

LOCKWOOD®

TYPE G BOILER FEED SYSTEMS



ILLUSTRATED WITH OPTIONAL EQUIPMENT

BF - G
11 - 08

LOCKWOOD TYPE G - BOILER FEED

OVERVIEW

STANDARD FEATURES

Lockwood Type G boiler feed systems are offered as standard for boilers up to 600 HP and 200 PSIG pump pressures in simplex, duplex, and triplex configurations, Custom systems are also available.

Receivers are constructed of heavy steel plate with necessary reinforced tank connections, including two vents (one internally unrestrictable for added safety). Receivers are furnished with flat flanged heads for added strength and bolted to support legs for ease of removal. For general applications, receiver capacity is sized to allow approximately 1 gallon of gross capacity per boiler horsepower (smaller receivers may be utilized for high make-up water conditions; larger receivers are recommended for high condensate return conditions). Each system includes a gauge glass with protection rods and shut-off cocks, individual pump suction piping, and a make-up water feeder (internal mechanical type for systems rated thru 200 boiler HP; electrical solenoid type on larger systems). Pumps are selected for intermittent service unless otherwise requested.

TYPE G PUMPS

Type G pumps offer outstanding value and proven reliability. Pumps are vertical, multistaged, centrifugal design with stainless steel shaft and impellers, cast iron suction and discharge chambers, and are fitted with mechanical seals rated for 250OF. Type G pumps, being of the centrifugal design, have low wear characteristics and multi-staged offers high pump efficiency when compared to turbine type pumps. Vertical configuration requires minimal floor space and allows pump removal without disturbing suction and discharge piping. Type G pumps characteristically have low NPSH requirements, allowing higher feedwater temperatures (standard selections are based on 208". For higher temperatures consult factory). Motors are furnished with heavy duty ball bearings and are "non-overloading" throughout the pump performance curve.

ACCESSORIES/OPTIONS

- All Stainless-Steel Pump Construction
- TEFC/Explosion Proof Motors
- Magnetic Starters/Custom Panels
- H-0-A Switches
- Pilot Lights
- Control Circuit Transformers
- Electrical Alternators
- Level Alarm Switches
- Thermometers
- Pressure Gauges
- Internal Dispersion Tubes
- Steam Preheat Assemblies
- Pump Re-Circulation Orifices
- Corrosion Inhibitors (Magnesium Anode)
- Internal Tank Linings
- Galvanized Tanks
- ASME Code Tanks
- Tank Insulation



**VERTICAL CONFIGURATION
(OPTIONAL)**

LOCKWOOD TYPE G - BOILER FEED

SELECTION DATA

BOILER HP	PUMP GPM		PUMP DISCHARGE PRESSURE (PSIG)						TANK CAP. GALLONS	MAKE-UP VALVE
			25	75	100	125	150	200		
40	6	MODEL NO.	GC1	GC2	GC3	GC4	GC5	GC6	35	1/2" MECH.
		PUMP NO.	AG03	AG07	AG09	AG11	AG13	AG17		
		MOTOR HP	1/3	3/4	1	1-1/2	1-1/2	2		
60	9	MODEL NO.	GE1	GE2	GE3	GE4	GE5	GE6	60	1/2" MECH.
		PUMP NO.	AG03	AG08	AG11	AG13	AG17	AG21		
		MOTOR HP	1/3	1	1-1/2	1-1/2	2	3		
80	11	MODEL NO.	GF1	GF2	GF3	GF4	GF5	GF6	100	1/2" MECH.
		PUMP NO.	CG03	CG07	CG09	CG11	CG13	CG17		
		MOTOR HP	1/2	1-1/2	1-1/2	2	3	3		
100	14	MODEL NO.	GF7	GF8	GF9	GF10	GF11	GF12	100	1/2" MECH.
		PUMP NO.	CG03	CG07	CG09	CG12	CG15	CG19		
		MOTOR HP	1/2	1-1/2	1-1/2	2	3	3		
125	18	MODEL NO.	GF13	GF14	GF15	GF16	GF17	GF18	100	1/2" MECH.
		PUMP NO.	CG03	CG09	CG11	CG15	CG17	CG16		
		MOTOR HP	1/2	1-1/2	2	3	3	5		
150	21	MODEL NO.	GG1	GG2	GG3	GG4	GG5	GG6	180	3/4" MECH.
		PUMP NO.	EG03	EG06	EG09	EG11	EG13	EG16		
		MOTOR HP	1	2	3	5	5	5		
200	28	MODEL NO.	GG7	GG8	GG9	GG10	GG11	GG12	180	3/4" MECH.
		PUMP NO.	EG03	EG03	EG03	EG03	EG03	EG03		
		MOTOR HP	1	2	3	5	5	7-1/2		
250	35	MODEL NO.	GH1	GH2	GH3	GH4	GH5	GH6	250	3/4" ELECT.
		PUMP NO.	JG02-F	JG04-F	JG05-F	JG07-F	JG08-F	JG10-F		
		MOTOR HP	1-1/2	3	5	5	7-1/2	7-1/2		
300	42	MODEL NO.	GJ1	GJ2	GJ3	GJ4	GJ5	GJ6	350	3/4" ELECT.
		PUMP NO.	JG02-F	JG04-F	JG06-F	JG07-F	JG08-F	JG12-F		
		MOTOR HP	1-1/2	3	5	5	7-1/2	10		
350	48	MODEL NO.	GJ7	GJ8	GJ9	GJ10	GJ11	GJ12	350	3/4" ELECT.
		PUMP NO.	JG02-F	JG05-F	JG06-F	JG08-F	JG09-F	JG12-F		
		MOTOR HP	1-1/2	5	5	7-1/2	7-1/2	10		
400	56	MODEL NO.	GK1	GK1	GK1	GK1	GK1	GK1	500	1" ELECT.
		PUMP NO.	OG01-F	OG03-F	OG04-F	OG05-F	OG06-F	OG08-F		
		MOTOR HP	2	5	7-1/2	10	10	15		
500	70	MODEL NO.	GK7	GK8	GK9	GK10	GK11	GK12	500	1" ELECT.
		PUMP NO.	OG01-F	OG03-F	OG04-F	OG06-F	OG07-F	OG08-F		
		MOTOR HP	2	5	7-1/2	10	15	15		
600	83	MODEL NO.	GK13	GK14	GK15	GK16	GK17	GK18	500	1" ELECT.
		PUMP NO.	OG02-F	OG04-F	OG05-F	OG06-F	OG07-F	OG09-F		
		MOTOR HP	5	6	7	8	9	10		

BOILER FEED SYSTEMS

DESIGN SELECTION

SIMPLEX: one pump system to serve one boiler.

DUPLEX: two pump system to serve one boiler (with one stand-by); or two boilers (with one pump per boiler).
If system is to serve two boilers select pumps for individual boiler size, and select tank and make-up valve for a total load.

TRIPLEX: three pump system to serve two boilers (with one stand-by pump); or three boilers (with one pump per boiler). Select pumps for individual boiler size, and select tank and make-up valve for boiler

HOW TO ORDER

QTY. 1 -Model **GC-5** **LOCKWOOD** **DUPLEXSYSTEM:** **AG13** **460/3/6** **ODP** **WITH** _____

MODEL NO. _____

SPECIFY simplex/duplex/triplex/etc. _____

PUMP MODEL NO. _____

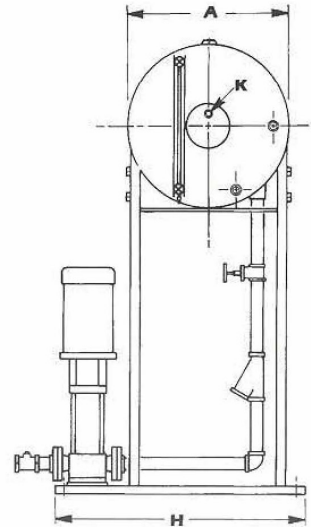
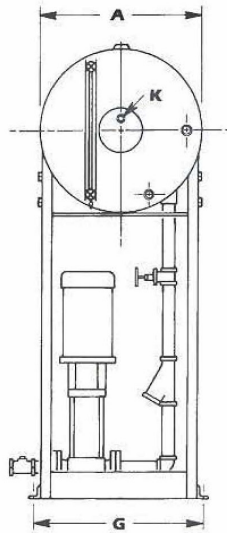
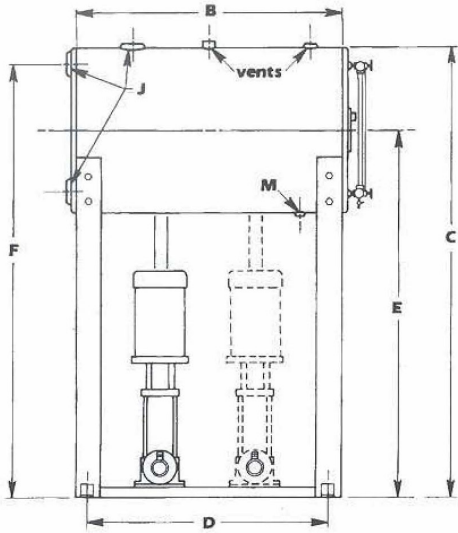
VOLTAGE AND PHASE _____

MOTOR ENCLOSURE _____

OPTIONS/ACCESSORIES _____

LOCKWOOD TYPE G - BOILER FEED

RECEIVER DIMENSIONS

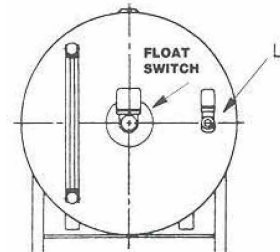


ALTERNATE CONFIGURATION

Used when standard configuration restricts location of pump(s)

APPROXIMATE DIMENSIONS IN INCHES

RECEIVER CAPACITY	A	B	C	D	E	F	G	H	J	K	L	M	VENT
35 GAL	18	32	41	30	32	38	19	30	2	1/2		1	1 1/4
60 GAL	22	36	59	32	48	56	23	34	2 1/2	1/2		1 1/4	1 1/4
100 GAL	26	42	73	38	60	70	28	38	3	1/2		1 1/4	1 1/2
180 GAL	30	60	75	56	60	71	29	40	4	3/4		1 1/2	2
250 GAL	36	60	78	56	60	74	35	46	4		3/4	1 1/2	2 1/2
350 GAL	42	60	81	56	60	77	41	50	4		3/4	1 1/2	3
500 GAL	42	84	81	80	60	77	41	50	4		1	1 1/2	3



ELECTRIC SOLENOID MAKE-UP VALVE ASSEMBLY

SPECIFICATIONS

Furnish and install where shown on plans, one (1) model _____ (Simplex) (duplex) (triplex) packaged boiler feed system as manufactured by Lockwood Products, Inc (Atlanta, Georgia). The system shall be designed to deliver feedwater to _____ (number), _____ horsepower boiler(s) operating at _____ PSIG, furnish _____ gallon receiver heavy steel plate with flat flanged heads (not flat heads), bolted leg configuration, and necessary threaded pipe connections (including two vents, one internally unrestricted). Receiver shall be mounted with adequate height to prevent pump cavitation when handling 200°F. Water

Tank accessories to include: (mechanical) (electrical) makeup water assembly, gauge glass assembly with shut-off cocks and protection rods, and individual pump suction piping (each to include a shut off valve and strainer).

Furnish _____ (number) Type G Lockwood boiler feed pump(s), each having a capacity of _____ GPM of 200°F water at _____ PSIG. Pump(s) shall be of the vertical, centrifugal, multi-stage design of stainless steel fitted construction with stainless steel shaft and impellers. Each pump shall have a mechanical seal rated at 250°F. Pump(s) shall be removable from system with out disturbing action or discharge piping. Each pump shall be vertically mounted and coupled with Coupling to a _____ horsepower, 3500 RPM, _____ volt, _____ phase, 60 Hertz. (open drip-proof) (totally enclosed-fan cooled) motor, flange mounted to pump. Motor(s) shall be non-overloading throughout the pump performance curve. Stainless steel coupling guard shall be provided. Each pump shall include a discharge throttling valve.

All components of this system are to be provided by one manufacturer for single unit responsibility.

The specifications contained in this bulletin were effective at the time of publishing. Lockwood Products, Inc. reserves the right to discontinue products at any time or to change specifications or design without incurring any obligation.