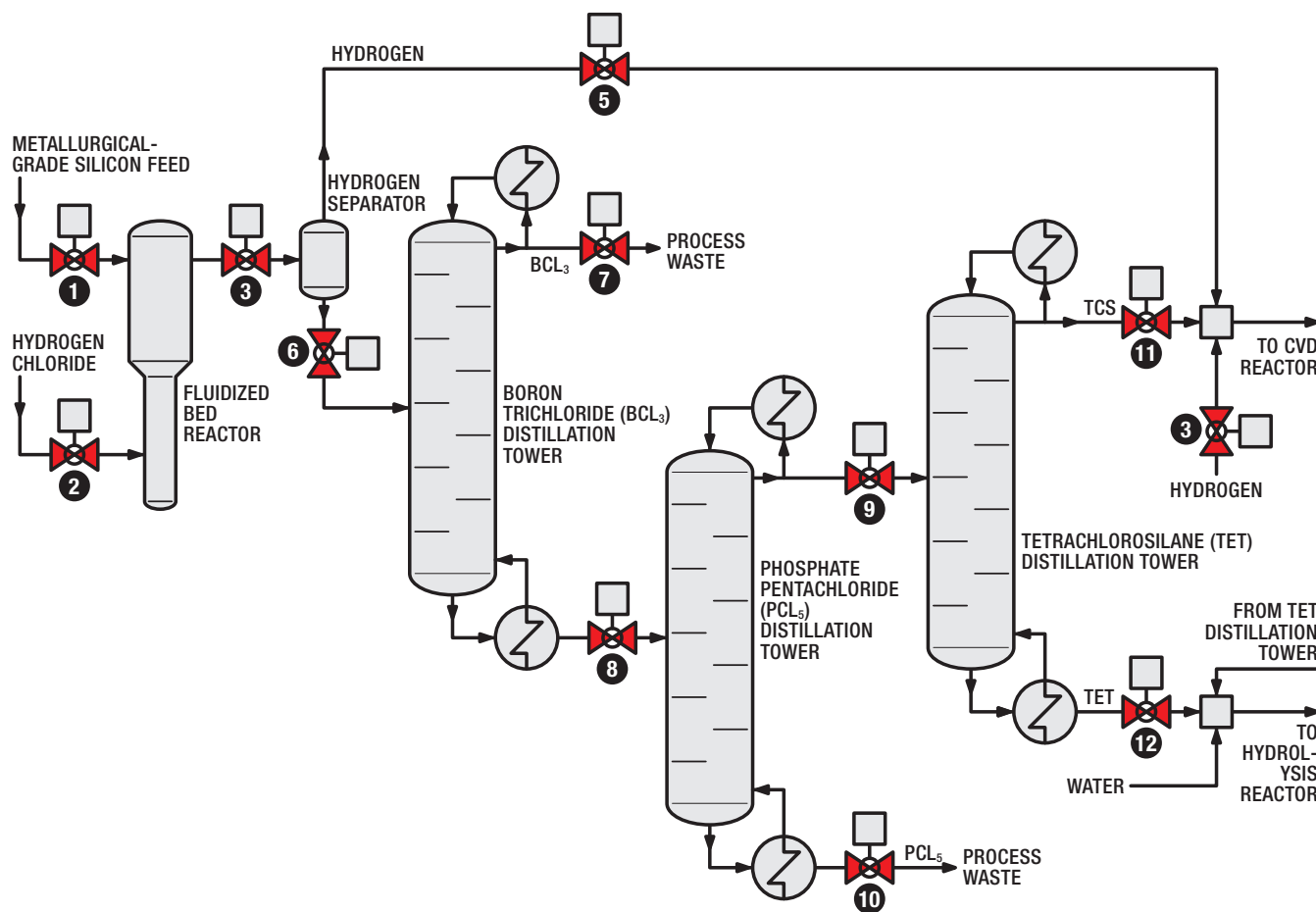


Polysilicon														
Valve Number	Valve Description	Design Temperature Range		Design Pressure Range		Pipe Size		Recommended Valve ¹						
		deg F	deg C	psig	bar g	in	dn	C-Series	T-Series	G-Series	ISOLATOR 2.0	IRSV	Watson Series	FlexStream®
1	Metallurgical Grade Silicon Feed	600 – 700	316 – 371	50 – 100	3.4 – 6.9	2 – 4	50 – 100				•			
2	Hydrochloric Acid Feed	600 – 700	316 – 371	50 – 100	3.4 – 6.9	1 – 4	25 – 100				•			
3	Fresh Hydrogen Feed	50 – 150	10 – 66	50 – 100	3.4 – 6.9	1 – 4	25 – 100				•			
4	Fluidized Bed Reactor	600 – 700	316 – 371	50 – 100	3.4 – 6.9	1 – 4	25 – 100				•			
5	Hydrogen Recycle	600 – 700	316 – 371	50 – 100	3.4 – 6.9	1 – 4	25 – 100				•			
6	Hydrogen Separator	600 – 700	316 – 371	50 – 100	3.4 – 6.9	1 – 4	25 – 100				•			
7	Boron TriChloride Waste	50 – 150	10 – 66	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
8	TriChloroSilane Distillation Tower 1	50 – 150	10 – 66	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
9	TriChloroSilane Distillation Tower 2	50 – 150	10 – 66	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
10	Phosphate PentaChloride Waste	50 – 150	10 – 66	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
11	TriChloroSilane Distillation Tower 3	50 – 150	10 – 66	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
12	TetraChloroSilane (TET) Waste	50 – 150	10 – 66	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
13	Chemical Vapor Deposition (CVD) Reactor Inlet	1650	899	50 – 100	3.4 – 6.9	2 – 6	50 – 150	•						
14	Chemical Vapor Deposition (CVD) Reactor Outlet	1650	899	50 – 100	3.4 – 6.9	2 – 6	50 – 150	•						
15	Silicon Product	1650	899	50 – 100	3.4 – 6.9	2 – 6	50 – 150	•						
16	Silicon Separator	1650	899	50 – 100	3.4 – 6.9	2 – 6	50 – 150	•						
17	Unreacted TriChloroSilane Distillation Tower	-50 – 50	-4 – 10	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
18	TetraChloroSilane (TET) Waste	100 – 200	38 – 93	50 – 150	3.4 – 10.3	2 – 6	50 – 150				•			
19	Hydrochloric Acid Distillation Tower	-50 – 50	-4 – 10	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
20	TriChloroSilane Recycle	100 – 200	38 – 93	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
21	Hydrolysis Reactor	500 – 600	260 – 316	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
22	SiliconDioxyde Cyclone Gas	500 – 600	260 – 316	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
23	SiliconDioxyde Product	500 – 600	260 – 316	50 – 100	3.4 – 6.9	2 – 6	50 – 150				•			
	Heat Exchanger	300 – 1000	149 – 538	200 – 600	13.8 – 41.3	1/2 – 2	12 – 50					•		
	General Ball Valves	600 – 700	316 – 371	100 – 600	6.9 – 41.3	1 – 3	25 – 75			•				

¹ Recommend ISOLATOR 2.0 or T-Series if size, pressure and temperature conditions are met.



Continued on next page

