

## Needle funnels for sample and solvent addition

**Product code NF25-2**

### Intended purpose

For addition of sample, wash, or solvent during extract cleanup portion of sample preparation (for use only with SP3-ST pressure manifold system).

### Design and use

Set of two funnels, each consisting of 25 mm diameter reservoir (approx 10 mL volume) and permanently attached 16 g (1.65 mm/0.065 in. OD) stainless steel needle.

Non-binding funnel materials minimize potential for adsorptive loss of dioxin/furan/dl-PCB during cleanup procedure. The through the stopcock funnel design allows the use of inexpensive materials in the SP3-ST manifold (shown in lower photo) without risk of sample contamination or adsorptive loss of analyte because the sample is never in direct contact with the manifold. In the photo, the solvent stream can be seen leaving the needle tip and passing directly into the column headspace.

When using the SP3-ST pressure manifold system, open the stopcock to take column off-line and return it to ambient pressure, then insert needle portion of funnel through stopcock. Turn stopcock and pinch needle portion of funnel to hold it up and prevent air locking. Add sample extract and washes to cleanup column by pouring from vial or bottle. Remove needle funnel and turn stopcock to pressurize again and resume flow.

By rinsing funnels with solvent between samples, two funnels can service an entire cleanup batch of as many as 24 columns (two SP2-RK racks full).

