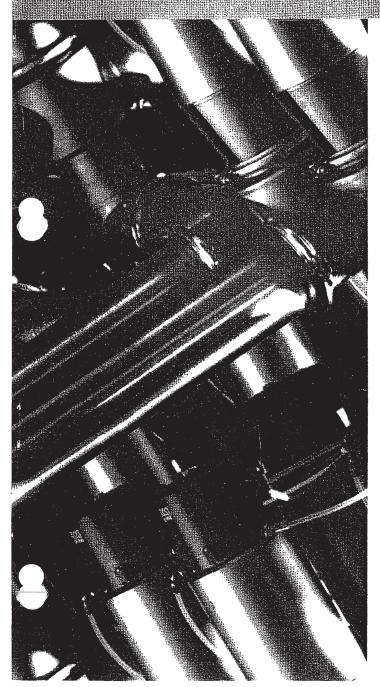


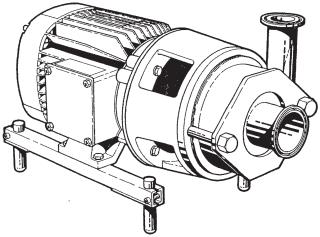




INSTRUCTION MANUAL

GLC-0 CENTRIFUCAL PUMP





IM 70344-US3 S 9709

G&H RESERVE THE RIGHT TO MINOR CHANGES IN DESIGN AND FUNCTION

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Safety

All warnings in the manual are summarized on this page.

2. Safety Precautions

Installation:







Operation:







Maintenance:







severe personal injury or damage to the pump are avoided.

Pay special attention to the instructions below so that

- : Always observe the technical data (see page 18).
- The pump **must** be electrically connected by authorized personnel (see the motor instructions).
 - Always remove the impeller before checking the direction of rotation.

1

- **Never** start the pump if the impeller is fitted and the pump casing removed.
- Always observe the technical data (see page 18).
- Never touch the pump or the pipelines when pumping hot liquids or when sterilizing.
- Never run the pump with both the suction side and the pressure side blocked.
- : Always handle lye and acid with great care.

- : Always observe the technical data (see page 18).
- Always disconnect the power supply when the pump is serviced.
- : The pump must **never** be hot when serviced.
 - The pump and the pipelines must **never** be pressurized when the pump is serviced.



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Read the instructions carefully and pay special attention to the warnings!

2. Installation

1



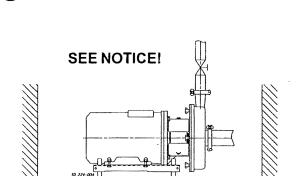
Always observe the technical data (see page 18).



The pump must be electrically connected by authorized personnel (see the motor instructions).

NOTE!

G&H cannot be held responsible for incorrect installation.



Always check the pump before operation.

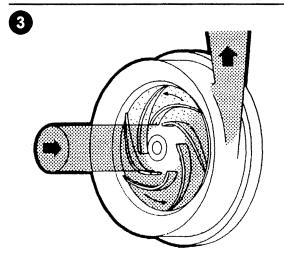
NOTICE: Please notice that the drawings below only

- See pre-use check on page 6.

show the principle.

2

Ensure that there is sufficient clearance around the pump (min. 2 ft).



Ensure that the flow direction is correct.



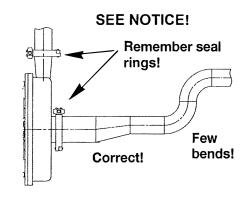
Risk of damage!

Avoid stressing the pump.

- Pay special attention to:
- Vibrations.
- Thermal expansion of the tubes.
- Excessive welding.

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- Overloading of the pipelines.



- Ensure that the pipelines are routed correctly. 1.
- 2. Ensure that the connections are tight.

7

Read the instructions carefully and pay special attention to the warnings!

1. Operation/Control

1

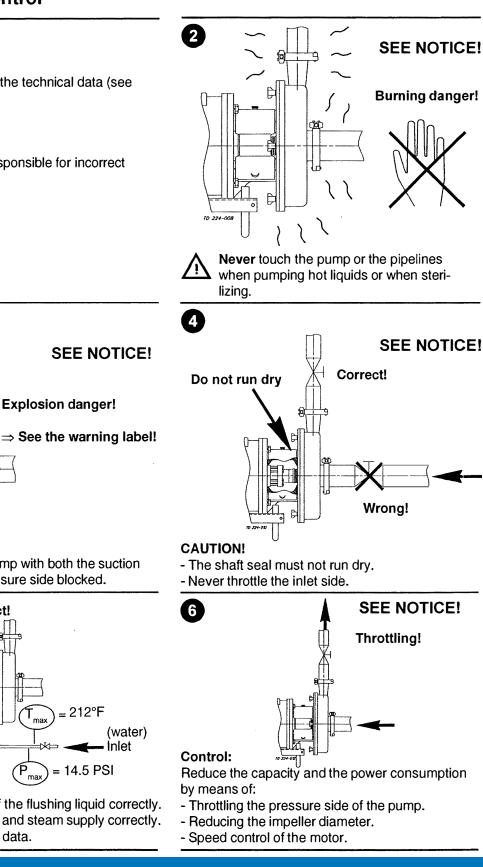
Always observe the technical data (see page 18).

NOTE!

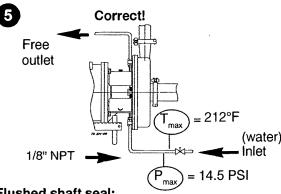
3

G&H cannot be held responsible for incorrect operation/control.

The pump is fitted with a warning label indicating correct throttling. **NOTICE:** Please notice that the drawings below only show the principle.



Never run the pump with both the suction side and the pressure side blocked.



Flushed shaft seal:

Ş

- Connect the inlet of the flushing liquid correctly. 1.
- Regulate the water and steam supply correctly. 2.
- 3. Observe the steam data.

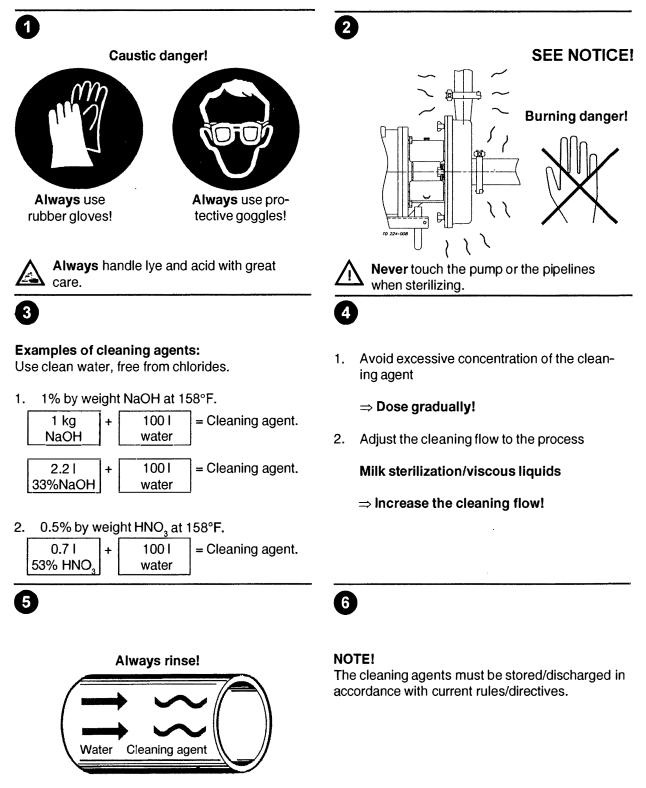
CSI

Operation

The pump is designed for cleaning in place (CIP). CIP = Cleaning In Place. Read the instructions carefully and pay special attention to the warnings!

3. Recommended Cleaning

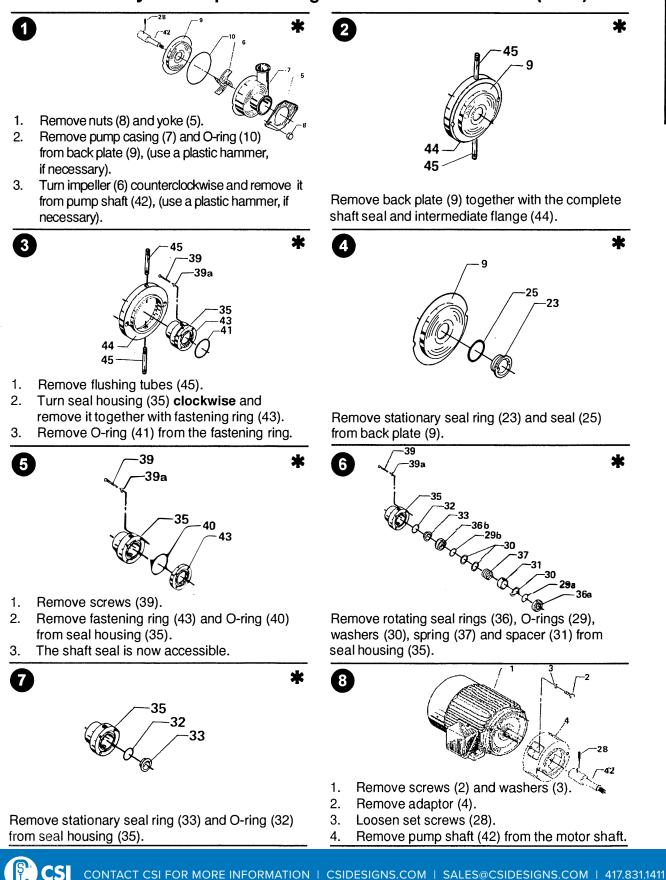
NaOH = Caustic Soda. $HNO_3 = Nitric acid.$ **NOTICE**: Please notice that the drawing below only show the principle.





Handle scrap correctly.

3. Disassembly of Pump/Removing the Flushed Shaft Seal (1-7*)



13

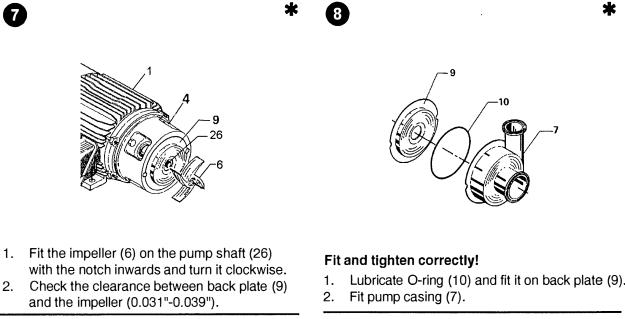
Maintenance

15

Read the instructions carefully. The items refer to the drawings and the parts list on pages 19-24.

Lubricate the rubber seals before fitting them.

4. Assembly of Pump/Fitting the Single Shaft Seal (3-9*)



5 8

Fit yoke (5) and nuts (8).

9

Lubricate O-ring (10) and fit it on back plate (9).

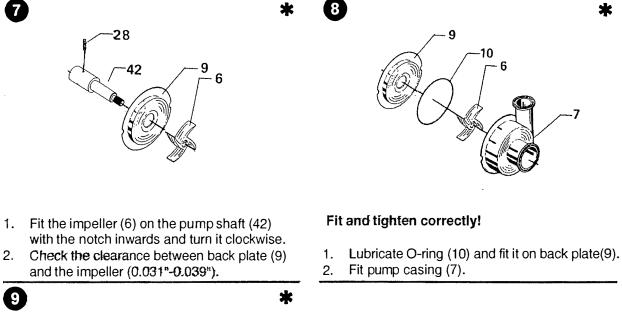


Read the instructions carefully. The items refer to the drawings and the parts list on

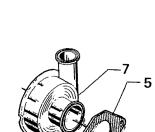
pages 19-24.

Lubricate the rubber seals before fitting them. Assembly mandrel: For assembly of flushed shaft seal.

5. Assembly of Pump/Fitting the Flushed Shaft Seal (3-9*)



- 1.



Fit yoke (5) and nuts (8).

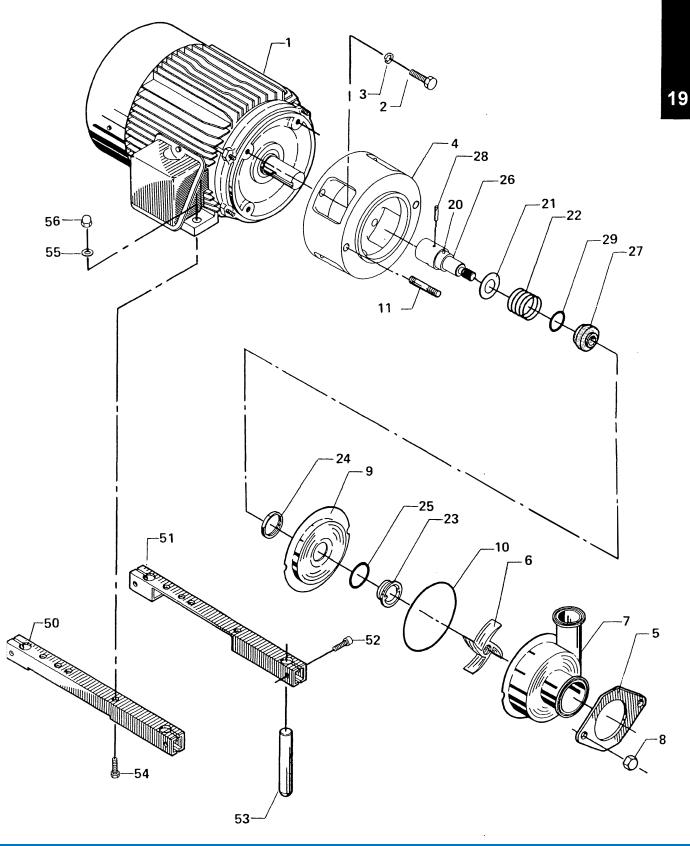


Exploded View

This page shows an exploded drawing of GHC-0 with single shaft seal.

The drawing includes all items of the pump. They are identical with the items in the Spare Parts List.

GHC-0, Single Shaft Seal





Drawing/Parts List

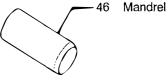
The drawing and the parts list include all items of the pump.

The items are identical with the items in the Spare Parts List.

When ordering spare parts, please use the Spare Parts List!

Parts List

Pos.	Qty.	Description
1	1	Motor
2	4	Screw
3	4	Spring washer
4	1	Adaptor
5	1	Yoke
6	1	Impeller
7	1	Pump casing
8	2	Nut
9	1	Black plate
10∆	1	O-ring
11	2	Stud bolt
20 O	1	Connex pin
21 O	1	Thrower
22 Δ O	1	Spring
23 Δ	1	Stationary seal ring
24 O	1	Nut
25∆	1	Seal
26 O	1	Pump shaft
27 Δ O	1	Rotating seal ring
28	3	Set screws
29 ∆O		O-ring
29a∆⊡	1	O-ring, front
29b∆□	1	O-ring, back
30 Δ	3	Washer
31	1	Spacer
32 ∆ □	1	O-ring
33 ∆ □	1	Stationary seal ring
35 🗆	1	Seal housing
36a∆⊡	1	Rotating seal ring, front
36b∆□	1	Rotating seal ring, back
37 Δ 🗆	1	Spring
39 🗆	4	Srew
39a 🗆	4	Washer
40 A 🗆	1	O-ring
41 Δ 🖸	1	O-ring
42 🖸	1	Pump shaft
43 🗆	1	Fastening ring
44	1	Intermidiate flange
45 🗆	2	Flushing tube
46	1	Assembly mandrel
50	1	Support Bar right
51	1	Support Bar left
52	4	Screw
53	4	Leg
55 54	4	Screw
55	4	Lock washer
55 56	4	Cap nut
00	-	



- Δ: Service kit EPDM, NBR, FPM, PTFE (See Spare Parts List)
- O: Single shaft seal only
- : Flushed shaft seal only

