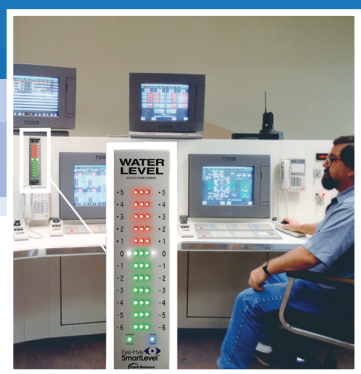
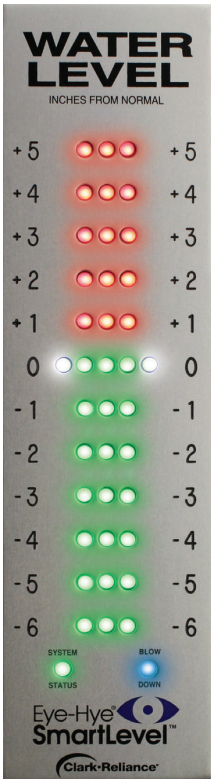
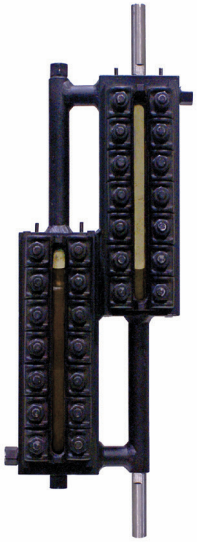
Reliance®

A Product of Clark-Reliance

Boiler Instrumentation





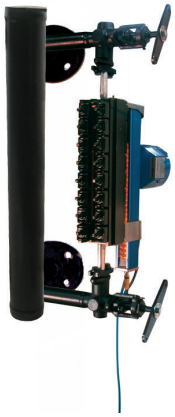


Clark-Reliance®

Instrumentation and Controls Group

Water Columns

Steel Water Column with Probes and Flat Glass Gage



Direct-to-Drum Assembly with Flat Glass Gage and DuraStar Illuminator

Direct-to-Drum Assembly with Simpliport® 180 Water Gage System

- **Water Columns to 3000 PSI (200 Bar)**
  - High & Low Level Alarms
  - Low Water Cutouts
  - Conductivity Probes
  - Retropak Conversion Kits [Float to Probe – up to 900 PSI (60 Bar)]
- **Direct-to-Drum Assemblies**

Water Gage Glasses

Prismatic (Reflex) Water Gage

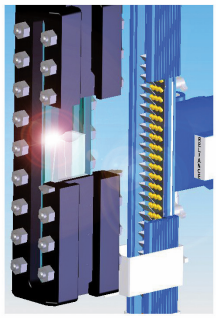
Simpliport 180˚ Water Gage System with LED illuminator

"I've never seen a gage that you can see so well from extreme angles. With this sight glass, I'm standing anywhere within 180° of it, the level is visible."

– Bob Martin,
Maintenance, Municipal Power Plant

Flat Glass Water Gage

Flat Glass Water Gage with DuraStar Illuminator



- **New Simpliport® 180 Water Gage System with LED illuminator and Wide Angle Viewing Hood**
- **Water Gage Glasses**
  - Prismatic (Reflex Type) to 350 PSI (23 Bar)
  - Flat Glass (Transparent) to 2000 PSI (133 Bar)
  - Simpliport (Bi-Color) to 3000 PSI (200 Bar)
- **Isolation Valves (Bronze or Steel)**
- **Illuminators**
  - High Contrast Superior Visibility Day or Night
  - Maintenance Free
  - Field Upgradeable
  - Long-Life – 100,000 hour
  - No Heat Generation
  - Continuous or "On-Demand" Level Indication
  - Amber LEDs for high intensity "star-like" image for the water line
  - Longest Field-of-View

Eye-Hye® SmartLevel™
Boiler Level Indication System

Steam You Can Depend On, 24/7

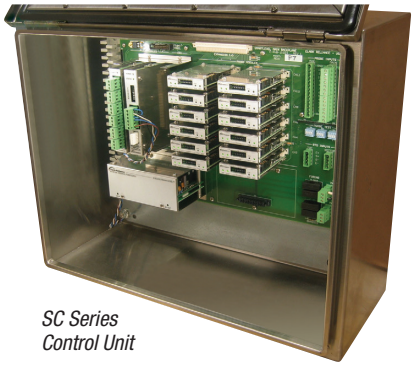
Columns and Probes

Electrolev Columns

FSB Type Probe for Pressures up to 3000 PSI (200 Bar)

- **Accurate, Dependable, Reliable Water Level Indication**
  - New Intelligence "Senses the Sensors" to notify operators when probes need cleaning
  - Eliminates the need for frequent blowdowns
  - Reduces operator exposure to hazardous areas
  - Increases probe life
  - Pressures to 3000 PSI (200 Bar)

Control Units



SC Series Control Unit

- Blowdown Indication
- Alarm & Trip Switches
- Trusted Level Indication
- Maximize Level Accuracy

- **Operation and Performance**
  - Eye-Hye Systems are manufactured to meet ASME boiler code (Section 1) requirements
  - Over 9000 in operation worldwide
  - 50 years of unmatched safety

"We are very satisfied with Clark-Reliance products. They work well, last long and have great support."

– George Machuta,
Maintenance Supervisor

Local and Remote Indicators

SIS Indicator in Control Room

- Blowdown Indication
- Highlighted Normal Water Level for Quick Reference

Remote indicators can be located up to one mile from the boiler

Low Water Cutouts (Primary or Auxiliary)

Float Type
Levalarm® GOLD

- 3 models up to 1000 PSI (69 Bar)
- Tri-Magnet Switch eliminates effects from vibration
- Dependable vertical float action

Probe Type
EA101 Series Levalarm®

- Conductivity Probe Models to 1800 PSI (120 Bar)
- Reliance® relay control required

TWIP®

TWIP Column

- **TWIP® (Turbine Water Induction Protection) – Level Switches**
  - Heater Application
  - Drip Less
  - Deaerators
  - Condensate Tanks

SureStart™ Operator Assistance Program:

Our Expert. Your Plant. All Day. Free.

We'll help assure that your next boiler project gets up and running smoothly...and stays that way.

Qualified purchasers of boiler control systems made by us are entitled to an all-day on-site review by a direct factory expert from Clark-Reliance.

We'll Verify the Installation

Any discrepancy between what we specified as proper installation and what we observe will be immediately reported to your operators, followed by a written report. Your new boiler level and control system will be verified to be in compliance with Section I of the ASME Code.

We'll Teach the Code to your O&M People

Understanding Section I of the ASME Code, PG - 60 is critical to the operation and maintenance of control instrumentation. We'll train your crew in the "why's" and "how's" of accepted standard practice.

Hands-On Training

Our expert will guide your people through each Clark device: operation, maintenance, and proper scheduling...it's all here.

Program Benefits

- Greatly reduced start-up issues
- Increased safety for plant and personnel
- More stable operations, less frequent and more predictable maintenance
- Maximum equipment life

Reliance Boiler Instrumentation

Designing and manufacturing boiler level control systems since 1884, Clark-Reliance has become the most recognized and trusted name in boiler-trim controls and operation. That position has been accomplished by the continued commitment to excellence in quality product performance and customer service These values are core competencies at Clark-Reliance.

From introducing the first alarm water column to the new Eye-Hye® SmartLevel™ Boiler Level Indication System, Clark-Reliance continues to lead the industry in boiler control safety, performance, and new product development. These innovations are also available to modernize your existing level control systems, and improve reliability.

Introduced conductivity probe technology to the Boiler Industry in 1959

Industry leader with Drum Level instrumentation specified by major contractors, OEM's and users

Complete line of products to 3000 PSI (200 Bar)

Over 125 years of manufacturing experience

Knowledge, Corporate Stability, Quality Service

Active Member of ABMA
LEADERSHIP FOR THE BOILER INDUSTRY

Complete product details available on our website:

- *Product Bulletins*
- *Instruction Manuals*
- *Helpful Maintenance Videos*

www.clark-reliance.com

Reliance®
A Product of Clark-Reliance

Leading the industry with the most complete line of innovative products and solutions.

Certifications

FM · c UL us · PED · SP · CE · ATEX

Clark-Reliance® designs and develops product specifications consistent with the customer's use for that product, and ensures that all products and services conform to their established quality specifications.

Instrumentation & Control

JERGUSON® JACOBY·TARBOX® Reliance®

Level Gages
Magnetic Level Indicators
Switches & Valves

Site Flow Indicators
Sight Windows
Eductors

Boiler Level Gages
Remote Level Indicators
Boiler Safety Instruments

Filtration & Purification

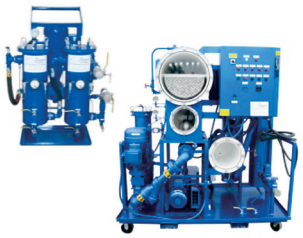
ANDERSON® Separator

Enervac™ INTERNATIONAL ULC

OIL FILTRATION SYSTEMS®

Gas Coalescing & Filtration
Steam Separators & Traps
Liquid Particle Filtration

Transformer Oil Purification
SF6 Equipment
Air Dryers



Vacuum Dehydrators
Varnish Removal Systems
Hi & Low Flow Filter Skids

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