



We Solve Control Valve Problems®

Required Information for Bypass Sizing for Conventional Fossil Fired Power Plant and Combined Cycle Power Plant

Name: _____

Plant: _____

Phone: _____

HP Bypass to CRH	Cond 1 Normal	Cond 2 Maximum	Cond 3 Minimum	Cond 4 Start-up
Mass Flow Rate (kg/s or lb/hr)				
Inlet Pressure (bar a or psia)				
Inlet Temperature (°C or °F)				
Outlet Pressure (bar a or psia)				
Outlet Temperature (°C or °F)				
Water Pressure (bar a or psia)				
Water Temperature (°C or °F)				
Optional Inlet Pipe Details	Material		Sch/Profile	
Optional Outlet Pipe Details	Material		Sch/Profile	
Optional Water Connection Details				
Design Pressure	Steam Inlet		Water Inlet	
Design Temperature	Steam Inlet		Water Inlet	
Operating Time	Open		Close	
Operator, Pnu? Hyd?				
Noise Requirements @ 1m				
Shutoff Class Requirement	Steam Valve		Water Valve	
Distance from HP Header (m)				

HRH Bypass to Condenser	Cond 1 Normal	Cond 2 Maximum	Cond 3 Minimum	Cond 4 Start-up
Mass Flow Rate (kg/s or lb/hr)				
Inlet Pressure (bar a or psia)				
Inlet Temperature (°C or °F)				
Condenser Pressure (bar a or psia)				
Dump Tube Pressure (bar a or psia)	Based on maximum flow condition			
Outlet Enthalpy				
Water Pressure bar a or psia				
Water Temperature (°C or °F)				
Optional Inlet Pipe Details	Material		Sch/Profile	
Optional Outlet Pipe Details	Material		Sch/Profile	
Optional Water Connection Details				
Design Pressure	Steam Inlet		Water Inlet	
Design Temperature	Steam Inlet		Water Inlet	
Operating Time	Open		Close	
Operator, Pnu? Hyd?				
Noise Requirements @ 1m				
Shutoff Class Requirement	Steam Valve		Water Valve	
Distance to Condenser Wall/Duct				

HRH Bypass to atmosphere	Cond 1 Normal	Cond 2 Maximum	Cond 3 Minimum	Cond 4 Start-up
Mass Flow Rate (kg/s or lb/hr)				
Inlet Pressure (bar a or psia)				
Inlet Temperature (°C or °F)				
Silencer Back-pressure				
Optional Inlet Pipe Details	Material		Sch/Profile	
Optional Outlet Pipe Details	CCI can assume applicable diameters			
Design Pressure				
Design Temperature				
Operating Time	Open		Close	
Operator, Pnu? Hyd?				
Noise Requirements @ 1m				