

LABTIE 24 GC VIAL DISPENSER CONVERTER MEASUREMENTS – ACCURATE MODULAR POWDER DISPENSER

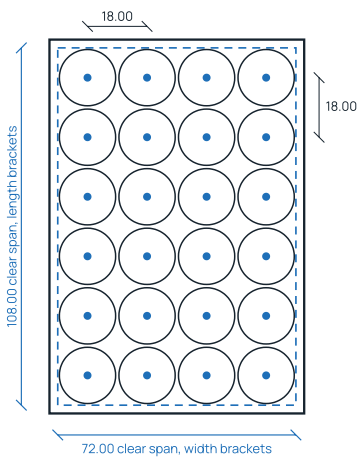
CS-24W-V7mm-4.2mm.STEP

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Millimetre · single solid

The LabTIE 24 GC Vial Dispenser is an accurate modular powder dispenser, and this datasheet covers its converter measurements. It gives the three dimensions customers ask for before ordering, the hole pitch, the clear span between brackets, and which vials and holders the LabTIE 24 GC Vial Dispenser fits. All figures are taken from the released STEP solid, and the views are generated from that same geometry, so what is drawn and what is dimensioned are the same model.

FIG. 01 – TOP VIEW FROM THE STEP MODEL



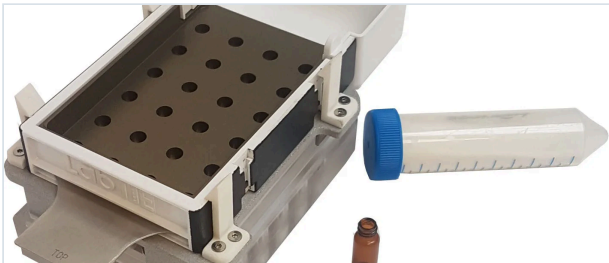
MEASUREMENT 1

Distance between the holes

18.00 mm

Centre to centre, equal on both axes. 24 positions in a 4 × 6 grid on exact 18.000 steps, each with a Ø17.00 mm vial pocket, a Ø6.60 mm guide and a Ø4.60 mm outlet. Note the file name states 4.2 mm; the geometry measures 4.60.

THE LABTIE 24 GC VIAL DISPENSER



The modular powder dispenser as supplied, with the converter fitted over a 24 position vial holder.

Outlets	24
Grid pitch	18.00 mm
Clear span	108.00 × 72.00 mm
Vial pocket	Ø17.00 mm

MEASUREMENT 2

The Dispenser (converter) dimensions clear span between brackets

**108.00 mm length
72.00 mm width**

Inner face to inner face across the brackets on the bottom part. The bracket outer faces measure 113.00 × 77.00 mm, so each bracket is 2.50 mm thick.

MEASUREMENT 3

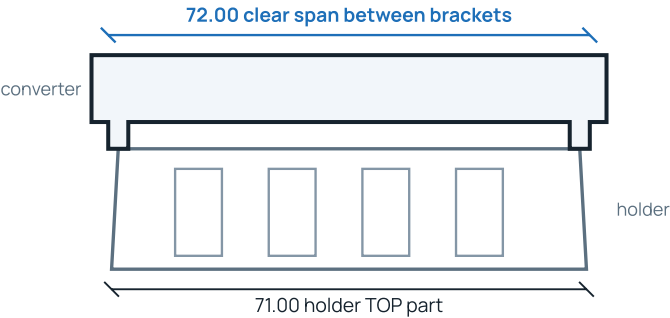
FIT ON THE RACKS AND HOLDERS

FIG. 02 – THE DISPENSER (CONVERTER)



The Dispenser (converter) as shown on the product page. The flat top part carries the 24 outlets on an 18.00 mm grid; the brackets sit on the underside and close around the holder's upper section, shown in section opposite.

FIG. 03 – SECTION: HOW THE BRACKETS ENGAGE THE HOLDER



The brackets close around the holder's upper section, not its base. The base is usually wider; the upper section is the dimension that governs the fit. The same section applies on the 108.00 mm axis.

The LabTIE 24 position holder fits, with the brackets closed on both axes

AXIS	CLEAR SPAN	HOLDER TOP PART	MARGIN	PER SIDE
Length	108.00	107.00	+1.00	0.50
Width	72.00	71.00	+1.00	0.50

FITS both axes clear

Holder top part is the upper section that enters between the brackets, taken from the LabTIE holder built for this converter. Where a rack is published with a base footprint only, the upper section is taken as the footprint less the Bracket Taper Allowance (BTA) of 4.00 mm on each axis, per LabTIE.

MEASUREMENT 3 · CONTINUED

WHICH VIALS FIT THE LABTIE 24 GC VIAL DISPENSER

This converter is built around the 2 mL GC autosampler vial, 12 × 32 mm to ISO 9187. Each position carries a Ø17.00 mm pocket on an 18.00 mm grid, so the vial is judged on its body diameter, not on a rack footprint. Pocket clearance is 17.00 less the body diameter; neighbour gap is 18.00 less the body diameter.

VIAL	CLOSURE	NOMINAL SIZE	BODY Ø	POCKET CLEAR	NEIGHBOUR GAP	FIT
2 mL GC autosampler vial	9 mm screw neck	12 × 32 mm	11.60	+5.40	6.40	Verified fit
2 mL GC autosampler vial	11 mm crimp top	12 × 32 mm	11.60	+5.40	6.40	Verified fit
2 mL GC autosampler vial	11 mm snap ring	12 × 32 mm	11.60	+5.40	6.40	Verified fit
1.5 mL short thread vial	9 mm screw neck	11.6 × 32 mm	11.60	+5.40	6.40	Verified fit
2 mL screwcap micro tube	screw cap	2 mL, conical	11.00	+6.00	7.00	Verified fit
1.8 mL cryovial	internal thread	1.8 mL, self standing	12.50	+4.50	5.50	Verified fit

Verified fit = the vial body enters the Ø17.00 mm pocket and clears its neighbours on the 18.00 mm grid. Body diameters are the nominal glass or polymer dimensions for these standard formats, 11.60 mm for the 12 × 32 mm autosampler vial to ISO 9187; confirm against your own supplier's drawing where a tolerance matters. The holder is built to the vial you use, so vial height and closure type are set at build time. Vial not listed? Send the vial name or part number with your quote request.

RESULT

Every standard 12 × 32 mm autosampler vial fits, screw neck, crimp top and snap ring alike, and so do 2 mL screwcap micro tubes and 1.8 mL cryovials. The pocket is Ø17.00 mm on an 18.00 mm grid, which leaves a 1.00 mm web between pockets, so the vial diameter rather than the closure sets the limit. The holder itself is built to your vial and clears the brackets by 0.50 mm per side on both axes.

THE ONE FIGURE TO CONFIRM

Body diameter is the figure to confirm: anything up to Ø17.00 mm enters the pocket, and up to Ø18.00 mm the vials would touch. Standard GC vials sit at 11.60 mm, so they load and unload freely.