

INTRODUCTION

The Dynisco models RMT (Retractable Melt Thermocouple) and GRMT (Graduated Retractable Melt Thermocouple) are used to measure temperature inside the melt stream. The depth of immersion of the junction into the hot melt stream can be varied from zero to mid-stream during maximum flow and pressure conditions, without removing the unit from the adapter. Temperature measurements at various depths in the melt stream during full operation are now possible with Dynisco's Retractable Melt Thermocouple.

OPERATION

Adjusting the setting of the knurled adjusting screw controls the position of the measuring junction. Turning the screw clockwise increases the immersion of the probe. The probe should be brought back to minimum immersion before melt cool down.

Do not force the adjusting screw when resistance is felt. The adjustment screw has a positive stop to prevent accidental removal from the hex nut.

SPECIFICATIONS

Thermocouple: 22 Ga. "J" calibration with MgO insulation and 1/8" OD 304SS sheath standard (3/16" protection tube available).

Probe: Exposed junction

Maximum Temperature Rating: 900°C

Body: Stainless Steel with 1/2"-20 UNF x 1-3/4" thread on 3", 5" or 7" standard body length; 3/8" wrench flats.

Immersion Range: 1/8" – 1" and 1/8" – 2 1/2" standard. Flush units also available.

Pressure range: 15,000 psi

Reference End Termination: Polarized male plug rated at 475°F.

Adjusting Mechanism: Adjusting screw with positive stop to prevent accidental disengagement under full pressure operation. Lava gland and follower for pressure seal inside standard or graduated hex nut.

INSTALLATION

Prior to replacing complete probe or element:

A. Retract element to minimum immersion while plastic is hot.

B. Allow machine to cool.

C. BE ABSOLUTELY SURE THAT THERE IS NO PRESSURE WITHIN THE BARREL BEFORE REMOVING THE MELT THERMOCOUPLE OR ANY OF ITS COMPONENTS!

INSTALLATION (CONT.)

1. For operation under pressure, hex nut must be tightened on body at least hand tight to crush lava gland.
2. To insert or remove body, use 3/8" wrench flats – DO NOT use hex nut or polarized plug.
3. To replace the thermocouple probe, turn the hex nut counter-clockwise and disengage from body. Remove the probe from the body. Install the new lava gland packed with the replacement element. Insert the new probe and tighten the hex nut on body to crush the lava gland. (See standard assembly drawing.)

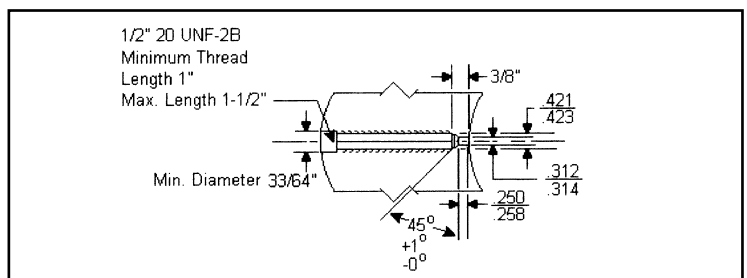


FIG. 1 Installation Mounting Dimensions

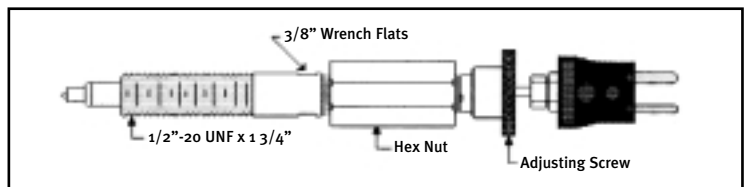


FIG. 2 Standard Retractable Melt Assembly (RMT-4222-03)

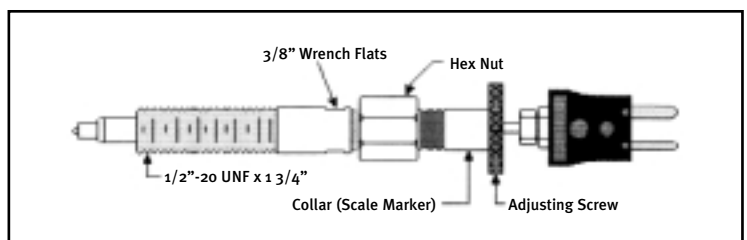


FIG. 3 Graduated Retractable Melt Thermocouple (GRMT-4222)

The Graduated Melt Thermocouple (GRMT-4222) provides graduated divisions spaced 1/16" apart on a modified hex nut. A collar is attached to the thumb screw to form the scale marker. The total number of divisions visible indicates the degree of retraction from full immersion. (e.g. Five divisions are visible on a graduated retractable with a maximum 1" immersion. The actual immersion is: 1" – (5 x 1/16") = 11/16" immersion.)

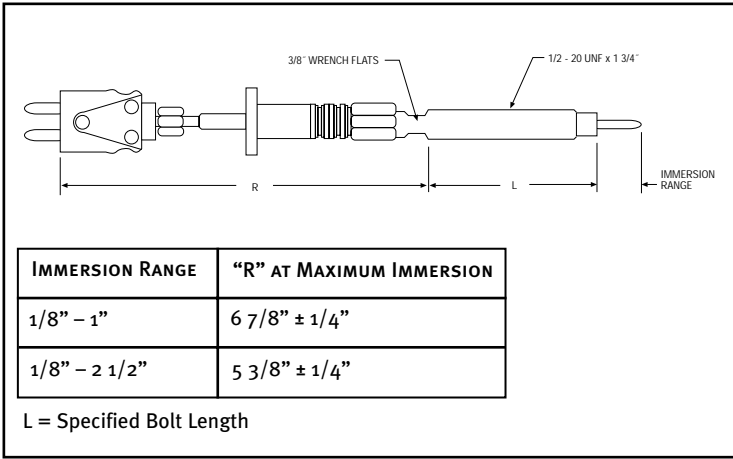


FIG. 4 Dimensional Assembly

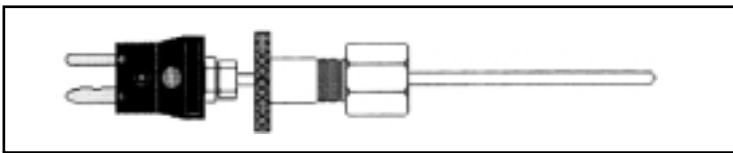


FIG. 5 Replacement Element (RET-4222)

THERMOCOUPLE REPAIR

Questions concerning warranty, repair cost, delivery, and requests for a RA# should be directed to the Dynisco Repair Department, 508-541-9400 or email: repair@dynisco.com. Please call for a return authorization number (RA#) before returning any product. Damaged transducers should be returned to:

Dynisco, LLC
 Repair Department RA#
 38 Forge Parkway, Franklin, MA 02038

TECHNICAL ASSISTANCE

Please call 800-221-2201 or 508-541-9400 or fax 508-541-9436.

WARRANTY

This Dynisco product is warranted under terms and conditions set forth in the Dynisco Web Pages. Go to www.dynisco.com and click "Warranty" at the bottom of any page for complete details.



Dynisco
 38 Forge Parkway Franklin, MA 02038
 Tel: 508.541.9400 Fax: 508.541.9436
www.dynisco.com

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