

ME-0741-PS-553-D ESG2/IS 08-08 250 SERIES EXTENDED SPRUE GATE NOZZLE INSTALLATION DATA REFER TO : MINI PRINT # 1800





OPERATING & SERVICING INSTRUCTIONS FOR 250 SERIES EXTENDED SPRUE GATE NOZZLES

All interchangeable nozzles are similar, and differ only in size and material flow capacity. The information found below applies to the 250 Series Extended sprue gate nozzles.

OPERATING PROCEDURE

The nozzles are supplied with a Square (Flat) Coil or Cast-In heater equipped with a Type J Thermocouple. It is recommended to use a D-M-E closed loop Temperature Controller for optimum

Temperature Control.

When starting the nozzle, set the temperature to 10% voltage if using in open loop manual type or to 200 °F if using closed loop automatic type. In either case this procedure will allow the heater to dissipate any moisture.

Make sure you maintain this start-up setting for 15 minutes.

Controller equipped with Step Smart ® , Smart Step ®

or other heater warm-up circuitry will change automatically.

It is essential to use controllers with the proper voltage and wattage capabilities. The voltage and wattage of each heater is clearly marked on the heater tag

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DISASSEMBLY PROCEDURE

- 1. Place the nozzle in a vice using "V" Block, then secure it firmly at the nozzle head. 2. For removal of tip from nozzle, a six point deep well socket is recommended. The
- nozzle must be at processing temperature and the heater should be turned off when removing tip counter-clockwise from the nozzle. If nozzle is still in the mold, The nozzle must be "keyed" to prevent wire damages.
- Tip must be cleaned of any material before reassembling.
 Remove the heater using a Square Coil Heater wrench (Wrench is included with replacement heater).
- Cast-In heater may be removed if failure occurs and replaced with a Square Coil Heater. Follow assembly procedures for Square Coil Heater.

ASSEMBLY PROCEDURE

- 1. Nozzle body must be cleaned of any material in the seal off area and threaded areas before reassembling.
- 2. Install the heater using a square coil heater wrench (Wrench included with replacement heater). After the heater is installed, it should cover the entire length of the nozzle body - stretch the heater by hand if necessary.
- Apply an anti-seize compound on the tip threads.
 Firmly screw the tip sub-assembly into the shank of the nozzle body. Tighten an untighten two or three times making sure there is a good contact between the tip and the shank. Torque the sub-assembly into the nozzle body using 30 ± 5 ft-lbs. For protection of the tip sub-assembly, a six point deep well socket is recommended.

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- 6. Careful attention should be taken to the heater / thermocouple leads as damage could occur when working on nozzle assembly.
- 7. Seal ring for nozzle body must be replaced each time nozzle body and / or manifold are removed to ensure seal-off.
- 8. Wait a minimum of 5 minutes after set point has been achieved for sufficient heat to transfer into the tip before molding.

IMPORTANT SAFETY INFORMATION

A hot-runner system includes electrical elements and may contain molten plastic at elevated temperature and pressure. To avoid injury, exercise caution by reading these instructions before servicing or operating the system

These instructions must be passed on to the end user where they should be read before using this product. Failure to do so can result in serious injury or death.



Failure to comply will result in serious injury or death: ELECTRICAL HAZARDS

Improper voltages or grounding can result in electrical shock. Use only with proper voltages and a proper earth ground. To avoid electrical shock, do not operate product when wet.

Do not operate this equipment with covers or panels removed.

To avoid electrical shock, turn off main power disconnect and lockout / tag out before servicing this device. Do not connect temperature sensors to electrical power. It will damage the product and it can cause fire, severe injuries or even death.

If green ground wire present wire must be connected to the ground. Do not rebend rigid leads. Rebending leads might result in damage to circuit. Product might absorb moisture when cool. Use low Voltage or power to drive out residual moisture before applying full power. Failure to do so may cause damage to this product.



Failure to comply can result in serious injury or death: STORED ENERGY AND HIGH TEMPERATURE HAZARDS This product maintains molten plastic at high pressure. Use caution when operating and servicing the system.

Physical contact with molten plastic may result in severe burns. Proper protective equipment, including eye protection, must be worn. This product has heated surfaces. Use caution when operating and servicing the system to avoid severe burns. Proper protective equipment should be worn.



