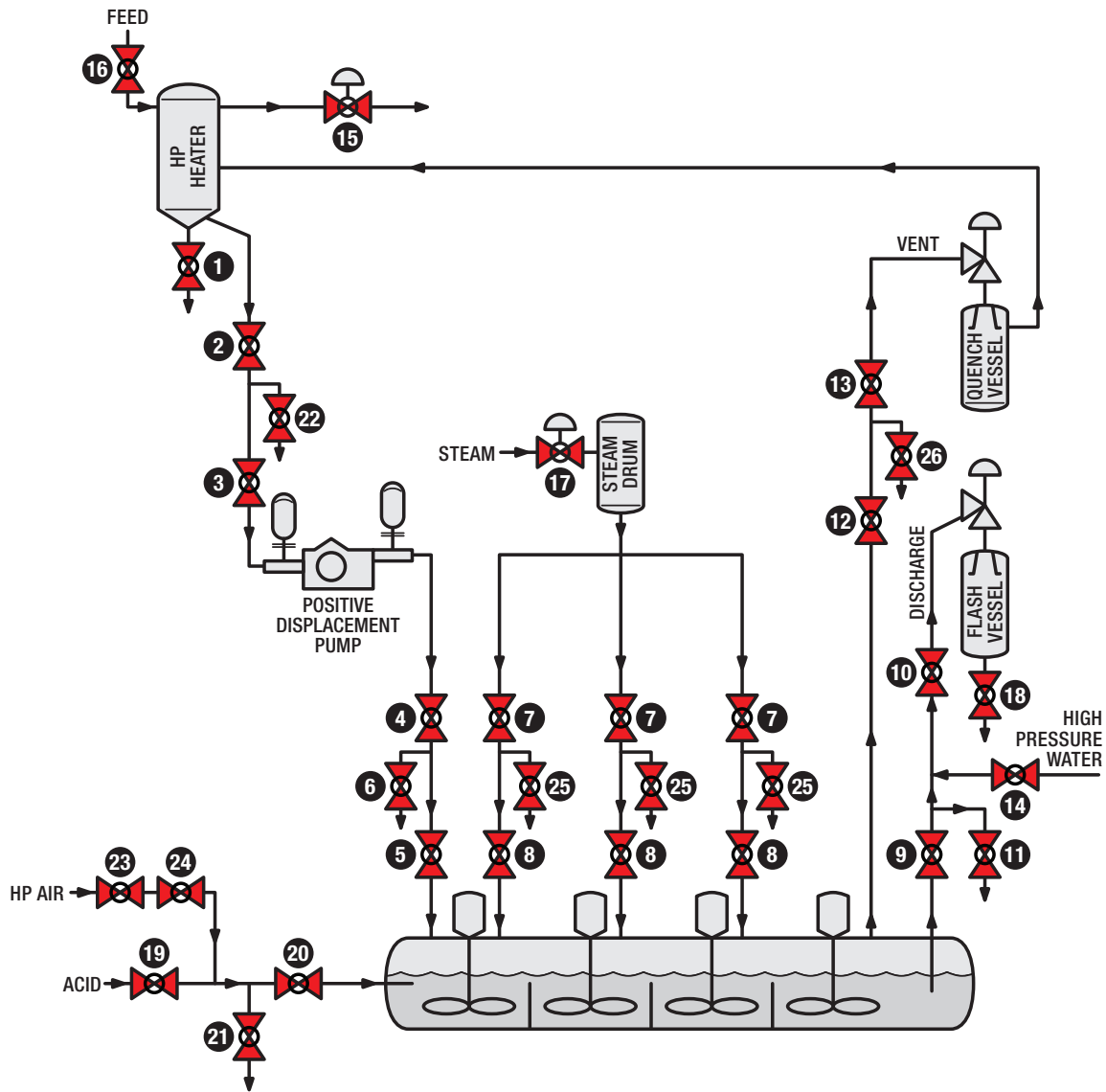


# Autoclave

## High Pressure Acid Leaching (HPAL)



# Autoclave

## High Pressure Acid Leaching (HPAL)

Autoclave-HPAL												
Valve Number	Valve Description	Design Temperature		Design Pressure		Pipe Size		Recommended Valve				
		° F	° C	psi (g)	bar	inches	dn	PL-AU2	PL-NI	PL-AV	Watson Series	Rotary Tech™
1	HP Heater Vessel Drain	446	230	750	52	2-3	50-80				•	
2	HP Heater Isolation	466	241	750	52	10-14	250-350	•				
3	Slurry Pump Suction Isolation	466	241	750	52	10-14	250-350	•				
4	Slurry Feed Pump Isolation-Secondary	466	241	1,500	103	10-12	250-300	•				
5	Slurry Feed Pump Isolation-Primary	466	241	1,500	103	10-12	250-300	•				
6	Slurry Feed Pump Discharge Drain	466	241	1,500	103	2-4	250-100				•	
7	Steam Isolation-Secondary	530	277	1,500	103	6-10	250-300		•			
8	Steam Isolation-Primary	530	277	1,500	103	6-10	250-300		•			
9	Discharge Isolation-Primary	518	270	1,500	103	12-16	300-400		•			
10	Discharge Isolation-Secondary	518	270	1,500	103	12-16	300-400		•			
11	Discharge Line Drain	518	270	1,500	103	2-3	50-80				•	
12	Vent Isolation-Primary	518	270	1,500	103	3-10	80-250		•			
13	Vent Isolation-Secondary	518	270	1,500	103	3-10	80-250		•			
14	High Pressure Choke Water Fill	104	40	870	60	1-3	25-80				•	
15	Heater Pressure Control	446	230	750	52	2-6	50-150					•
16	Heater Feed Isolation	446	230	1,500	103	10-12	250-300	•				
17	Steam Supply Control	530	277	1,500	103	4-10	100-250					•
18	Flash Vessel Drain	518	270	750	52	3-4	80-100				•	
19	Acid Feed Isolation-Secondary	140	60	1,500	103	3-4	80-100			•		
20	Acid Feed Isolation-Primary	140	60	1,500	103	3-4	80-100			•		
21	Acid Line Drain	140	60	1,500	103	3-4	80-100			•		
22	Slurry Feed Pump Suction Drain	446	230	750	52	1-4	25-100				•	
23	HP Air Isolation-Primary	140	60	1,500	103	3-4	80-100				•	
24	HP Air Isolation-Secondary	140	60	1,500	103	1-2	25-50		•	•		
25	Steam Supply Drain	530	277	1,500	103	1-2	25-50				•	
26	Vent Isolation Drain	518	270	1,500	103	2-4	50-100				•	