INSTRON®

The difference is measurable®

COMPONENT TEST PLATE

The Instron® Component Test Plate is designed to accommodate the trend of testing end products or components. Within the medical device industry, many test requirements are focusing on the actual quality and test performance of the end product in addition to the standard test requirements of the materials from which it is constructed. The Component Test Plate is used to determine the force limits in particular functional elements of products ranging from catheter delivery systems to buttons on diagnostic test instruments. Once oriented, the test component can be easily fixed to the base through the array of tapped holes. A force applicator (probe, hook, or clamp) can then be attached to the load cell. The combination of a fixed component and test force applicator generates valuable results for either quality or research and development groups. Additionally, the Component Test Plate simplifies the process of adapting custom-made grips and fixtures to the testing systems.

FEATURES

- Allows for easy mounting of components
- Compatible with Instron standard base adapters (type O and D) for easy set up of grips and accessories
- M6 thread holes in a pattern 25 mm apart on center
- Versions available for Instron Single- or Dual-Column testing systems

PRINCIPLE OF OPERATION

The fixture can be used with Instron testing systems and consists of a single tapped plate with an array of M6 threaded holes. A load force applicator, fixture, or device must be attached to the load cell, and is not supplied with the test plate. Please consult Instron's custom engineering group for a full test solution for the test component if desired. The plate is also compatible with standard machinist vices available from an online catalog, such as McMaster-Carr®.

The location of the specimen on the plate should be selected such that the area of interest, where the load application occurs, is completely centered. If the load application is off-center it could potentially damage the load cell.

Instron provides load verification and IQ/OQ services that can be incorporated to simplify your internal validation processes. Bluehill Universal's Traceability module helps achieve 21CFR Part 11 compliance. Reports can be printed, sent by email, or saved for future viewing.

SPECIFICATIONS

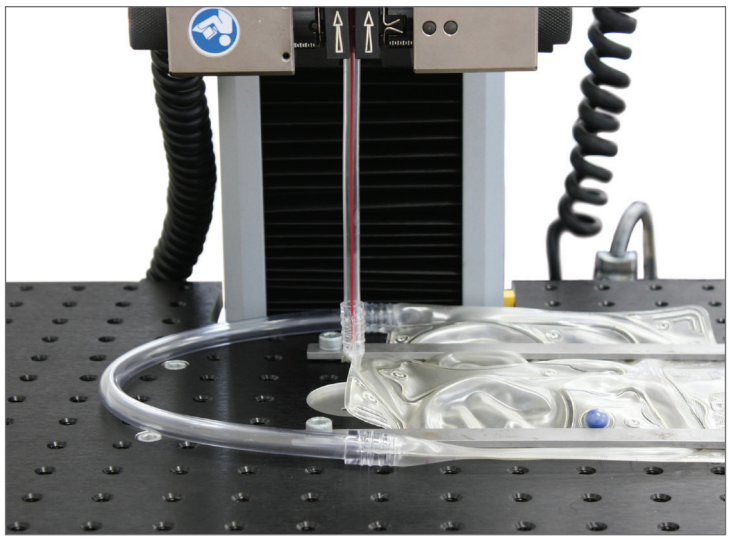
Catalog Number	Compatible Frames	Capacity	Weight		Lower Fitting	Effective Height		Width		Depth	
	Model Number	kN	kg	lb		mm	in	mm	in	mm	in
CP104481[1]	Single Column Systems 444x, 554x, and 584x	1	6	13.2	Mounts to base using 4 × M6 holes	13	0.5	600	23.6	300	11.8
2910-108[2]	Single Column Systems 68SC	1	6.9	15.2	Mounts to base using 4 × M6 holes	53	2.1	600	23.6	300	11.8
2910-107	Dual Column Systems 68TM, 34TM, 596x, 336x, 556x, 556xA, 446x	2	3	6.6	Mounts to base using 4 × M10 holes	13	0.5	300	11.8	300	11.8
2910-106[3]	Single Column Systems 334x	1	5.5	12.1	Mounts to base using 4 × M6 holes	13	0.5	600	23.6	300	11.8
2910-105[4]	Single Column Systems 34SC, 594x, 554x	1	6.9	15.2	Mounts to base using 4 × M6 holes	53	2.1	600	23.6	300	11.8

Notes:
1. Less 105 mm width × 77 mm depth (4.1 ×3.0 in) removed from front right corner to allow access to emergency stop.
2. Less 100 mm width × 125 mm depth (3.9 × 4.9 in) removed from front right corner to allow access to frame controls.
3. Less 170 mm width × 95 mm depth (6.7 × 3.7 in)removed from front right corner to allow access to frame controls.
4. Less 170 mm width × 95 mm depth (6.7 × 3.7 in)removed from front right corner to allow access to frame controls.

EFFECTIVE LENGTHS

- **Upper Fitting:** Grip load force applicator device or fixture (not included)
- All plates have M6 thread holes in a pattern 25 mm apart on center.

Tapped Test Plate Mounted on a Table Model Testing System



Close-Up of Tension Test on Medical Device Secured to the Test Plate

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