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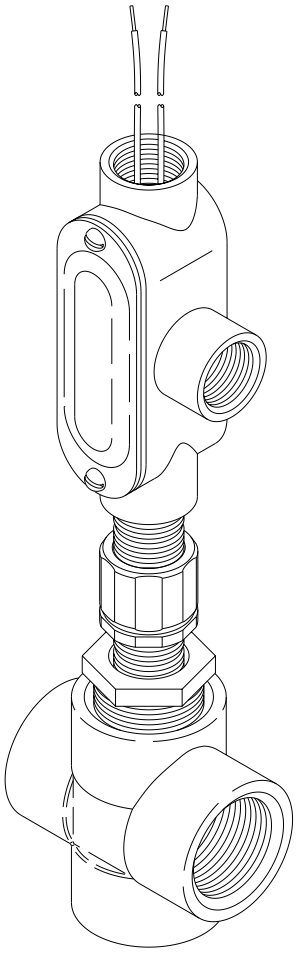
Information Sheet

Boiler Conductivity Probe Assembly
Part No. 34761



The ***Boiler Conductivity Probe Assembly*** is designed for use with the ***LMI Conductivity Monitor/Controller***. It comes complete with conductivity electrode, conduit box and sampling cross. It can be used for both **CONTINUOUS** or **TIMED** boiler conductivity sampling and blowdown.

PART NO. 34761 – SPECIFICATIONS	
Temperature	400° F (204° C)
Pressure	250 psi (17.3 Bar)
Cross	Forged steel 1" NPT
Electrode	316 Stainless Steel & Ryton™
Cell Constant	1.5
Wiring Conduit	½" fittings

DO NOT use a substitute cross.

It is important to use the water sampling cross provided to maintain the correct cell constant. The probe should be placed on top of the sampling cross with the direction of water flow going past the electrodes. The bottom of the cross should be plumbed with a dump valve to the drains. This is to allow for flushing and cleaning of the probe.

The electrical conduit box or "T" provides one connection for wiring to the probe, one connection for wiring to the monitor/controller, and one connection for piping to the drains. The piping to the drains is a safety feature. It allows water to flow to the drains instead of the electrical conduit of the controller in the event of a leak.

LMI MILTON ROY

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Replaces same of Rev. C 4/98
1765.D 2/00

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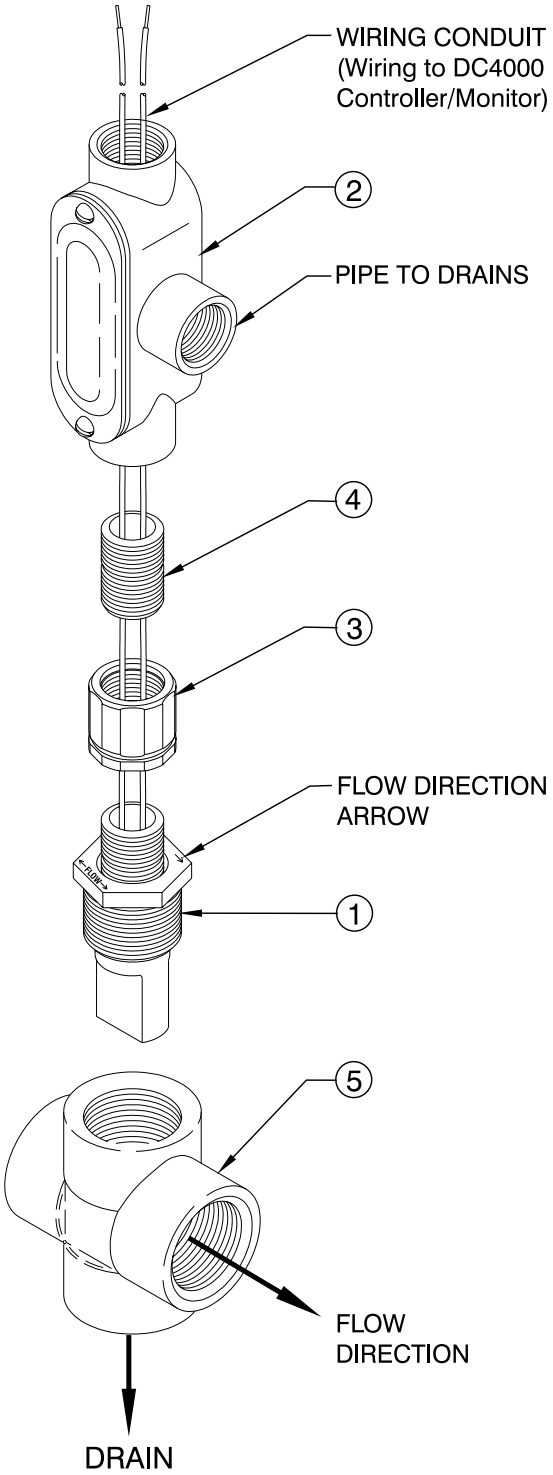
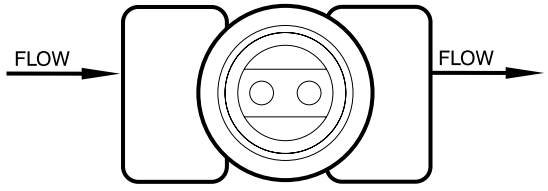
Instruction Sheet

Boiler Conductivity Probe Installation



KEY NO.	PART NO.	DESCRIPTION
1	34759	Boiler Probe
2	34796	Conduit Box Assembly
3	35059	Conduit Fitting, ½" NPT
4	35058	Conduit Nipple, ½" NPT
5	34760	Cross Fitting 1" NPT



View from Bottom of Cross

The probe inside the sampling cross should be aligned parallel with the flow of water. This is done so that the probe does not restrict the flow.

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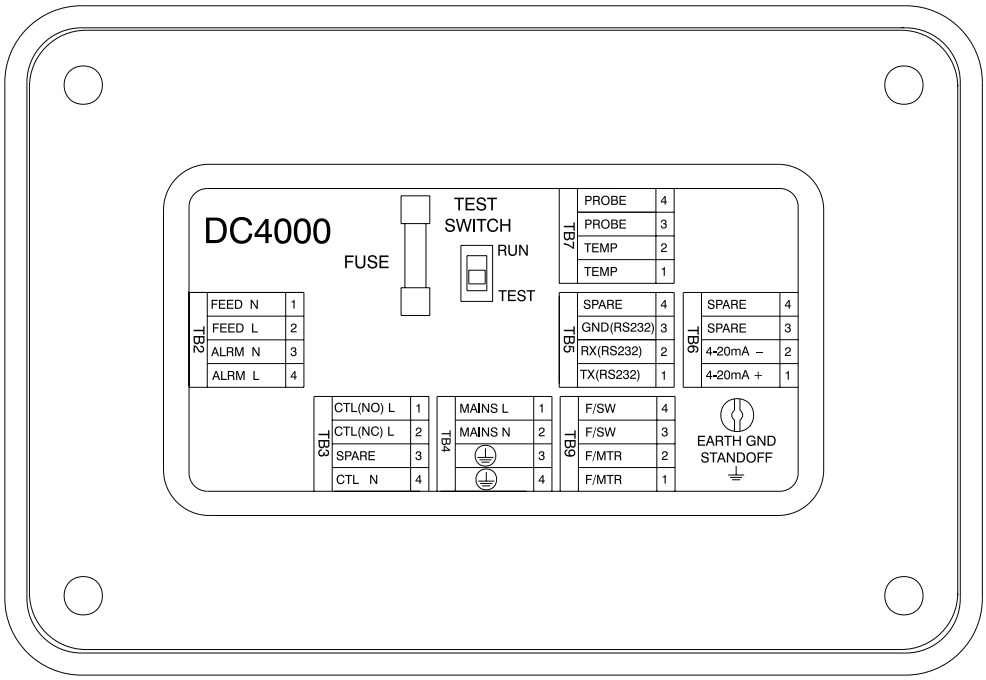
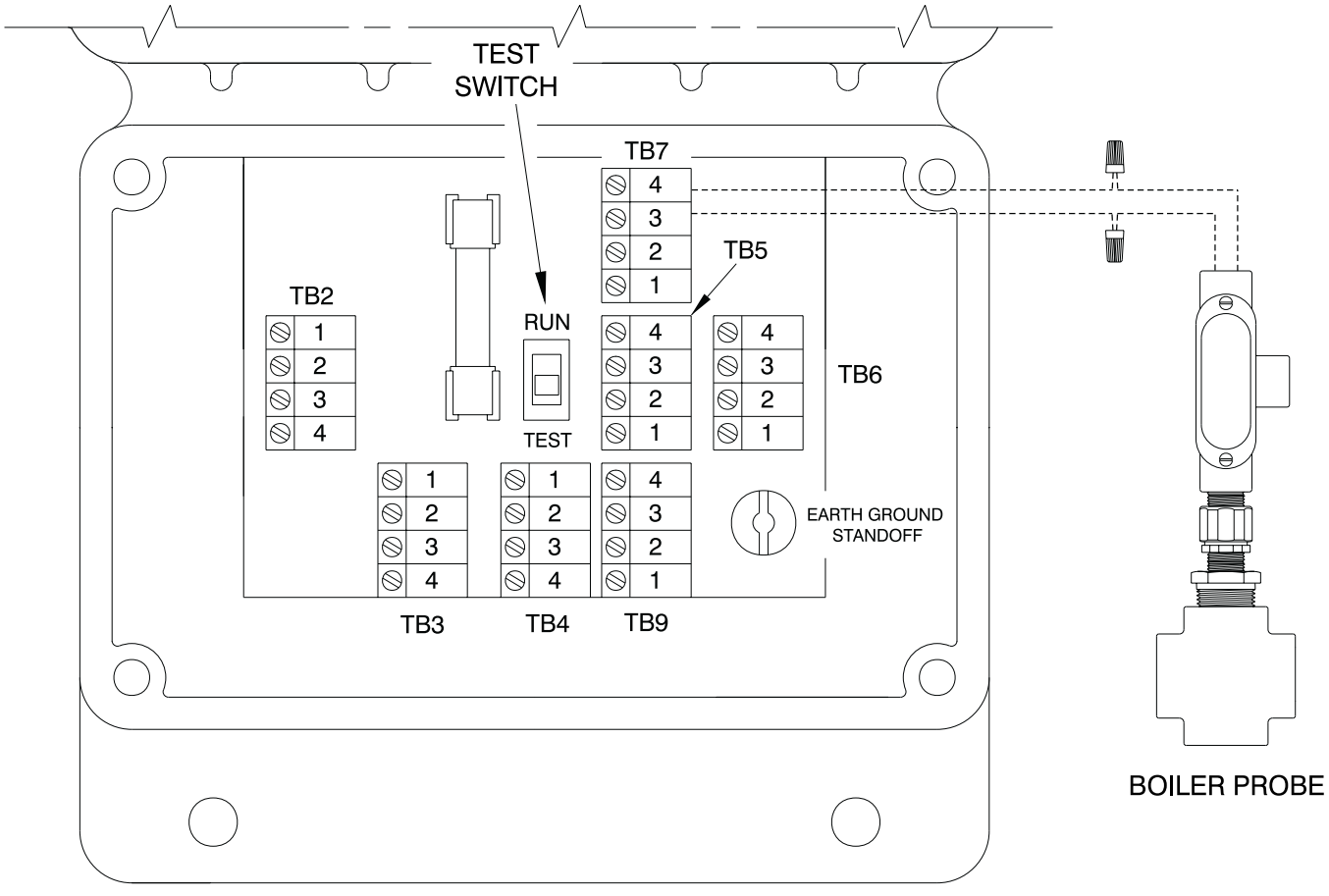
DC4000 Terminal Strip Layout

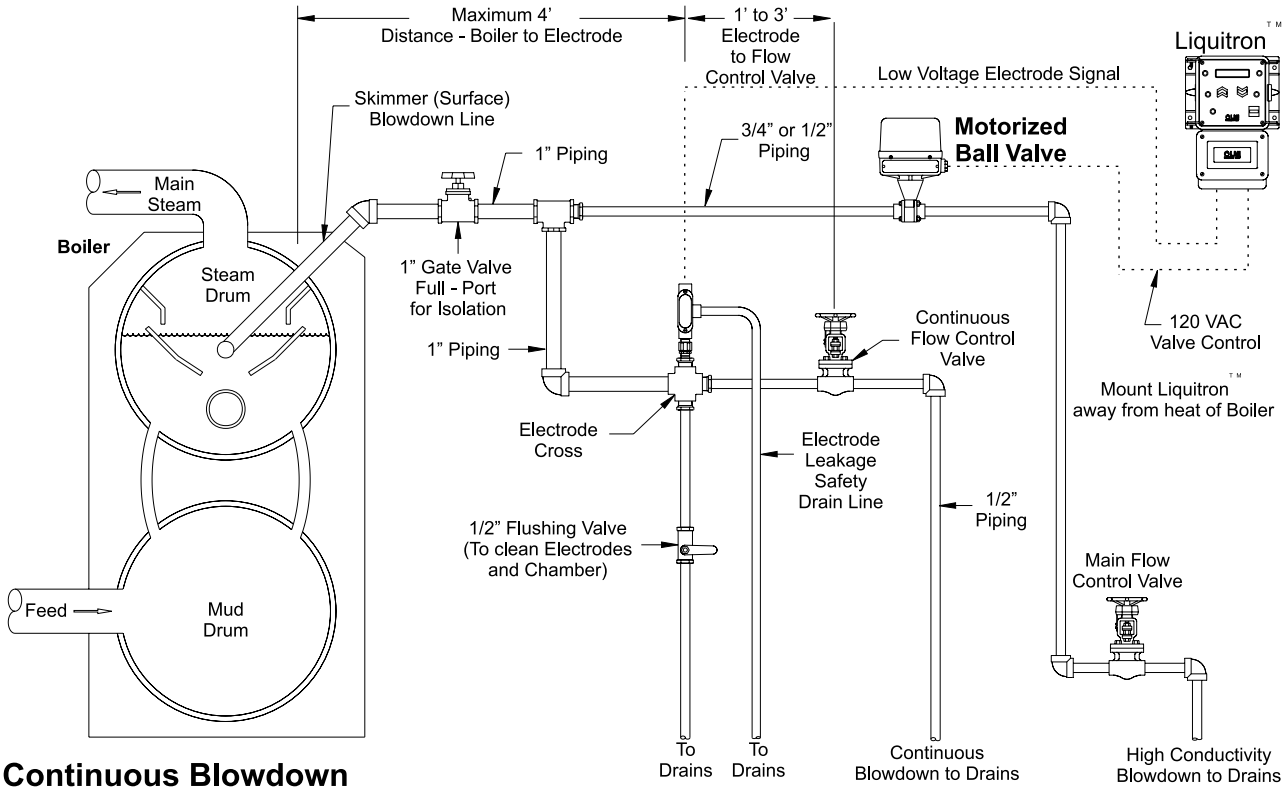




Wiring Instructions for DC4000 Controller

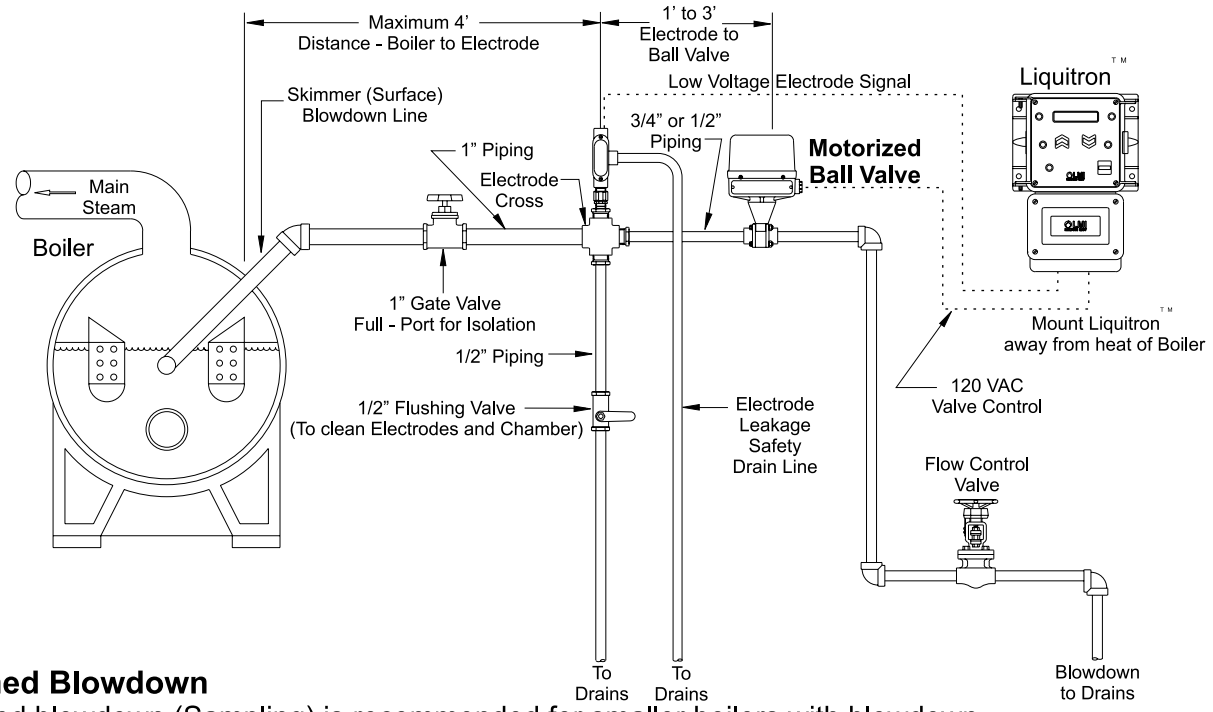
Wire the boiler conductivity probe to TB7 #3 and #4 wire (shown above).

Recommended System Installations



Continuous Blowdown

Continuous blowdown (Sampling) is recommended for boilers with blowdown requirements of over 5,000 lbs/hr. This system allows for continuous monitoring and control of boiler water conductivity.



Timed Blowdown

Timed blowdown (Sampling) is recommended for smaller boilers with blowdown requirements of less than 5,000 lb/hr. The boiler water is periodically sampled for conductivity. This is done in order to maintain the boiler water level and not to *'overblow'* the boiler.

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