

one quarter inch = one foot
one eighth inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
three inches = one foot

BOILER - DEVICE SCHEDULE																			
VA Nomenclature	Boiler No 1 Device Label	Boiler No 2 Device Label	Boiler No 3 Device Label	Device Type	System	Function	Mounting / Location	Line Size	Range / Setpoint	Point Type	Signal	Signal To/From	Annunciation Location	Annunciation Type	Remarks	Notes			
-	BBS - 3 1 0 1	BBS - 3 2 0 1	BBS - 3 3 0 1	Shunt Switch	Boiler Feedwater	Manual Re-Set	Float Type Water Column	---	Open / Closed	DI	120 V	BMS / CCS	BMS	Status	Manufacturer Furnished / Contractor Installed				
-	BBS - 3 1 0 2	BBS - 3 2 0 2	BBS - 3 3 0 2	Shunt Switch	Boiler Feedwater	Manual Re-Set (Auxiliary)	Conductivity Probe Type Water Column	---	Open / Closed	DI	120 V	BMS / CCS	BMS	Status	Manufacturer Furnished / Contractor Installed				
-	BSC - 3 1 0 3	BSC - 3 2 0 3	BSC - 3 3 0 3	Shunt Switch	Boiler Feedwater	Safety By Pass	Float Type Water Column	---	Open / Closed	DI	120 V	BMS / CCS	BMS	Blowdown Override	Manufacturer Furnished / Contractor Installed	Manual Reset			
-	BSC - 3 1 0 4	BSC - 3 2 0 4	BSC - 3 3 0 4	Shunt Switch	Boiler Feedwater	Safety By Pass (Auxiliary)	Conductivity Probe Type Water Column	---	Open / Closed	DI	120 V	BMS / CCS	BMS	Blowdown Override	Manufacturer Furnished / Contractor Installed	Manual Reset			
-	DPT - 3 1 0 5	DPT - 3 2 0 5	DPT - 3 3 0 5	Pressure Transmitter	Boiler Feedwater	Level	Float Type Water Column	---	Field Set	AI	4 20 mA DC	CCS	CCS	Status - Drum Water Level	Manufacturer Furnished / Contractor Installed				
-	FE - 3 1 0 6	FE - 3 2 0 6	FE - 3 3 0 6	Flow Element, V-Cone	Boiler Feedwater	Flow	Supply to Boiler	2"	2,300 - 23,000 PPH	AI	4 20 mA DC	BMS	BMS	Status - Flow	Manufacturer Furnished / Contractor Installed	Provide w/ FT - 3 x 0 6			
-	LCV - 3 1 0 7	LCV - 3 2 0 7	LCV - 3 3 0 7	Control Valve	Boiler Feedwater	Level	Supply to Boiler	2"	0 - 23,000 PPH	AI	23-307	---	---	---	Manufacturer Furnished / Contractor Installed				
HWAB	LSH - 3 1 0 8	LSH - 3 2 0 8	LSH - 3 3 0 8	Level Switch	Boiler Feedwater	High Level	Conductivity Probe Type Water Column	---	Field Set	DI	120 V	BMS / CCS	BMS	High Level Bell	Manufacturer Furnished / Contractor Installed				
LWA	LSL - 3 1 0 9	LSL - 3 2 0 9	LSL - 3 3 0 9	Level Switch	Boiler Feedwater	Low Level	Conductivity Probe Type Water Column	---	Field Set	DI	120 V	BMS / CCS	BMS	Low Level Bell	Manufacturer Furnished / Contractor Installed				
LWCD	LSLL - 3 1 0 3	LSLL - 3 2 0 3	LSLL - 3 3 0 3	Level Switch	Boiler Feedwater	Low-Low Level	Float Type Water Column	---	1" Below LWA	DI	120 V	BMS / CCS	BMS	Low Low Level Cut-Off Alarm	Manufacturer Furnished / Contractor Installed				
ALWCO	LSLL - 3 1 0 4	LSLL - 3 2 0 4	LSLL - 3 3 0 4	Level Switch	Boiler Feedwater	Low-Low Level (Auxiliary)	Conductivity Probe Type Water Column	---	1" Below LWCO	DI	120 V	BMS / CCS	BMS	Low Low Level Cut-Off Alarm (Auxiliary)	Manufacturer Furnished / Contractor Installed				
-	PSV - 3 1 1 0	PSV - 3 2 1 0	PSV - 3 3 1 0	Safety Valve	Boiler Feedwater	Pressure	Economizer	---	Per Manufacturer	---	---	---	---	---	Manufacturer Furnished / Contractor Installed	300 PSIG Set Pressure			
-	PT - 3 1 1 1	PT - 3 2 1 1	PT - 3 3 1 1	Pressure Transmitter	Boiler Feedwater	Pressure	Supply to Economizer	2"	0 - 250 PSIG	AI	4 20 mA DC	PMP	BAS	Status - Pressure	Contractor Furnished / Contractor Installed				
-	PT - 3 1 1 2	PT - 3 2 1 2	PT - 3 3 1 2	Pressure Transmitter	Boiler Feedwater	Pressure	Supply to Boiler	2"	0 - 250 PSIG	AI	4 20 mA DC	PMP	BAS	Status - Pressure	Contractor Furnished / Contractor Installed				
-	TT - 3 1 1 3	TT - 3 2 1 3	TT - 3 3 1 3	Temperature Transmitter	Boiler Feedwater	Temperature	Supply to Economizer	2"	32 - 392 F	AI	4 20 mA DC	CCS	CCS	Status - Temperature	Contractor Furnished / Contractor Installed	Provide w/ TE - 3 x 1 3			
-	TT - 3 1 1 4	TT - 3 2 1 4	TT - 3 3 1 4	Temperature Transmitter	Boiler Feedwater	Temperature	Supply to Boiler	2"	32 - 392 F	AI	4 20 mA DC	CCS	CCS	Status - Temperature	Contractor Furnished / Contractor Installed	Provide w/ TE - 3 x 1 4			
-	ZT - 3 1 0 7	ZT - 3 2 0 7	ZT - 3 3 0 7	Position Transmitter	Boiler Feedwater	Position Feedback	LCV-307	---	0 - 100 %	AI	4 20 mA DC	CCS	CCS	Position Indication %	Manufacturer Furnished / Contractor Installed	Fail Last Position			
-	CC - 3 1 0 1	CC - 3 2 0 1	CC - 3 3 0 1	Conductivity Controller	Blowdown	Conductivity	Supply from Boiler to CBHX-1	1"	Field Set	AI/AO	4 20 mA DC	---	---	---	Contractor Furnished / Contractor Installed				
-	CE - 3 1 0 1	CE - 3 2 0 1	CE - 3 3 0 1	Conductivity Element	Blowdown	Conductivity	Supply from Boiler to CBHX-1	1"	---	AI	4 20 mA DC	CC-301	---	---	Contractor Furnished / Contractor Installed				
-	FCV - 3 1 0 1	FCV - 3 2 0 1	FCV - 3 3 0 1	Control Valve	Blowdown	Flow	Supply from Boiler to CBHX-1	1"	Open / Closed	DI	120 V	CC-301	---	---	Contractor Furnished / Contractor Installed	Fail Open			
APFGSOV	FSV - 4 1 0 1	FSV - 4 2 0 1	FSV - 4 3 0 1	Safety Valve	Gas Ignitor	Flow	Supply to Burner	3/4"	Open / Closed	DI	120 V	BMS	---	---	Manufacturer Furnished / Contractor Installed	Fail Closed			
APFGSOV	FSV - 4 1 0 2	FSV - 4 2 0 2	FSV - 4 3 0 2	Safety Valve	Gas Ignitor	Flow	Supply to Burner	3/4"	Open / Closed	DI	120 V	BMS	---	---	Manufacturer Furnished / Contractor Installed	Fail Closed			
APFGSV	FSV - 4 1 0 3	FSV - 4 2 0 3	FSV - 4 3 0 3	Safety Valve	Gas Ignitor	Flow	Vent	---	Open / Closed	DI	120 V	BMS	---	---	Manufacturer Furnished / Contractor Installed	Fail Open			
PRV - 4 1 0 4	PRV - 4 2 0 4	PRV - 4 3 0 4	Regulating Valve	Gas Ignitor	Pressure	Pressure	Supply to Burner	3/4"	2 PSIG / 300 SCFH	---	---	---	---	---	Manufacturer Furnished / Contractor Installed	Fail Open			
PRV - 4 1 0 5	PRV - 4 2 0 5	PRV - 4 3 0 5	Regulating Valve	Liquefied Petroleum Gas	Pressure	Pressure	Supply to Burner	1/2"	8 PSIG / 120 SCFH	---	---	---	---	---	Manufacturer Furnished / Contractor Installed	Fail Closed			
PSH - 4 1 0 6	PSH - 4 2 0 6	PSH - 4 3 0 6	Pressure Switch	Gas Ignitor	High Pressure	High Pressure	Supply to Burner	3/4"	Field Set	DI	120 V	BMS	BMS	High Pressure Alarm	Manufacturer Furnished / Contractor Installed				
LFGPCS	PSL - 4 1 0 7	PSL - 4 2 0 7	PSL - 4 3 0 7	Pressure Switch	Gas Ignitor - NG	Low Pressure	Supply to Burner	3/4"	80% of Regulated Pressure	DI	120 V	BMS	BMS	Low Pressure Alarm	Manufacturer Furnished / Contractor Installed				
LFGPCS	PSL - 4 1 0 8	PSL - 4 2 0 8	PSL - 4 3 0 8	Pressure Switch	Gas Ignitor - LPG	Low Pressure	Supply to Burner	3/4"	80% of Regulated Pressure	DI	120 V	BMS	BMS	Low Pressure Alarm	Manufacturer Furnished / Contractor Installed				
ZSC - 4 1 0 1	ZSC - 4 2 0 1	ZSC - 4 3 0 1	Position Switch	Gas Ignitor	Position Verification	Position Verification	FSV-401	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed				
ZSC - 4 1 0 2	ZSC - 4 2 0 2	ZSC - 4 3 0 2	Position Switch	Gas Ignitor	Position Verification	Position Verification	FSV-402	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed				
ZSC - 4 1 0 3	ZSC - 4 2 0 3	ZSC - 4 3 0 3	Position Switch	Gas Ignitor	Position Verification	Position Verification	FSV-403	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed				
ZSO - 4 1 0 1	ZSO - 4 2 0 1	ZSO - 4 3 0 1	Position Switch	Gas Ignitor	Position Verification	Position Verification	FSV-401	---	Open	DI	120 V	BMS	BMS	Position Verification - Fully Open	Manufacturer Furnished / Contractor Installed				
ZSO - 4 1 0 2	ZSO - 4 2 0 2	ZSO - 4 3 0 2	Position Switch	Gas Ignitor	Position Verification	Position Verification	FSV-402	---	Open	DI	120 V	BMS	BMS	Position Verification - Fully Open	Manufacturer Furnished / Contractor Installed				
ZSO - 4 1 0 3	ZSO - 4 2 0 3	ZSO - 4 3 0 3	Position Switch	Gas Ignitor	Position Verification	Position Verification	FSV-403	---	Open	DI	120 V	BMS	BMS	Position Verification - Fully Open	Manufacturer Furnished / Contractor Installed				
FCV - 4 1 0 8	FCV - 4 2 0 8	FCV - 4 3 0 8	Control Valve	Natural Gas	Flow	Flow	Supply to Burner	3"	0 - 25,000 SCFH	AI	23-408	---	---	---	Manufacturer Furnished / Contractor Installed	Fail Closed			
FE - 4 1 0 9	FE - 4 2 0 9	FE - 4 3 0 9	Flow Element, Thermal Mass	Natural Gas	Flow, Totalizing	Flow, Totalizing	Supply to Burner	4"	2,500 - 25,000 SCFH	AI	4 20 mA DC	CCS	CCS	Status - Flow	Contractor Furnished / Contractor Installed	Provide w/ FT - 4 x 0 9			
AFGSOV	FSV - 4 1 1 0	FSV - 4 2 1 0	FSV - 4 3 1 0	Safety Valve	Natural Gas	Flow	Supply to Burner	3"	Open / Closed	DI	120 V	BMS	---	---	Manufacturer Furnished / Contractor Installed	Fail Closed			
AFGSOV	FSV - 4 1 1 1	FSV - 4 2 1 1	FSV - 4 3 1 1	Safety Valve	Natural Gas	Flow	Supply to Burner	3"	Open / Closed	DI	120 V	BMS	---	---	Manufacturer Furnished / Contractor Installed	Fail Closed			
AFGSOV	FSV - 4 1 1 2	FSV - 4 2 1 2	FSV - 4 3 1 2	Safety Valve	Natural Gas	Flow	Vent	---	Open / Closed	DI	120 V	BMS	---	---	Manufacturer Furnished / Contractor Installed	Fail Open			
PRV - 4 1 1 3	PRV - 4 2 1 3	PRV - 4 3 1 3	Regulating Valve	Natural Gas	Pressure	Pressure	Supply to Burner	3"	5 PSIG / 25,000 SCFH	---	---	---	---	---	Manufacturer Furnished / Contractor Installed	Field Set			
HFGPCS	PSH - 4 1 1 4	PSH - 4 2 1 4	PSH - 4 3 1 4	Pressure Switch	Natural Gas	High Pressure	Supply to Burner	3"	6 PSIG	DI	120 V	BMS	BMS	High Pressure Alarm	Manufacturer Furnished / Contractor Installed	Setpoint No Higher Than 100% of Regulated Pressure			
LFGPCS	PSL - 4 1 1 5	PSL - 4 2 1 5	PSL - 4 3 1 5	Pressure Switch	Natural Gas	Low Pressure	Supply to Burner	3"	4 PSIG	DI	120 V	BMS	BMS	Low Pressure Alarm	Manufacturer Furnished / Contractor Installed	Setpoint No Higher Than 80% of Regulated Pressure			
PT - 4 1 1 6	PT - 4 2 1 6	PT - 4 3 1 6	Pressure Transmitter	Natural Gas	Pressure	Pressure	Supply to Burner	3"	0 - 25 PSIG	AI	4 20 mA DC	PMP	BAS	Status - Pressure	Contractor Furnished / Contractor Installed				
PT - 4 1 1 7	PT - 4 2 1 7	PT - 4 3 1 7	Pressure Transmitter	Natural Gas	Pressure	Pressure	Supply to Burner	3"	0 - 25 PSIG	AI	4 20 mA DC	PMP	BAS	Status - Pressure	Contractor Furnished / Contractor Installed				
ZSC - 4 1 0 8	ZSC - 4 2 0 8	ZSC - 4 3 0 8	Position Switch	Natural Gas	Position Verification	Position Verification	FCV-408	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed				
LPFS	ZSC - 4 1 0 9	ZSC - 4 2 0 9	ZSC - 4 3 0 9	Position Switch	Natural Gas	Position Verification	FCV-408	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed				
POC-AFGSOV	ZSC - 4 1 1 0	ZSC - 4 2 1 0	ZSC - 4 3 1 0	Position Switch	Natural Gas	Position Verification	FSV-410	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed	Wired in Series with ZSC-4x11 ①			
POC-AFGSOV	ZSC - 4 1 1 1	ZSC - 4 2 1 1	ZSC - 4 3 1 1	Position Switch	Natural Gas	Position Verification	FSV-411	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed	Wired in Series with ZSC-4x11 ②			
ZSC - 4 1 1 2	ZSC - 4 2 1 2	ZSC - 4 3 1 2	Position Switch	Natural Gas	Position Verification	Position Verification	FSV-412	---	Closed	DI	120 V	BMS	BMS	Position Verification - Fully Closed	Manufacturer Furnished / Contractor Installed				
ZSO - 4 1 1 0	ZSO - 4 2 1 0	ZSO - 4 3 1 0	Position Switch	Natural Gas	Position Verification	Position Verification	FSV-410	---	Open	DI	120 V	BMS	BMS	Position Verification - Fully Open	Manufacturer Furnished / Contractor Installed				
ZSO - 4 1 1 1	ZSO - 4 2 1 1	ZSO - 4 3 1 1	Position Switch	Natural Gas	Position Verification	Position Verification	FSV-411	---	Open	DI	120 V	BMS	BMS	Position Verification - Fully Open	Manufacturer Furnished / Contractor Installed				
ZSO - 4 1 1 2	ZSO - 4 2 1 2	ZSO - 4 3 1 2	Position Switch	Natural Gas	Position Verification	Position Verification	FSV-412	---	Open	DI	120 V	BMS	BMS	Position Verification - Fully Open	Manufacturer Furnished / Contractor Installed				
ZT - 4 1 0 8	ZT - 4 2 0 8	ZT - 4 3 0 8	Position Transmitter	Natural Gas	Position Feedback	Position Feedback	FCV-408	---	0 - 100 %	AI	4 20 mA DC	CCS	CCS	Position Indication %	Manufacturer Furnished / Contractor Installed				
FCV - 5 1 0 1	FCV - 5 2 0 1	FCV - 5 3 0 1	Control Valve	Fuel Oil	Flow	Flow	Supply to Burner	3/4"	0 - 180 GPH	---	---	---	---	---	Manufacturer Furnished / Contractor Installed				
FE - 5 1 0 2	FE - 5 2 0 2	FE - 5 3 0 2	Flow Element, Positive Displacement	Fuel Oil	Flow	Flow	Supply to Burner	3/4"	18 - 180 GPH	AI	4 20 mA DC	CCS	CCS	Status - Flow	Manufacturer Furnished / Contractor Installed	Provide w/ FT - 5 x			