

Cleaning-in-Place™

Automatic cleaning for extreme applications

Cleaning-in-Place™ is an automatic cleaning system that can easily be connected to 3nine oil mist separators.

Cleaning-in-Place™ was developed for extreme applications in which high concentrations of solid particles are carried away by the oil mist, for example during grinding or when machining casting. Cleaning-in-Place™, which is completely automatic, gives you guaranteed maintenance-free operation even under the most severe conditions.

Cleaning-in-Place™ has been specially designed to be easy to install. The system flushes and cleans the inside of the oil mist separator with cutting fluid from the machine tool.

Flushing is done intermittently by means of an automatic valve controlled by a timer. There is no loss of cutting fluid with Cleaning-in-Place™, since the fluid is fed directly back to the machine tool.

Cleaning-in-Place™ works with emulsions and oils. 3nine recommends Cleaning-in-Place™ in the following cases:

- Grinding and polishing applications
- Machining of cast iron
- Heat treatment (quench oil) applications.

Technical description

Cleaning-in-Place™ is connected to the pressurised cutting fluid. The fluid is fed in through a strainer to prevent solid particles getting stuck in the system. On flushing, the solenoid valve is opened automatically by a 220 V timer, cutting fluid is sprayed into the oil mist separator through a nozzle, and the separator is cleaned.

The recommended flushing cycle is 30 seconds per half-hour with a flushing flow rate of 0.4 gpm (1.5 l/min). If no pressurised cutting fluid is available, a pump can be added to the system.

