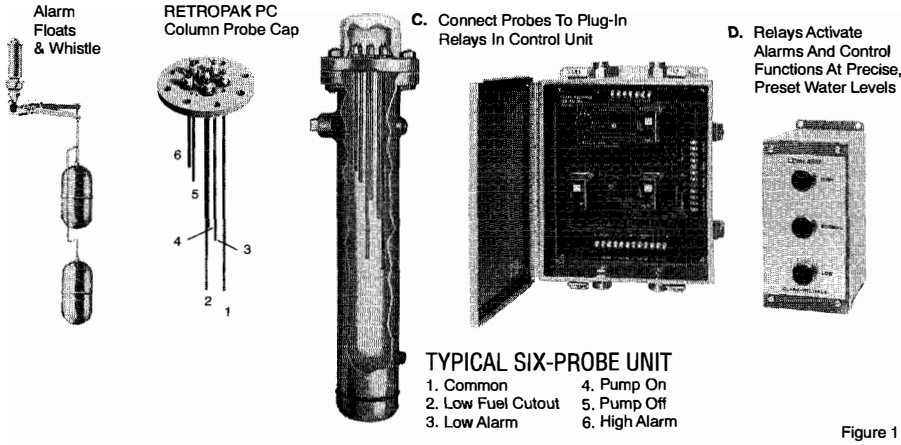
Clark·Reliance

RETROPAK PC™ WATER COLUMN CONVERSION KIT

REPLACES COLUMN ALARM FLOATS WITH ELECTRIC CONTROLS

RETROPAK PC™ CONVERTED COLUMNS PROVIDE 1 TO 6 PROBE-ACTUATED ALARM AND CONTROL FUNCTIONS



TYPICAL SIX-PROBE UNIT

1. Common
2. Low Fuel Cutout
3. Low Alarm
4. Pump On
5. Pump Off
6. High Alarm

Figure 1

Audible/Visual Alarms Probes designated as alarm actuators can be wired to relays controlling either audible or visual Clark-Reliance alarms. Shown (Fig. 1) is the three-light visual indicator. Protruding lamps allow 180° visibility. Other relay switches may be wired to control user equipment.

FOR IMPROVED BOILER SAFETY, RETROPAK PC™ ALLOWS ALL WATER COLUMNS TO EMPLOY ELECTRIC PROBE CONTROLS FOR ALARMS, FUEL CUTOUT, PUMPS AND OTHER EQUIPMENT

Easily replace present high/low alarm floats with reliable on/off electric controls that will activate local or remote alarms and equipment. Designed for water columns, drums or vessels in systems to 3000 psi.

RETROPAK PC allows fast and easy conversion of Clark-Reliance and all other float-type water columns. Retropak kits may also be installed directly onto tank/vessel flange nozzles. Highly dependable, converted installations will be unaffected by changing pressure, temperature or water conditions. Retropak PC allows alarms and equipment being controlled to be located at whatever distance from the column is required.

The system is comprised of (1) the Retropak Cap which contains the number of probes required, (2) the Retropak Control Unit which houses actuating relays to activate alarms, pump circuits, or fuel cutouts.

Retropak Cap The Cap is a flange that contains up to six probes. The probes are installed at user-specified lengths for precise actuation of electric control signals at desired water levels. The Cap replaces the existing water column top flange.

Figure 2

Probes Clark-Reliance patented Probes are easily installed and removed, and operate durably in high pressure boiler applications.

Control Unit The Control Unit (FM Approved) contains plug-in, electronic relays that perform the on/off functions for alarms and equipment. The Control Unit supplies low voltage (12 VAC) to Probes. Integral LED indicators verify relay status. For more information, see Catalog Section AB3.1 (Water Column Safety Systems).

TYPICAL RETROPAK PC RELAY, SINGLE LEVEL SERVICE

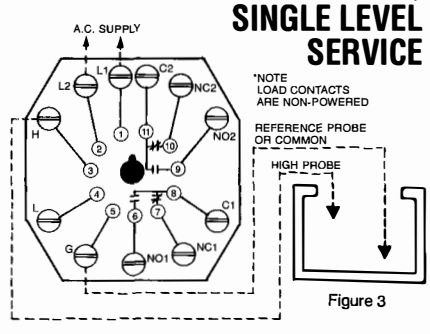


Figure 3

Clark-Reliance electronic relays are wired for *Direct Mode Single Service*: rising water activates relay, falling water de-activates relay. Optional relays are wired for *Inverse Mode Single Service*: AC power supply activates relay, rising water de-activates relay, falling water re-activates relay. Integral LED shows relay on/off status. (Inverse mode relays are designed for failsafe operation on fuel cutout circuits.)

RETROPAK PC™ SPECIFICATION DATA

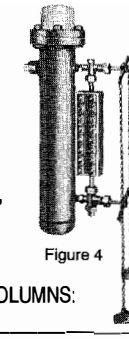


Figure 4

Complete This Form.
Mail Copy To:
Clark-Reliance, 16633
Foltz Industrial Parkway,
Strongsville, OH 44136.
Or Fax: 216-238-8828

FOR CLARK-RELIANCE COLUMNS:
Model No. _____
Drawing No. If Available _____
(Proceed To "I" Below)

FOR OTHER BRAND COLUMNS EMPLOYING STANDARD FLANGE:
Size _____ Face Type _____
Rating _____ Design PSI _____
(Proceed To "I" Below)

FOR ALL OTHERS, PLEASE PROVIDE:

A. Design Pressure _____
B. Column Manufacturer _____
C. Column Model No. _____
D. Top Flange O.D. _____
E. Top Flange Thickness _____
F. Top Flange Face Type _____
G. Size Of Flange Bolts _____
H. Bolt Circle Diameter _____
I. Number Of Bolts _____
J. Number Of Probes And Functions (Max. 6)
2. _____
1
3. _____
4. _____
5. _____
6. _____

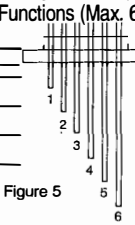


Figure 5

MAIL QUOTATION TO:
Name _____
Title _____
Company _____
Street _____
City _____
State _____ Zip _____
Telephone (____) _____
Fax (____) _____

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