

Product Information

Test fixture for determination of plunger actuation force– Version 2

CTA: 210845 205635



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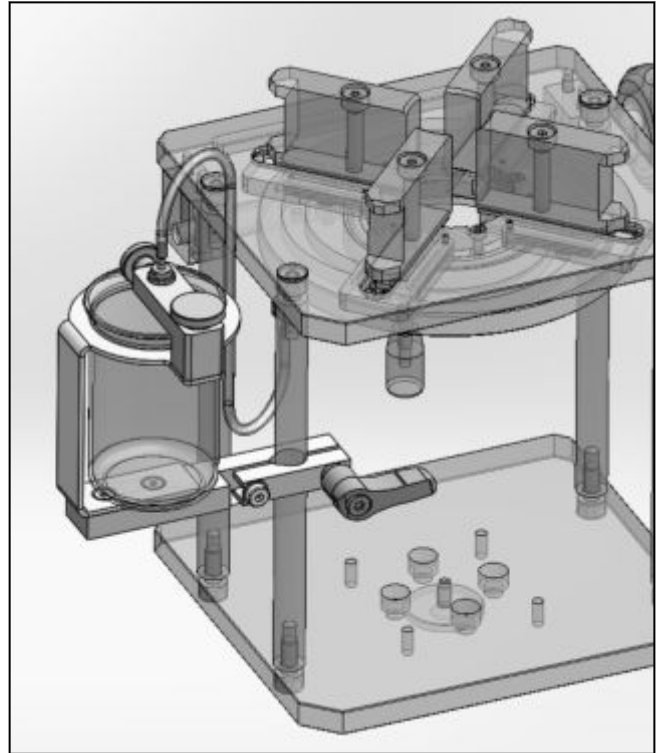
Applications

The test fixture is used to determine the plunger actuation force of sterile single-use syringes made from plastic and other materials for medical purposes, with fluid contents (water) to EN ISO 7886-1 Annex E (2017).

Function description

The universal test fixture for syringes and carpules (082865) is expanded tool-free to include a height-adjustable fluid reservoir (incl. a holder for the cannulae and hose).

The test fixture (082865 and 1075677) consists of a compression die with concave seat and a universal holding fixture for to hold the syringe securely, as well as a tool-free, height-adjustable fluid reservoir with a cannulae holder and inlet hose. During the test, the plunger rod of the syringe is loaded in the compression direction whereby the fluid in the filled syringe is



Lower holding fixture with fluid reservoir

expelled into the reservoir via a standard cannulae (18G).

The cannulae is connected to the hose via a Luer connector. During the test, the plunger travel, the break-away force, as well as the maximum and the average glide force are recorded and evaluated via ZwickRoell testing software. The test speed is 100 ± 5 mm/min.

Advantages and features

- The fixture is ideal for higher test volumes due to quick changing of the specimen.
- The clamping devices accommodate syringes with a diameter of 5 to 50 mm.
- The test fixture features high accuracy and reproducibility.
- testXpert III combined with the Traceability option fulfills the requirements according to the ZwickRoell FDA 21 CFR Part 11 whitepaper.

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Technical data

Item No.	082865	
Test load, max. F _{max}	1	kN
Syringe diameter	5 ... 50	mm
Gripping ranges		
Gripping range 1 for syringe/carpule diameter	5 ... 26	mm
Gripping range 2 for syringe/carpule diameter	24 ... 50	mm
Syringe length	30 ... 150	mm
Height	220	mm
Width	220	mm
Depth	155	mm
Weight	3	kg
Ambient temperature	+10 ... +35	°C
Connection, upper	Adapter 16 ^{H7}	
Connection, lower	Connector TK 40/75 mm Base crosshead (zwickiLine)	
Included in scope of delivery	Lower holding fixture, upper die, beaker for the collection of exiting fluids	

Accessories required

Type	Fluid reservoir for tool-free attachment	
Item No.	1075677	
Test load F _{max}	30	N
Scope of delivery	<ul style="list-style-type: none"> • Height-adjustable fluid reservoir • Connection hose with Luer adapters (internal taper and external taper with lock ring) • Clamping device for Luer adapters • Luer lock combi-plug 	



NOTE

The cannulae (18G) is not provided by ZwickRoell