

BBHR Series Installation Data Sheet

Boiler Blowdown Heat Recovery System

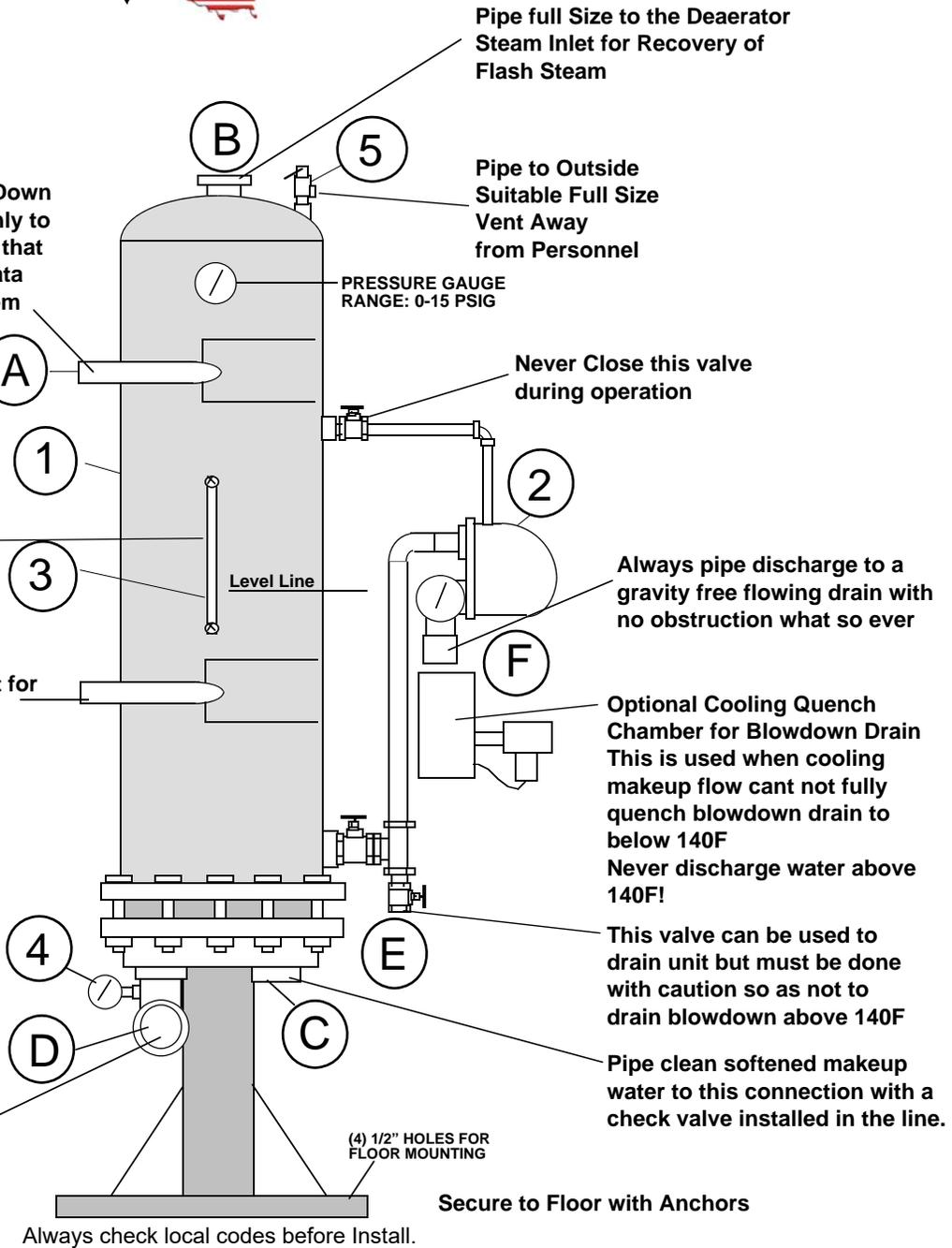


Pipe a controlled Blow Down flow from the surface only to this connection be sure that this flow is within the data sheet limit of your system

The float level trap will modulate with incoming blowdown flow. If the flow exceeds the capacity level will rise and overflow into the outlet piping. It is important to control blowdown flow. Blast uncontrolled automatic valves will cause upset conditions

Never Pipe Bottom Blow Down to the BBHR. Use an FS Flash Separator for that purpose

Pipe this discharge to the makup valve on the feedwater or deaerator tank. The flowrate will vary with load. This means the outlet water temperature will vary greatly depending upon the makup flow rate and the blowdown incoming flow rate.



Pipe full Size to the Deaerator
Steam Inlet for Recovery of
Flash Steam

Pipe to Outside
Suitable Full Size
Vent Away
from Personnel

PRESSURE GAUGE
RANGE: 0-15 PSIG

Never Close this valve
during operation

Always pipe discharge to a
gravity free flowing drain with
no obstruction what so ever

Optional Cooling Quench
Chamber for Blowdown Drain
This is used when cooling
makeup flow cant not fully
quench blowdown drain to
below 140F
Never discharge water above
140F!

This valve can be used to
drain unit but must be done
with caution so as not to
drain blowdown above 140F

Pipe clean softened makeup
water to this connection with a
check valve installed in the line.

(4) 1/2" HOLES FOR
FLOOR MOUNTING

Secure to Floor with Anchors

Always check local codes before Install.

EQUIPMENT LISTING

CONNECTION SCHEDULE

TAG	DESCRIPTION	TAG	DESCRIPTION
1	Blowdown Flash Separator, 150 psig ASME CODE Section VIII stamped, carbon steel construction, tangential inlet w/ stainless wear plate, 304 stainless steel internal U tube exchanger with baffles for cooling.	A	Surface Blowdown Inlet Connection
2	Thermaflo FT Float Operated Modulating Level Controller	B	Flash Steam to 5 psig Deaerator
3	200 psig Conbraco ASME Sight Glass Assembly.	C	Cold Feed Water Makeup Inlet
4	Outlet Makeup Water Temperature Gauge 3" Dial 50-250F Range	D	Heated Makeup Discharge
5	ASME Safety Relief Valve	E	Blowdown Drain Outlet
		F	Cooled Blowdown Outlet



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