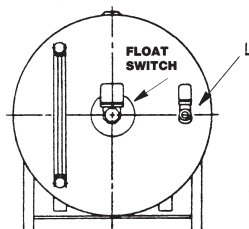


ALTERNATE CONFIGURATION
Used when standard configuration restricts location of pump(s)

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	11/4
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 of heavy steel plate with flat flanged heads (not flat heads), bolted leg configuration, and necessary threaded pipe connections (including two vents, one internally unrestrictable). Receiver shall be mounted with adequate height to prevent pump cavitation when handling 200 °F. water.

Tank accessories to include: (mechanical) (electrical) make-up 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).

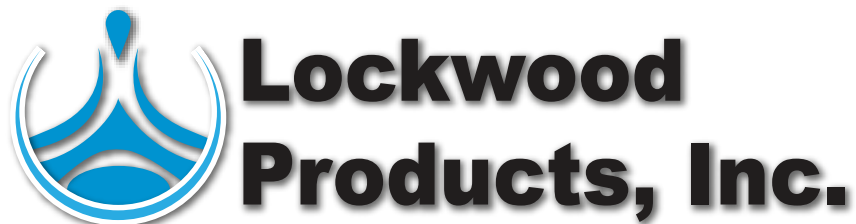
Furnish _____ (number) Type G Lockwood boiler feed pump(s), each having a capacity of _____ GPM of 200°F. water at _____ PSIG. Pump(s) shall be of the vertical, centrifugal, multi-stage design of stainless steel fitted construction with stainless steel shaft and impellers. Each pump shall have a mechanical seal rated at 250°F. Pump(s) shall be removable from system without disturbing suction 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 through out the pump performance curve. Stainless steel coupling guards 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.



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TYPE G BOILER FEED SYSTEMS



75 Years
1938 - 2013

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 250°F. 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 200°F. 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-O-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)

SELECTION CHART
TYPE G LOCKWOOD BOILER FEED SYSTEM

BOILER HP	PUMP GPM	MODEL NO. PUMP NO. MOTOR HP	PUMP DISCHARGE PRESSURE (PSIG)						TANK CAP. (GALLONS)	MAKE-UP VALVE
			25	75	100	125	150	200		
40	6	MODEL NO. PUMP NO. MOTOR HP	GC1 AG03 1/3	GC2 AG07 3/4	GC3 AG09 1	GC4 AG11 1-1/2	GC5 AG13 1-1/2	GC6 AG17 2	35	1/2" MECH.
60	9	MODEL NO. PUMP NO. MOTOR HP	GE1 AG03 1/3	GE2 AG08 1	GE3 AG11 1-1/2	GE4 AG13 1-1/2	GE5 AG17 2	GE6 AG21 3	60	1/2" MECH.
80	11	MODEL NO. PUMP NO. MOTOR HP	GF1 CG03 1/2	GF2 CG07 1-1/2	GF3 CG09 1-1/2	GF4 CG11 2	GF5 CG13 3	GF6 CG17 3	100	1/2" MECH.
100	14	MODEL NO. PUMP NO. MOTOR HP	GF7 CG03 1/2	GF8 CG07 1-1/2	GF9 CG09 1-1/2	GF10 CG12 2	GF11 CG15 3	GF12 CG19 3	100	1/2" MECH.
125	18	MODEL NO. PUMP NO. MOTOR HP	GF13 CG03 1/2	GF14 CG09 1-1/2	GF15 CG11 2	GF16 CG15 3	GF17 CG17 3	GF18 EG16 5	100	1/2" MECH.
150	21	MODEL NO. PUMP NO. MOTOR HP	GG1 EG03 1	GG2 EG06 2	GG3 EG09 3	GG4 EG11 5	GG5 EG13 5	GG6 EG16 5	180	3/4" MECH.
200	28	MODEL NO. PUMP NO. MOTOR HP	GG7 EG03 1	GG8 EG07 2	GG9 EG10 3	GG10 EG12 5	GG11 EG14 5	GG12 EG18 7-1/2	180	3/4" MECH.
250	35	MODEL NO. PUMP NO. MOTOR HP	GH1 JG02-F 1-1/2	GH2 JG04-F 3	GH3 JG05-F 5	GH4 JG07-F 5	GH5 JG08-F 7-1/2	GH6 JG10-F 7-1/2	250	3/4" ELECT.
300	42	MODEL NO. PUMP NO. MOTOR HP	GJ1 JG02-F 1-1/2	GJ2 JG04-F 3	GJ3 JG06-F 5	GJ4 JG07-F 5	GJ5 JG08-F 7-1/2	GJ6 JG12-F 10	350	3/4" ELECT.
350	48	MODEL NO. PUMP NO. MOTOR HP	GJ7 JG02-F 1-1/2	GJ8 JG05-F 5	GJ9 JG06-F 5	GJ10 JG08-F 7-1/2	GJ11 JG09-F 7-1/2	GJ12 JG12-F 10	350	3/4" ELECT.
400	56	MODEL NO. PUMP NO. MOTOR HP	GK1 OG01-F 2	GK2 OG03-F 5	GK3 OG04-F 7-1/2	GK4 OG05-F 10	GK5 OG06-F 10	GK6 OG08-F 15	500	1" ELECT.
500	70	MODEL NO. PUMP NO. MOTOR HP	GK7 OG02-F 5	GK8 OG03-F 5	GK9 OG04-F 7-1/2	GK10 OG06-F 10	GK11 OG07-F 15	GK12 OG08-F 15	500	1" ELECT.
600	83	MODEL NO. PUMP NO. MOTOR HP	GK13 OG02-F 5	GK14 OG04-F 7-1/2	GK15 OG05-F 10	GK16 OG06-F 10	GK17 OG07-F 15	GK18 OG09-F 15	500	1" ELECT.

DESIGN SELECTION

- SIMPLEX:

one pump system to serve one boiler.
- DUPLEX:

two pump system to serve one boiler (with one stand-by pump); 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 total boiler 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 total boiler load.

HOW TO ORDER (typical example)

1 -MODEL GC5 LOCKWOOD DUPLEXSYSTEM: AG13 460/3/60 ODP WITH

QTY. MODEL NO. SPECIFY simplex/duplex/triplex/etc. PUMP MODEL NO. VOLTAGE AND PHASE MOTOR ENCLOSURE OPTIONS/ACCESSORIES