

## CA1001 Stuffing Box

### Installation Instructions



#### 1. Application

- 1.1 The CA1001 is used around the capillary tube of an AR or ARC control to hold the bulb into a well, or seal the bulb into a tank.
- 1.2 AR thermostats with style 4 bulbs include a factory installed non-removable stuffing box that may make the use of a CA1001 unnecessary. AR thermostats style 9, ARC limits and all thermostats and limits with optional moisture resistant and explosion resistant enclosures will require the CA1001 stuffing box if used as described in 1.1.
- 1.3 It is always advisable to use a thermostat well where high pressures, corrosive material or high or varying flows are involved. Without a well, a leak or defect in the thermostat would necessitate shutting down and draining the system. However, it should be noted that the use of well may slow down the response time and increase controller differential.

#### 2. Instruction

- 2.1 The parts included with this kit are shown in Fig. 1.
- 2.2 Slide the small brass bushing over the bulb and onto the capillary and position out of the way. The hex should be towards the control and threads towards the bulb.
- 2.3 Slide the large brass bushing over the bulb positioned with the hex facing the control.
- 2.4 Drop 3 split washers around the capillary and down into the hollow of the large compressing fitting. It is very important for a liquid tight seal that the slots are positioned alternately 180° from each other per Fig.1.
- 2.5 Wrap the 5" graphite impregnated cord tightly around the capillary and push it tightly into the compression fitting hollow with a blunt tool being careful not to damage the capillary.
- 2.6 Put at least one split washer in place and temporarily thread the small bushing into place inside the large bushing. This will help to compact the cord into a liquid tight seal. Remove the small bushing, add the remaining 2 split washers again being sure to stagger the slots 180° apart and reinstall the small bushing semi tight.
- 2.7 Position the assembly to the correct position on the capillary, tighten the large bushing into its mounting position in the tank or process, then tighten down the small bushing to ensure a liquid tight seal.
- 2.8 If using the stuffing box assembly for mechanical holding only in an air system or in a thermostat well the extra care of assembly described in 2.4 through 2.6 is not as critical.

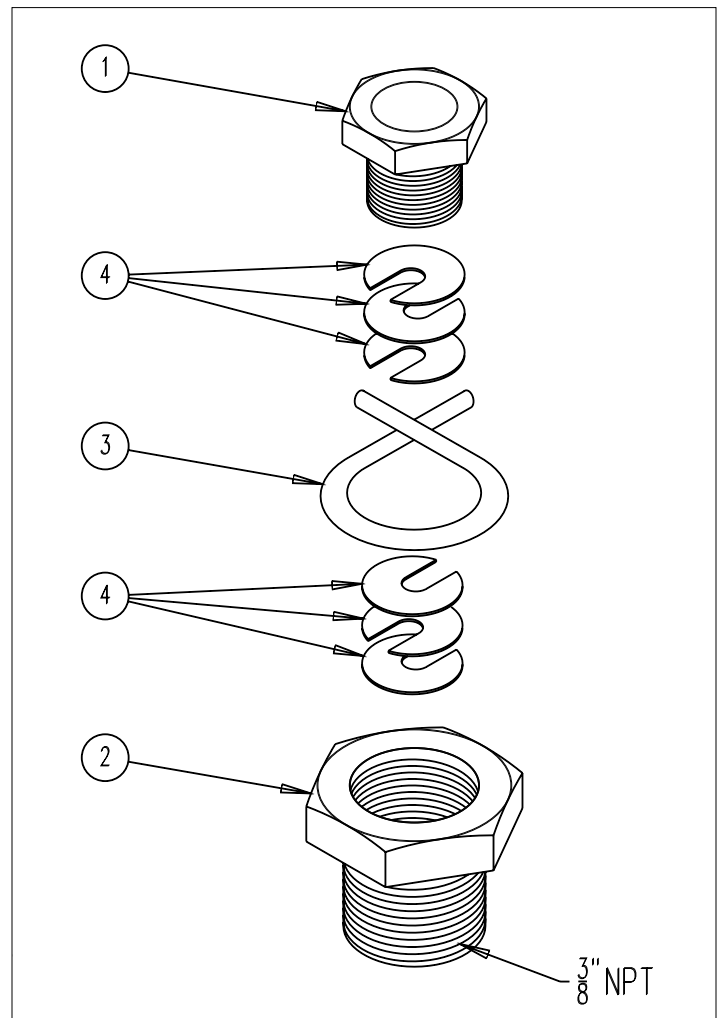


Figure 1

**For further assistance, please call 24hr hotline: 1-877-325-3473 (U.S.A. and Canada)  
Please have model and serial numbers available before calling.**

**WARRANTY:** Under normal use the Company warrants to the purchaser that defects in material or workmanship will be repaired or replaced without charge for a period of 18 months from date of shipment, or 12 months from the start date of operation, whichever expires first. Any claim for warranty must be reported to the sales office where the product was purchased for authorized repair or replacement within the terms of this warranty.

Subject to State or Provincial law to the contrary, the Company will not be responsible for any expense for installation, removal from service, transportation, or damages of any type whatsoever, including damages arising from lack of use, business interruptions, or incidental or consequential damages.

The Company cannot anticipate or control the conditions of product usage and therefore accepts no responsibility for the safe application and suitability of its products when used alone or in combination with other products. Tests for the safe application and suitability of the products are the sole responsibility of the user.

This warranty will be void if, in the judgment of the Company, the damage, failure or defect is the result of:

- Vibration, radiation, erosion, corrosion, process contamination, abnormal process conditions, temperature and pressures, unusual surges or pulsation, fouling, ordinary wear and tear, lack of maintenance, incorrectly applied utilities such as voltage, air, gas, water, and others or any combination of the aforementioned causes not specifically allowed for in the design conditions or,
- Any act or omission by the Purchaser, its agents, servants or independent contractors which for greater certainty, but not so as to limit the generality of the foregoing, includes physical, chemical or mechanical abuse, accident, improper installation of the product, improper storage and handling of the product, improper application or the misalignment of parts.

No warranty applies to paint finishes except for manufacturing defects apparent within 30 days from the date of installation.

The Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the product(s).

The Purchaser agrees that all warranty work required after the initial commissioning of the product will be provided only if the Company has been paid by the Purchaser in full accordance with the terms and conditions of the contract.

The Purchaser agrees that the Company makes no warranty or guarantee, express, implied or statutory, (including any warranty of merchantability or warranty of fitness for a particular purpose) written or oral, of the Article or incidental labour, except as is expressed or contained in the agreement herein.

**LIABILITY:** Technical data contained in the catalog or on the website is subject to change without notice. The Company reserves the right to make dimensional and other design changes as required. The Purchaser acknowledges the Company shall not be obligated to modify those articles manufactured before the formulation of the changes in design or improvements of the products by the Company.

The Company shall not be liable to compensate or indemnify the Purchaser, end user or any other party against any actions, claims, liabilities, injury, loss, loss of use, loss of business, damages, indirect or consequential damages, demands, penalties, fines, expenses (including legal expenses), costs, obligations and causes of action of any kind arising wholly or partly from negligence or omission of the user or the misuse, incorrect application, unsafe application, incorrect storage and handling, incorrect installation, lack of maintenance, improper maintenance or improper operation of products furnished by the Company.



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