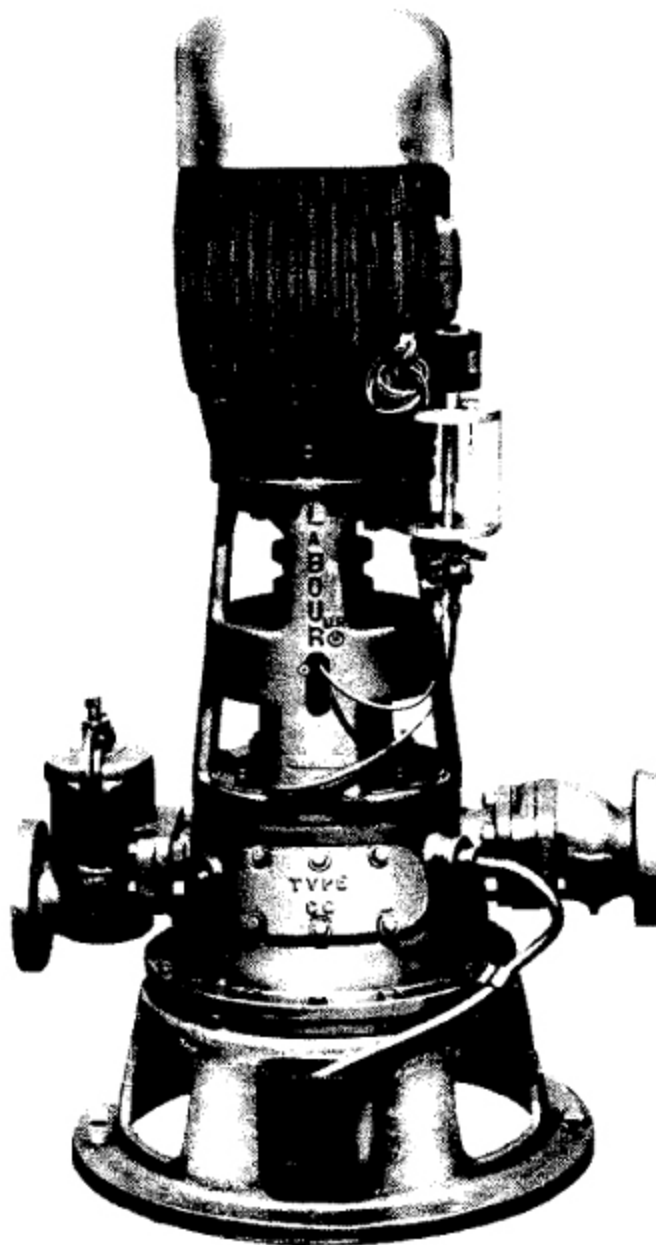
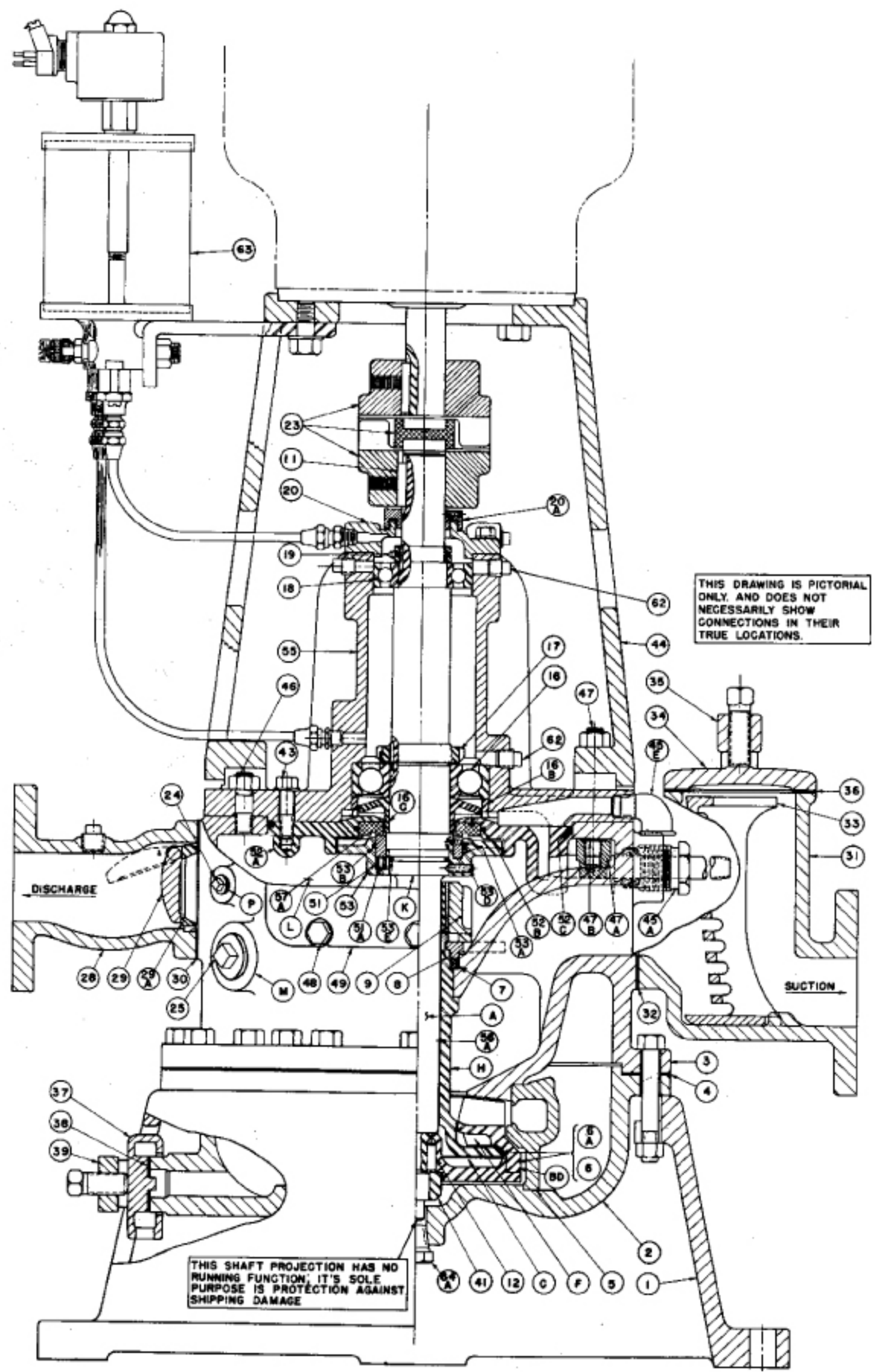


Peerless Pump Company  

INSTALLATION, OPERATION, AND MAINTENANCE MANUAL
Labour Vertical Self-Primer Series G



Model CG - SECTIONAL DRAWING

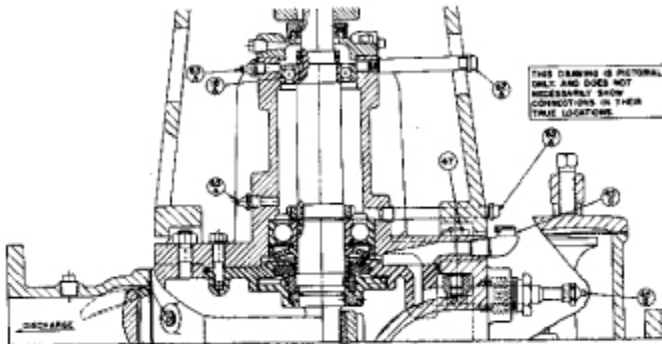


THIS DRAWING IS PICTORIAL ONLY, AND DOES NOT NECESSARILY SHOW CONNECTIONS IN THEIR TRUE LOCATIONS.

THIS SHAFT PROJECTION HAS NO RUNNING FUNCTION, IT'S SOLE PURPOSE IS PROTECTION AGAINST SHIPPING DAMAGE

Model BG SECTIONAL DRAWING

OPERATING INSTRUCTIONS



DESCRIPTION

The TYPE G is a vertical, self-priming centrifugal pump with multiple discharge throats. When the pump is operating it employs an exclusive kinetic seal that prevents escape of the liquid being pumped. No stuffing box or other sealing device is required. Provisions for shutdown are explained under "INSTALLATION AND OPERATION." An assembly of parts is shown in "SECTIONAL DRAWINGS - Model CG and Model BG." (NOTE: The impeller assembly is demountable from the drive shaft, but is made in one inseparable unit.) The Model CG pump is oil lubricated; Model BG is grease lubricated.

PARTS LIST

Piece No.	Name of Part
1.	Base
2.	Lower Pump Casing
3.	Upper Pump Casing
4.	Casing Gasket
5.	Impeller Housing
*6.	Impeller and Seal Assembly (Type CG)
*6A.	Impeller and Seal Assembly (Type BG)
7.	Sleeve Seal Gasket
8.	Shaft Sleeve Lockwasher
9.	Shaft Sleeve Nut
11.	Shaft Coupling Key
12.	Impeller Drive Key
16.	Lower Bearing
16B.	Spacer
16C.	Lower Bearing Slinger
17.	Lower Bearing Locknut and Washer
*18.	Upper Bearing (Type CG)
*18A.	Upper Bearing (Type BG)
19.	Upper Bearing Locknuts
20.	Upper Bearing Cover
20A.	Upper Bearing Slinger
23.	Cushion Spline Coupling
24.	1/4" Alloy Pipe Plug
*25.	1" Alloy Pipe Plug (Type CG Only)
28.	Backflow Retarder Housing
29.	Backflow Retarder Disc
29A.	Backflow Retarder Seat
30.	Backflow Retarder Gasket
31.	Strainer Housing
32.	Strainer Housing Gasket
33.	Strainer
34.	Strainer Cover
35.	Strainer Cover Clamp
36.	Strainer Cover Gasket
37.	Drain Cover
38.	Drain Cover Gasket
39.	Drain Cover Clamp
41.	Drive and Impeller Shaft Nut
43.	Cover Plate Cap Screws
44.	Motor Bracket
45A.	Vent and Lubrication Drain
*45B.	Grease Inlet (Type BG)
*45C.	Grease Outlet (Type "BG")
*45E.	Vent Elbow (Type CG)
46.	Bearing Bracket Stud
47.	Motor Bracket Stud
47A.	Cap Nut
47B.	Cap Nut Gasket
48.	Hand Hole Cover Cap Screws
49.	Hand Hole Cover Assembly with Gasket
*51.	Bearing Seal { (9 reqd. for type "CG") Springs { (6 reqd. for type "BG")
51A.	Spring Guide { (9 reqd. for type "CG") Pins { (6 reqd. for type "BG")
52A.	Lower Bearing Cover Plate
52B.	Cover Plate "O" Ring
52C.	Cover Plate "O" Ring
53.	Bearing Seal Housing and Pressure Disc
53A.	Bearing Seal Ring and Pin
53B.	Bearing Seal Ring Gasket
53D.	Bearing Seal Drive Screws
53E.	Shaft "O" Ring
55.	Bearing Bracket
56A.	Drive Shaft and Impeller Shaft
57A.	Bearing Seal Disc
*62.	1/4" Pipe Plugs (Type CG)
*62A.	Upper and Lower Grease Outlets (Type "BG")
*63.	Lubricator and Fittings (Type "CG")
*63A.	Zerk Grease Inlets (Type BG)
64A.	Alloy Pipe Plug

*PARTS WHICH ARE NOT IDENTICAL AND INTERCHANGEABLE BETWEEN TYPE "CG" AND TYPE "BG" SERIES 59

INSTALLATION AND OPERATION

Locate pump as near as possible to and above suction source. Suction pipe should be no larger than suction flange. Each pump should have its individual suction pipe. Suction line manifolding will often cause priming problems. CAUTION: BEFORE STARTING THE PUMP IT MUST BE FILLED WITH ITS INITIAL CHARGE OF PRIMING LIQUID. The suction opening in the Strainer Housing No. 31 is below the opening in the Upper Casing No. 3. Remove Strainer Cover No. 34 and direct or funnel priming liquid into opening of Upper Casing until it completely fills the pump and starts to spill out the suction opening of Upper Casing. Discharge piping can be manifolded, but each pump MUST be isolated by a check valve that has an air release line back to the sump, or to an alternate disposal point. Model CG pumps should have a drain line or hose run from the outlet at Pipe Plug No. 25 to suction sump as a safety measure, to avoid flooding or contamination of Bearing Bracket Assembly. The suction line MUST be free of air leaks and drain away from the pump freely and completely without obstruction. No part of the suction line should be higher than the pump suction opening. If during intermittent service it is desirable to maintain liquid in the discharge line (or where more than one pump is connected to the same discharge line), the special LaBour check-valve assembly must be installed. If a filled discharge line is not required, the standard LaBour back-flow retarder valve will permit slow drainage of the discharge line back through the pump. Suction line valves are not recommended. If during shutdown it is desirable to drain a discharge line employing a check valve, this may be accomplished by removing the pipe plug located on bottom of the check-valve assembly. Provision also is made for attaching a small air vent line to the LaBour check-valve assembly to permit free release of air during the priming cycle. This vent line can be returned to the source of supply when feasible, or alternatively valved and closed after priming is achieved.

