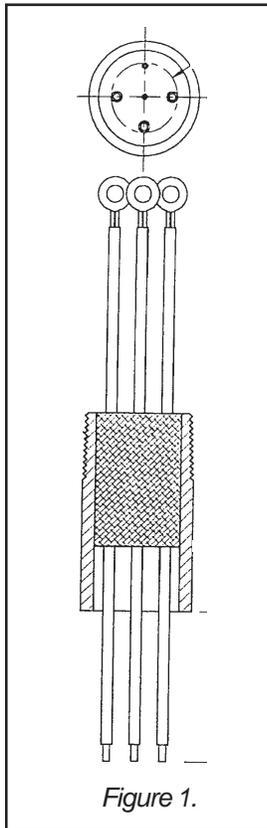


ENGINEERING DATA SHEET

<i>Power Lead Connectors</i>		
Date	Supersedes	No.
04/01/99	08/19/98	16E

The power leads and the TCO leads are fed from the motor windings through the Stator Band by a nipple which will accommodate a standard Connection Box. This feed thru varies by pump series and temperature or pressure rating. These may be one of the following:

- A. UL Approved Sealed Nipple
- B. Pressure Containing Feed Thru
- C. High Pressure Lead Feed Connector



A. UL Approved Sealed Nipple

This method is used as standard on the "G" Series Pump. Typically 9 Power leads and 2-TCO leads are sealed with a UL Approved potting compound to minimize passage of flammable vapors to the stator windings and to separate and protect the lead wires. This design does not have a pressure rating since fluid can wick up between the insulation of the wire and the potting compound to the electrical junction box. To provide secondary containment, it is necessary to use a leakproof junction box in conjunction with this design (See EDS 22E).

B. Pressure Containing Feed Thru (See Figure 1)

The "NC" Series pump is fitted, as standard, with a feed-thru which has the motor and TCO leads sealed in an epoxy or other suitable compound which forms a leakproof seal around the wires. Since the wires have been stripped of insulation in the sealed section, wicking of fluid is prevented. This feed thru has only three (3) motor leads, so it is necessary to specify the desired voltage with the order.

The pressure rating is 300 psi at 400°F (205°C).

This lead seal is available, as an option, on all series of canned motor pumps.

C. High Pressure Lead Feed Connector

The high pressure lead connector is provided as a standard item for Chempumps rated at 600 psi design and above. A high pressure lead connector can contain up to 5000 psi and is designed to be part of the secondary pressure boundary at the pressure rating of the unit.

The high pressure lead connector allows for only 3 power lead wires, therefore the customer must specify a single voltage requirement.

In the event of a stator liner rupture, this device eliminates the possibility of the pumped fluid entering into the conduit line. Another advantage is the elimination of oil leakage from the stator cavity by wicking through the lead wires.

The high pressure lead connector can be supplied on 150 or 300 psi design pumps when specified. For maximum protection, however, the standard nipple and connector require special threading and welding (See Figure 2 Below).

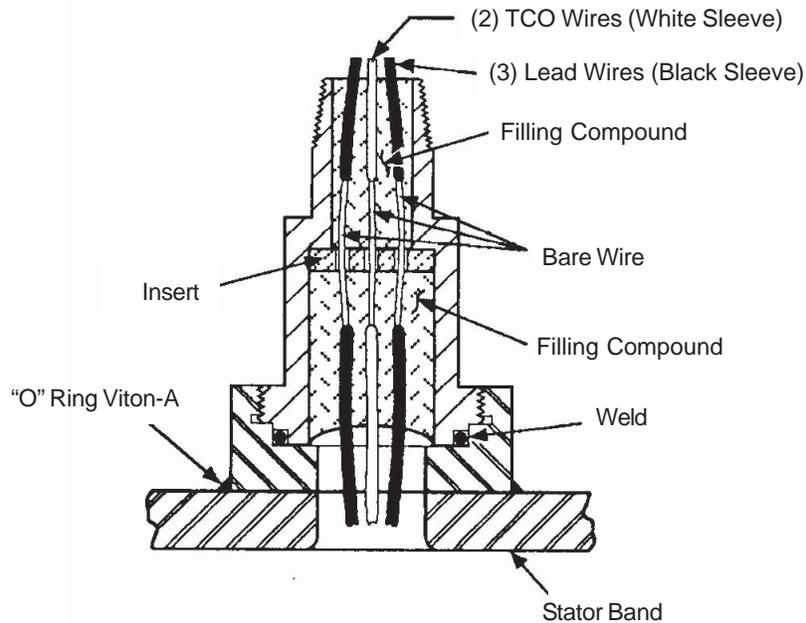


Figure 2.