

Bryan Steam recommends all boiler feed water quality standards should be determined locally by a reputable and qualified water treatment company. For reference in discussing water quality with your local chemical treatment company, the following table includes average water quality values as recommended from numerous sources, including ASME, ABMA, chemical treatment companies and boiler water treatment publications.

Operating Pressure 0-300 PSIG	
Steam	
Total Dissolved Solids (ppm)	0.2-0.1
Boiler Water	
Total Dissolved Solids (ppm)	700-3500
Alkalinity Maximum (ppm of CaCO ₃)	350
Total Suspended Solids Maximum (ppm)	15
Conductivity (μmho/cm)	1100-5400
Silica Maximum (ppm SiO ₂)	150
Feed Water (Condensate & Makeup, After Oxygen Scavenger)	
Dissolved Oxygen Maximum (ppm O ₂)	0.007
Total Iron Maximum (ppm Fe)	0.1
Total Copper Maximum (ppm Cu)	0.05
Total Hardness Maximum (ppm CaCO ₃)	0.3
pH @ 77°F (25°C)	8.3-10.0
Nonvolatile Total Organic Carbon Maximum (ppm C)	1
Oily Matter Maximum (ppm)	1
Make-up At 0.5% Blowdown	
Total Dissolved Solids Maximum (ppm)	11.4
Silica Maximum (ppm SiO ₂)	0.75
Make-up At 1% Blowdown	
Total Dissolved Solids Maximum (ppm)	22.8
Silica Maximum (ppm SiO ₂)	1.5
Make-up At 2% Blowdown	
Total Dissolved Solids Maximum (ppm)	45.5
Silica Maximum (ppm SiO ₂)	3
Make-up At 3% Blowdown	
Total Dissolved Solids Maximum (ppm)	68.3
Silica Maximum (ppm SiO ₂)	4.5

Note: 1 ppm = 1 mg/l