

**13 NCAC 13 .0404 CONTROLS AND SAFETY DEVICES**

Boilers and pressure vessels shall be equipped with all suitable controls and safety devices required for safe operation of the equipment. Controls and safety devices shown in Table-0404 in this Rule are considered minimum requirements for the various types of boilers and pressure vessels listed. All devices required in this Rule and shown in Table-0404 are suitable for the maximum allowable operating pressure and temperature of the boiler or pressure vessel on which they are installed. The design, construction, installation, and operational requirements for controls and safety devices are as required in Rules .0405 through .0420 of this Section.

TABLE-0404

REQUIRED DEVICE AND REFERENCED RULE	HIGH PRESSURE BOILER	STEAM HEATING BOILER	HOT WATER HEATING BOILER	HOT WATER SUPPLY BOILER	WATER HEATER	PRESSURE VESSEL
Pressure Relief Device .0405	X	X	X	X	X	X
High Limit Control .0406	X	X	X	X	X	
Pressure Gauge .0407	X	X	X	X		X
Steam Syphon (steam boilers only) .0407	X	X				
Water Column & Gauge Glass (steam boilers only) .0408	X	X				
Low-Water Fuel Cutoff (If input > 400,000 Btu) .0409	X	X	X	X		
Temperature Gauge .0410			X	X	X	
Bottom Blowoff Valves .0411	X	X				
Drain Valves .0411	X	X	X	X	X	X
Make-up Water Stop Valve(s) .0411	X	X	X	X	X	
Expansion Tank .0412			X	X	X	
Flame Failure Control .0420	X	X	X	X		

*History Note: Authority G.S. 95-69.11; 95-69.14; Eff. January 1, 1995; Amended Eff. July 1, 2011; January 1, 2009; July 1, 2006; Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. July 22, 2018.*