

ControlFlow Solder Nozzles

Specially Designed to Reduce Dross Formation and Minimize Solder Balls



3-25 mm ControlFlow solder nozzles



4-25 mm mini-wave solder nozzles

Overview. ControlFlow solder nozzles are specially designed with controlled flow risers and sleeves that significantly reduces the formation of solder dross and minimizes the creation of solder balls.

The newly designed sleeved riser provides improved solder flow with less solder oscillation and reduced solder ball formation. ControlFlow solder nozzles also greatly increase process run times and enables longer nozzle usage times.



ControlFlow system with grooved riser and sleeve

Features and Benefits

- ControlFlow nozzles greatly reduce dross creation and minimize formation of solder balls during the selective soldering process
- Minimizes solder turbulence and agitation for improved solder flow and increased nozzle life
- ControlFlow nozzles are available in 3-25 mm (0.118-1.00 in.) sizes and mini-wave nozzles are available in 4-25 mm (0.157-1.00 in.) sizes
- Magnetically coupled nozzles allow for rapid changeover between various sizes with minimal interruption to production
- Available for all Nordson SELECT Novo® 102, 103, Cerno® 102IL, 103IL soldering machines

Integrated Solution. The ControlFlow Solder Nozzles are fully compatible with all Nordson SELECT machines and ensure optimum results for your selective soldering process. Nordson SELECT's closed-loop process controls enable successful results for a full range of soldering applications and ensures stable and repeatable results for high-yield production.

Experience. With over a decade of selective soldering experience and more than a thousand systems currently in production, Nordson SELECT is committed to providing innovative solutions for all selective soldering needs. Our global support network, including state-of-the-art application development labs, provides customers with world-class know-how and application expertise.



ControlFlow Conversion Kit

ControlFlow Solder Nozzles

Outside Diameter	Tin-Lead P/N	Lead-Free P/N *
3 mm (0.118 in.)	6151335	6151343
4.5 mm (0.177 in.)	6151336	6151344
6 mm (0.236 in.)	6151337	6151345
7.5 mm (0.295 in.)	6151338	6151346
9 mm (0.354 in.)	6151339	6151347
12 mm (0.472 in.)	6151340	6151348
18 mm (0.708 in.)	6151341	6151349
25 mm (1.00 in.)	6151342	6151350

* - Lead-free bullet nozzles are marked with two rings for easy identification

Mini-Wave ControlFlow Solder Nozzles

Mini-Wave Width	Tin-Lead P/N	Lead-Free P/N *
4 mm (0.157 in.)	6151890	6151895
8 mm (0.315 in.)	6151891	6151896
12 mm (0.472 in.)	6151892	6151897
18 mm (0.708 in.)	6151893	6151898
25 mm (1.00 in.)	6151894	6151899

* - Lead-free mini-wave nozzles are marked with two dots for easy identification

ControlFlow solder nozzles must be tinned with Superior 515 flux or either SAC305, SN100C or Pb63Sn37 tin-lead tinning wire.

ControlFlow and mini-wave solder nozzles can be ordered separately as required or can be ordered in complete sets.

Custom sizes of both ControlFlow and mini-wave solder nozzles are available upon request. Contact Nordson SELECT for further information.

ControlFlow and mini-wave solder nozzles are compatible with all Novo® 102, 103, Cerno® 102IL, 103IL models.

For more information speak with your local sales rep or contact your regional office.

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