Agilent Microplate Seal Piercer Pin Plate

Selection Guide

Pin Plate Assembly

This is a selection guide for pin plates.

Picture	Part Number	Description	Pin Size	Pierce Depth	Applications	Recommended No. of Pierces*
	08541-001	96-well round	4.8 mm diameter	4.5 mm	The majority of 96-well plate types	5
	02349-002	384-well round	2 mm diameter	2.1 mm	Single use storage tubes, round welled 384-well microplates	2
	18331-001	384-well square - small	2.7 mm per side	2.1 mm	Square-welled 384-well microplates	3

** When using Pierceable Aluminum Seal in multiple layers. This information indicates how many times a sample well may be pierced, re-sealed (with a new sealing film layer over the old) and pierced again. Piercing/re-sealing cycles beyond the number indicated may result in tearing and fragments of aluminum falling into the sample wells.*

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The Microplate Seal Piercer is designed for use with Agilent Pin Plates, Agilent heat seal and most labware that meets the Standards ANSI/SBS 1-2004 through ANSI/SBS 4-2004. The Seal Piercer is not compatible with Tecan Remp tube racks. It is highly recommended to verify that the specific labware and heat seal required by the application is compatible with the instrument platform prior to a purchase through a demonstration or through the assistance of the Agilent Automation Solutions Business Unit Applications Department.

Microplates may be loaded into the Microplate Seal Piercer manually, in stand-alone mode or by most articulated arm robots. The Microplate Seal Piercer is currently not compatible with the Agilent BenchCel Microplate Handler.

The Seal Piercer and Pin Plates are designed to pierce both Agilent "Pierceable" aluminum-based heat seal as well as "Pierceable" clear heat sealing films. Pin plates are designed for shallow depth piercing to prevent sample contamination. Please note that due to the 4-sided, diamond-shaped tip used in the round pin plate design, the round pin plates produce square-shaped holes (rather than round holds). Customers who use liquid handling tips that require a large open hole for sampling (to avoid the tip hanging or snagging the seal material) may prefer to use a Pierceable Aluminum heat seal—where the opening created remains open once the piercing pin has withdrawn. Pierceable clear heat sealing films tend to close-up (even though a slit remains) when the piercing tip is withdrawn.

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