

BOILER DATA

FAX

PHONE

CONTACT NAME

COMPANY

BOILER MFG. NAME

BURNER MFG. NAME

TODAY'S DATE

STREET

MODEL #

MODEL #

CERTIFICATE EXP. DATE

CITY

SERIAL #

SERIAL #

INS. CARRIER

ZIP

BTU INPUT

Power / Mechanical Draft

Atmospheric (Natural Draft)

Operating Pressure

Steam

Hot Water

ASME SAFETY STANDARD #CSD-1 CONTROLS & SAFETY DEVICES GUIDELINES FOR AUTOMATICALLY GAS FUEL FIRED BOILERS				POWER & MECHANICAL DRAFT BURNERS				ATMOSPHERIC (NATURAL DRAFT) BURNERS				Associated Standard Paragraph	
				Input in Btu/h									
				Less than 400,000 <small>(Including Modular Boilers with maximum inputs of 400,000 per module)</small>	400,000 to 2,500,000	2,500,000 to 5,000,000	5,000,000 to 12,500,000	Less than 400,000 <small>(Including Modular Boilers with maximum inputs of 400,000 per module)</small>	400,000 to 2,500,000	2,500,000 to 5,000,000	5,000,000 to 12,500,000		
INSTALLED	NOT INSTALLED	NOT REQUIRED	SYSTEM CONTROL SPECIFICATIONS										
INTERLOCKS / LIMITS													
			Approved Operating Controllers Steam Boilers (Pressure)	Required ①	Required	Required	Required	Required	Required	Required	Required	CW-120, CW-140 CW-310 (b), CW-620 (b)	
			Hot Water Boilers (Temp)	Required ②	Required	Required	Required	Required	Required	Required	Required	CW-120, CW-130 CW-310 (b), CW-620 (b)	
			High Limits Steam Boilers (Pressure) (MANUAL RESET)	Required ③	Required	Required	Required	Required	Required	Required	Required	CW-310 (c), CW-620 (a)	
			Hot Water Boilers (Temp) (MANUAL RESET)	Required ④	Required	Required	Required	Required	Required	Required	Required	CW-410 (b), CW-640 (a)	
			High Gas Pressure (MANUAL RESET)		⑤	Required	Required			Required	Required	CF-162 CW-410 (b), CW-640 (a)	
			Low Gas Pressure (MANUAL RESET)		⑤	Required	Required			Required	Required	CF-162, CF-910, CF-410 Tables CF-1, CF-2, CF-4	
			Valve Seal Overtravel Interlock (Proof of Closure Switch)		⑥	⑥	⑦			⑥	⑥	⑦	CF-180
			High Fire Switch (Normally located in mod motor)		⑧	⑨	⑨			⑩	⑩	⑩	CF-210 (a) (2) (c). CF-910 Tables CF-1, CF-2, CF-4
			Low Fire Switch (Normally located in mod motor)			Required	Required			Required	Required	CF-610	
LOW-WATER FUEL CUTOFFS													
			Low Pressure Steam (MANUAL RESET)	(2) Required ⑪ ⑫ ⑬	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪ ⑫ ⑬	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪	CW-120 (a) (b), CF-210 (a) (b), CW-610 (a) (b)	
			High Pressure Steam (MANUAL RESET)	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	CF-210 (d), CW-140 (a)	
			Hot Water Boilers (MANUAL RESET)	(1) Required ⑭ ⑮	(1) Required	(1) Required	(1) Required	(1) Required ⑭ ⑮	(1) Required	(1) Required	(1) Required	CF-210 (c), CW-130 (a), CW-630 (a) (b)	
			Forced Circulation (MANUAL RESET)	⑯	⑯	⑯	⑯	⑯	⑯	⑯	⑯	CF-210 (e), CW-210 (a) (b)	
			Supervise Purge Air		Required ⑧	Required ⑨	Required ⑨			⑩	⑩	⑩	CF-210 (a) (b) (c), Tables CF-1, CF-2, CF-4
			Proven Combustion Air	Required	Required	Required	Required					Tables CF-1, CF-2, CF-4	
			Action on Loss of Combustion Air	⑰	⑱	Safety Shutdown	Safety Shutdown					Tables CF-1, CF-2, CF-4	
PILOT VALVE TRAIN													
			Approved Safety Shutoff Valve(s)	Required	Required	Required	Required	Required	Required	Required	Required	CF-180 (c).	
			Manual Shutoff Valve(s)	Required	Required	Required	Required	Required	Required	Required	Required	CF-150 (c).	
			Gas Pressure Regulator	Required	Required	Required	Required	Required	Required	Required	Required	CF-110 (a) (1) UL795, 25.15, CF-160, CF-161 (b) Figs B-1, B-2, B-3, B-4	
MAIN VALVE TRAIN													
			Approved Safety Shutoff Valve(s)	(1) Required	(1) or (2) Required ⑳	(1) or (2) Required ⑳	(2) Required ㉑	(1) Required	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(2) Required ㉑	CF-180 (b) (1) (2) (3).	
			Valve Closing Time		5 Sec Max	1 Sec Max	1 Sec Max		5 Sec Max	1 Sec Max	1 Sec Max	Tables CF-1, CF-2, CF-4	
			Manually Operated Leak Test Valve(s)		(1) or (2) Required ㉓	(1) or (2) Required ㉓	(1) or (2) Required ㉓		(1) or (2) Required ㉓	(1) or (2) Required ㉓	(1) or (2) Required ㉓	CF-150 (d)	
			Manual Shutoff Valve(s)	(1) Required	(2) Required	(2) Required	(2) Required	(1) Required	(2) Required	(2) Required	(2) Required	CF-150 (b) (d), ANSI Z21.13: 1.11.4	
			Gas Pressure Regulator	Required	Required	Required	Required	Required	Required	Required	Required	CF-150 (b) (d), ANSI Z21.13: 1.15.1 Figs B-1, B-2, B-3, B-4	
APPROVED SAFETY CONTROL SPECIFICATIONS													
			Approval Listing Label: UL/FM/CSA/AGA	Required <input type="checkbox"/>	Required <input type="checkbox"/>	Required <input type="checkbox"/>	Required <input type="checkbox"/>	Required	Required	Required	Required	CG-310 and CG-320	
			Prepurge Timing		90 Sec ⑧	⑨	⑨		⑩	⑩	⑩	CF-210 (a) (1) (2) (c). Tables CF-1, CF-2, CF-4	
			High Fire Purge Proving Circuit		⑧	⑨	⑨		⑩	⑩	⑩	CF-210 (a) (1) (2) (c). Tables CF-1, CF-2, CF-4	
			Low Fire Start Circuit			Required	Required			Required	Required	CF-610	
			Continuous Pilot	Optional	Optional	Not Permitted	Not Permitted	Optional	Optional	Not Permitted	Not Permitted	Tables CF-1, CF-2, CF-4	
			Intermittent Pilot	Optional	Optional	Not Permitted	Not Permitted	Optional	Optional	Optional	Optional	Tables CF-1, CF-2, CF-4	
			Interrupted Pilot	Optional	Optional	Required	Required	Optional	Optional	Optional	Optional	Tables CF-1, CF-2, CF-4	
			Proved Pilot	Required ㉔	Required ㉔	Required ㉔	Required ㉔	Required ㉔	Required ㉔	Required ㉔	Required ㉔	CF-320 (a) (1)	
			Pilot Flame Establishing Period (PFEP) Continuous Pilot	None	15 Sec ㉕	Not Permitted	Not Permitted	None	15 Sec ㉖	10 Sec ㉖	10 Sec	Tables CF-1, CF-2, CF-4	
			Intermittent Pilot	15 Sec	15 Sec	Not Permitted	Not Permitted	15 Sec	10 Sec	10 Sec	10 Sec	Tables CF-1, CF-2, CF-4	
			Interrupted Pilot	15 Sec	15 Sec	10 Sec	10 Sec	15 Sec	10 Sec	10 Sec	10 Sec	Tables CF-1, CF-2, CF-4	
			Main Flame Establishing Period (MFEP) Continuous Pilot	None	㉗			None	㉘	㉙	㉚	Tables CF-1, CF-2, CF-4	
			Intermittent Pilot	None	㉗			15 Sec Max	㉘	㉙	㉚	Tables CF-1, CF-2, CF-4	
			Interrupted Pilot	15 Sec Max	15 Sec Max	10 Sec Max ㉛	10 Sec Max ㉛	15 Sec Max	㉘	㉙	㉚	Tables CF-1, CF-2, CF-4	
			Direct Ignition	15 Sec Max	4 Sec Max	4 Sec Max ㉜		15 Sec Max				Tables CF-1, CF-2, CF-4	
			Supervise Main Flame	㉝	Required	Required	Required	㉝	㉝	㉞	Required	CF-310 (d) (1) (2) (3) (4)	
			Flame Failure Response Time (FFRT)	4 Sec Max ㉞	4 Sec Max	4 Sec Max	4 Sec Max	4 Sec Max ㉟ ㊱	4 Sec Max	4 Sec Max	4 Sec Max	Tables CF-1, CF-2, CF-4	
			Action of Flame Failure	Safety Shutdown ㊲ ㊳	Safety Shutdown ㊴	Safety Shutdown	Safety Shutdown	Safety Shutdown ㊲ ㊳	Safety Shutdown ㊴	Safety Shutdown ㊴	Safety Shutdown ㊴	Tables CF-1, CF-2, CF-4	
			Action on Limit Opening	Safety Shutdown	Safety Shutdown	Safety Shutdown	Safety Shutdown	Safety Shutdown	Safety Shutdown	Safety Shutdown	Safety Shutdown	CF-162 (a), CF220 (a), CW-130 (d), CW-310 (c), CW-410 (c), CF-910	

THIS FORM IS A SURVEY SHEET AND IS NOT PART OF ASME CSD-1

