

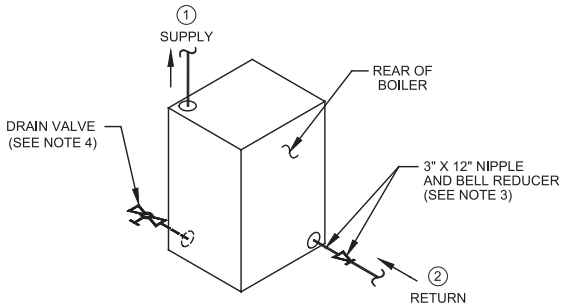
V9A Series PIPING RECOMMENDATIONS



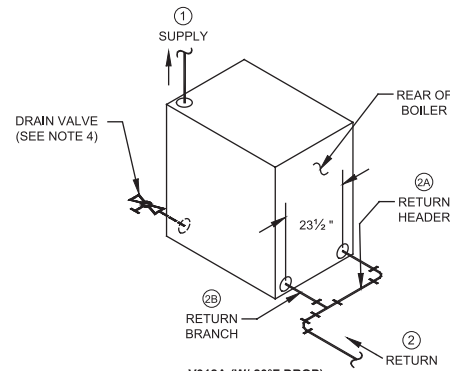
WATER AND STEAM

Water Boiler Piping

To be used when system return water is not less than 135° F for prolonged periods of time and system flow does not impact flow through the boiler



V903A THRU V911A (W/ 20°F DROP)
V903A THRU V912A (W/ 40°F DROP)



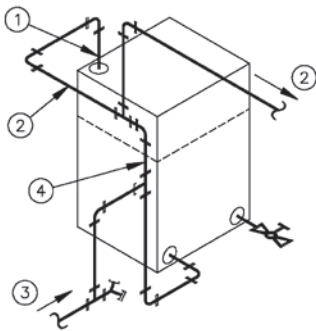
V912A (W/ 20°F DROP)

MODEL	SUPPLY PIPING SIZE (IN.) (1)		RETURN PIPING SIZE (IN.)			
			RETURN (2)		RETURN HEADER (2A)	RETURN BRANCH (QTY.) SIZE (2B)
	20°F DROP	40°F DROP	20°F DROP	40°F DROP	20°F DROP	20°F DROP
V903A	2	1-1/2	2	1-1/2	—	—
V904A	2	1-1/2	2	1-1/2	—	—
V905A	2	1-1/2	2	1-1/2	—	—
V906A	2-1/2	1-1/2	2-1/2	1-1/2	—	—
V907A	2-1/2	2	2-1/2	2	—	—
V908A	2-1/2	2	2-1/2	2	—	—
V909A	3	2	3	2	—	—
V910A	3	2-1/2	3	2-1/2	—	—
V911A	3	2-1/2	3	2-1/2	—	—
V912A	4	2-1/2	4	2-1/2	3	(2) 3

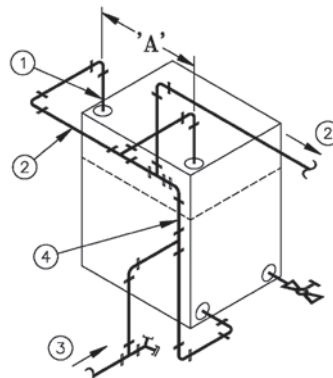
NOTES:

- All piping is schedule 40.
- Pipe sizes listed are based on a 20°F or 40°F differential (temperature drop). Select one to match application. Consult factory if boilers are used in low temperature applications or blending/mixing devices.
- When specified return piping size is less than 3", install 3" X 12" nipple and appropriate size bell reducer directly into boiler return tapping as shown.
- Drain valve—ball valve preferable, gate valve acceptable alternative (supplied by others).
– Minimum valve size per ASME code is 3/4" NPT.
- For multiple water boiler piping, consult factory.

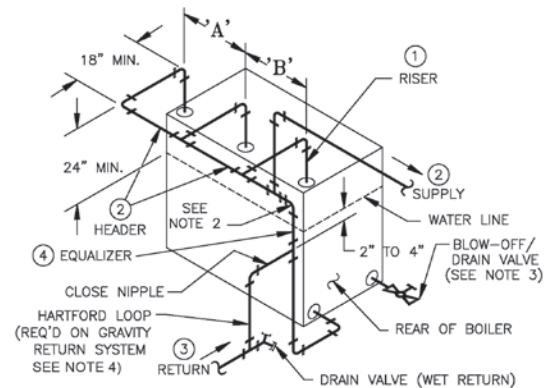
Steam Boiler Piping



V903A THRU V906A



V907A THRU V911A



V912A

MODEL	PIPING SIZE (IN INCHES)				RISER SPACING (INCHES)	
	RISER (Qty.) SIZE (1)	HEADER & SUPPLY (2)	RETURN (3)	EQUALIZER (4)	'A'	'B'
V903A	(1) 3	3	1-1/2	2	—	—
V904A	(1) 4	4	2	2	—	—
V905A	(1) 4	4	2	2	—	—
V906A	(1) 4	4	2-1/2	2-1/2	—	—
V907A	(2) 4	6	2-1/2	2-1/2	36	—
V908A	(2) 4	6	2-1/2	2-1/2	42	—
V909A	(2) 4	6	2-1/2	2-1/2	48	—
V910A	(2) 4	6	3	3	54	—
V911A	(2) 4	6	3	3	60	—
V912A	(3) 4	6	3	3	30	36

NOTES:

- All piping is schedule 40.
- To prevent condensate from being trapped in header, do not reduce equalizer elbow at header connection.
- Drain/blowoff valve—ball valve preferable, gate valve acceptable alternative (supplied by others).
– Minimum valve size per ASME code is 3/4" NPT 903A/905A; 1" NPT 906A/910A; 1-1/4" NPT 911A/912A.
– Increasing the valve size will improve the blowdown operation.
– In all cases, piping connection blowoff valve to boiler should be full size to the point of discharge.
- For pumped return systems, see V9A installation manual.
- For multiple steam boiler piping, consult factory.