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THE ELECTROLEV (PROBE) COLUMN

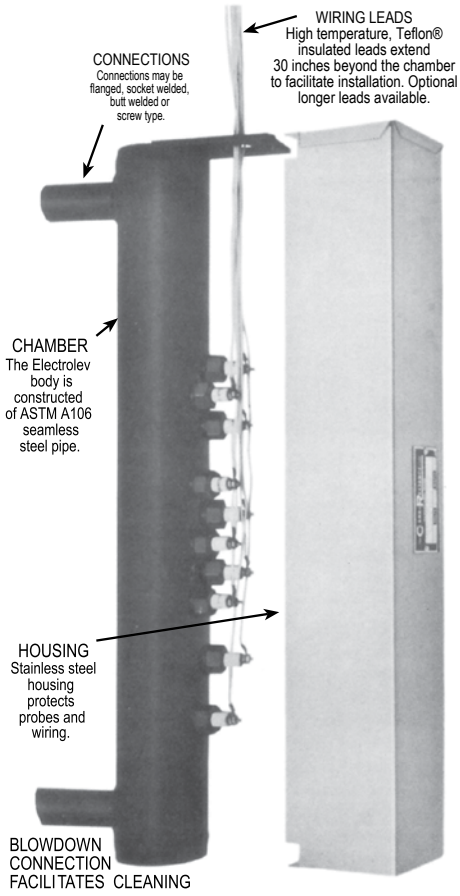


Figure 8
STANDARD ELECTROLEVS CONTAIN 10, 12 OR 20 PROBES

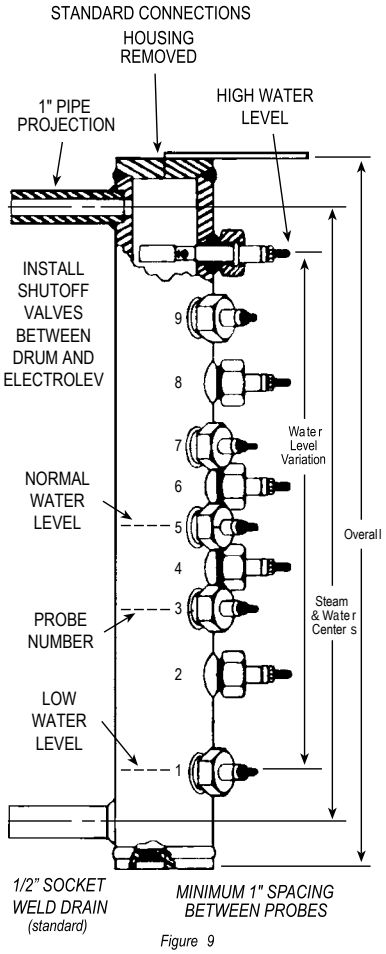


Figure 9
TYPICAL ARRANGEMENT AND DIMENSIONS FOR 10-PROBE ELECTROLEV

ITEMS TO CONSIDER WHEN SPECIFYING

- Vessel connection centers
- Probe locations – 1" (25mm) minimum centers
- Type of vessel connections
  - A) Flanged – size and type
  - B) Female socket-weld-size
  - C) Special drain connections
    - extended pipe (male) 1/2" or 3/4"
    - flange (size & type)
- Extended high temperature probe wires (30" extending from unit is standard)
- Integrally mounted (NEMA 4) weatherproof pre-wired junction box
- Flexpak insulation jacket designed for easy access to accommodate maintenance

OPTIONAL FLEXPAK® JACKET

For maximum system accuracy and personnel safety, the Electrolev should be insulated with the optional FLEXPAK jacket. The jacket provides a 2-inch thick insulation that is easily removed for routine inspections. The jacket is suitable for outdoor service and will withstand contact with surfaces as hot as 650˚F.



MODEL NUMBERS — **PROBES**

EL450-10, EL1000-10, EL1800-10, ELF3000-10, EZBZ-10, ESB3000-10	*10*
EL450-12, EL1000-12, EL1800-12, ELF3000-12, EZBZ-12, ESB3000-12	*12*
EL450-20, EL1000-20, EL1800-20, ELF3000-20, EZBZ-20, ESB3000-20	*20*

See Table A, to the right)

SPECIFICATION OPTIONS

- *Extra Electrolev Length Beyond 36"*
- *Flanged Steam & Water Connections*
- *Female Socket Weld Steam & Water Connections*
- *Special Drain Connection*
- *Electrode Lead Wire Longer Than 30"*
- *Models other than 10, 12, or 20 probes*

Contact your Clark-Reliance representative for additional specification information.

TABLE A ELECTROLEVS

Model Number	Max. System WSP PSIG	BarG	Kg/cm²	Max. Temp. ˚F	˚C	No. of Probes
EL450-10	450	31	31.6	456	(236)	10
EL450-12	450	31	31.6	456	(236)	12
EL450-20	450	31	31.6	456	(236)	20
EL1000-10	1000	69	70.3	545	(285)	10
EL1000-12	1000	69	70.3	545	(285)	12
EL1000-20	1000	69	70.3	545	(285)	20
EL1800-10	1800	124.1	126.5	621	(327)	10
EL1800-12	1800	124.1	126.5	621	(327)	12
EL1800-20	1800	124.1	126.5	621	(327)	20
ESB3000-10	3000	206.9	210.8	695	(368)	10
ESB3000-12	3000	206.9	210.8	695	(368)	12
ESB3000-20	3000	206.9	210.8	695	(368)	20

TABLE B PROBES

Part Number	Max. System WSP PSIG	BarG	Kg/cm²	Type Insulator	Electrolev Model	Replacement Probe Part No.
T020	450	31	31.6	TFE	EL450	*T0202RK*
V020	1000	69	70.3	TFE	EL1000	*V020K*
ZG020*	1800	124.1	126.5	Zirc. Ox.	EL1800	*ZG020K*
FG031*	3000	206.9	210.8	Zirc. Ox.	ELF3000	*FG031RK*
ZBZ020*	1800	124.	126.5	Zirc. Ox	EL1800	*Z020BRZRK*
FSB030*	3000	206.	210.	Zirc. Ox	ELF3000	*FSB030RK*

**Probes - Factory Renew Service Available*

MODEL NO.:

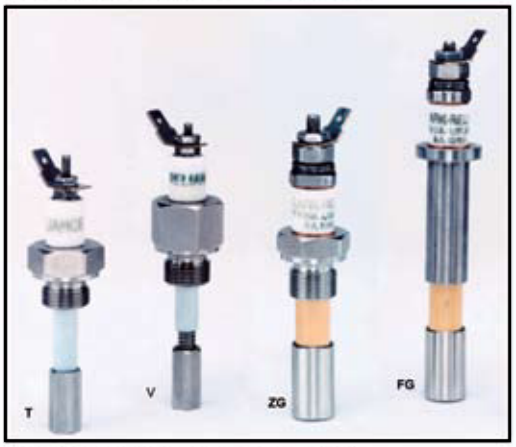
EL ___ ___ ___ ___ ___ ___ ___

- ___ • 10, 12, 20, - other consult factory
- ___ • 450, 1000, 1800, 3000
- ___ • F (3000PSI only)

THE PROBES:

HEART OF THE SYSTEM AND KEYS TO RELIABLE PERFORMANCE

Traditional Probes



The T Type has been designed for pressures up to 450 PSI
The V Type has been designed for pressures up to 1000 PSI
The ZG Type has been designed for pressures up to 1800 PSI
The FG Type has been designed for pressures up to 3000 PSI
("T" and "V" probes are Teflon insulated with an average service life of 5 to 15 years)
(ZG and FG series probes are zirconium insulated and are the industry's only repairable probes, with an average service life of 5+ years)

Patented Probes: U.S. 4,507,521 S.A. 83/664 U.K. 2,127,976 Canada 1,200,283
Plus Others World-Wide

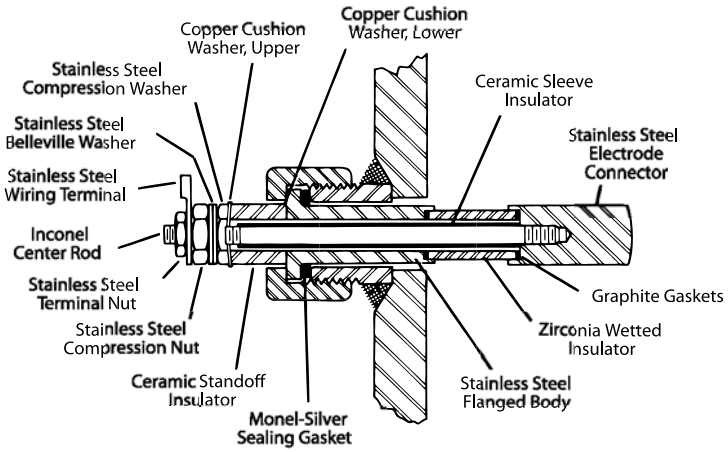
Brazed Probes



The FBRZ type has been designed for specification or retrofit into any dark-Reliance instrument designed for 3000 PSI.
The FSB type has been uniquely designed and specified only for Clark-Reliance model instruments, without any sealing gaskets required.
The ZBRZ type has been designed for specification or retrofit to any Clark-Reliance instrument designed for pressures up to 1800 PSI.

PROBE REPAIRABILITY

System economy is enhanced by the availability of off-the-shelf Probe Repair Kits for ZG and FG probes. Replaceable parts include gaskets and other components that are susceptible to routine wear factors over extended periods of time. Factory repair services include pressure and electrical testing



DOOR MOUNTED INDICATORS FOR CONTROL UNITS

Sub-Miniature Bi-color Style Door Mounted Indicators are weather resistant and provide a wide viewing angle. The Door Mounted Indicators are retrofitable on all model ECIL-**R Control Units.

Optional enclosure door window kit available, for use with miniature or standard indicators.



MODEL NO.	STYLE	LIGHTS
SMI-10BD	Sub-Miniature Bi-color	10
SMI-12BD	Sub-Miniature Bi-color	12
SMI-20BD	Sub-Miniature Bi-color	20

For component information, or retrofit (upgrade), contact your local Clark-Reliance representative with the existing system serial number. Numbers begin with EE-__ __ __ __, located on probe housing nameplate, control unit door nameplate, and stamped directly on column.

SYSTEM POWER REQUIREMENTS

ECIL Systems: 120 VAC Supply 240 VAC Supply

Note: Most systems consume less than 75 watts of power. Consult factory for actual system combination power requirements, if required.

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