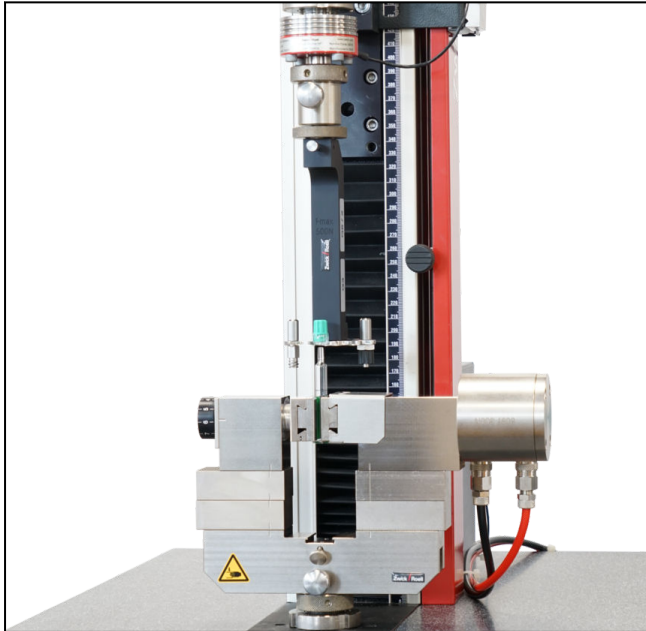


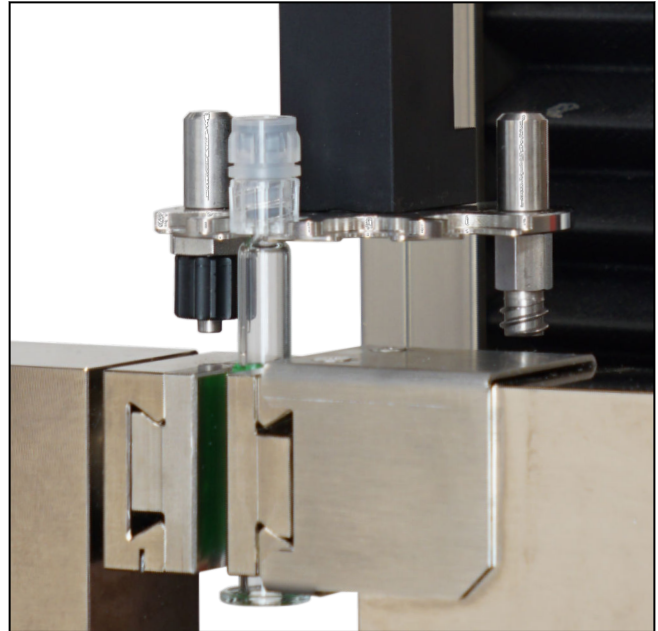
Product Information

ISO 11040-4/-6 Annex G3 - Pull-off force of Luer lock rings

CTA: 167983 133006



Test arrangement with pneumatic grips and self-aligning tension grips



Detail view with gripped syringe

Applications

Testing is performed on glass or plastic syringe barrels for injectables and sterilized subassembled syringes with Luer lock ring ready for filling.

In Annex G3 of the standard, the pull-off force of the Luer lock rings is measured.

To perform the test, the syringe is gripped with the lower pneumatic grip, F_{max} 500 N. The Luer lock ring is pulled axially upwards off the syringe with the self-aligning tension grips. The test speed is 20 mm/min.

The expected force range is 100 N.

The test results contain the following information:

- Sampling rate
- Test speed
- Maximum force
- Force at break
- Number of syringes
- Number of pass/fail syringes
- Deviations

Advantages and features

- Versatile pneumatic grips that can also be used for Annex G1, G4 and G6
- Special self-aligning tension grips for different Luer lock adapter sizes
- Secure gripping of sensitive specimens through adjustable gripping pressure
- high stiffness and precise crosshead guidance with zwickiLine
- maximum safety for user, test results, specimen material and testing system.
- online correction of machine compliance guarantees very high travel-measurement and positioning accuracy
- traceable, reliable test results in accordance with FDA 21 CFR Part 11, guaranteeing complete, tamper-proof documentation of all actions and changes performed in the testXpert III testing software

Product Information

ISO 11040-4/-6 Annex G3 - Pull-off force of Luer lock rings

Technical data

Type Item No.	Self-aligning tension grips for medical components 1037567	
Type	8050	
Operating principle/identification	Simple specimen insertion	
Test load F_{max}	0.5	kN
Dimensions		
Height	155	mm
Width	65	mm
Depth	65	mm
Connection, stud	Ø 8	mm
Ambient temperature	+10 ... +35	°C
Weight per specimen grip, approx.	281	g
Scope of delivery	1	pieces

Pneumatic specimen grips type 8097

Item No.	1106823	
Type	8097	
Operating principle/identification	Opposing jaw with stepped and stepless adjustment	
Test load F_{max}	0.5	kN
Operating pressure	1 ... 10	bar
The operating pressure depends on the upstream components.		
Gripping force at 3 bar	0.330	kN
Gripping force at 10 bar	1.313	kN
Opening width with jaws, 5 mm thickness ¹⁾	20	mm
Gripping travel of pneumatically operated side	10.5	mm
Gripping of the specimen	The specimen must be gripped with at least 2/3 of the jaw height.	
Dimensions		
Height	95	mm
Installation height	120	mm
Width	242	mm
Depth	60	mm
Depth with connection unit	86	mm
Connection, hole	Ø 20	mm
Weight per specimen grip, approx.	1.5	kg
Ambient temperature	+10 ... +35	°C
Scope of delivery	1	piece(s)

¹⁾ The opening width is the result of using jaws with 5 mm jaw thickness.

Product Information

ISO 11040-4/-6 Annex G3 - Pull-off force of Luer lock rings

Accessories required

Jaws (1 x required)

Item No.	Specimen thickness [mm]	Ambient temperature [°C]	Scope of delivery [pieces]
3003408	Ø 12 to 35	-15 to +40	1 pair = 2
3003407	Ø 5 to 12	-15 to +40	1 pair = 2

Spacers (1x required)

Description	ArticleNumber
Spacers, height 20 mm, for increasing the free space between jaw and grip body. Scope of delivery 2 pieces. 2 pieces required per grip. ¹⁾	316559

1) For convenient operation

Pneumatic control unit (1x required)

The pneumatic control units can be used with testXpert III V1.7 (from 14.12.2022) and testControl II V8.62.

Description	ArticleNumber
Pneumatic control unit or	1108557
Pneumatic control unit with clamping pressure preselection via testXpert III testing software	1108559

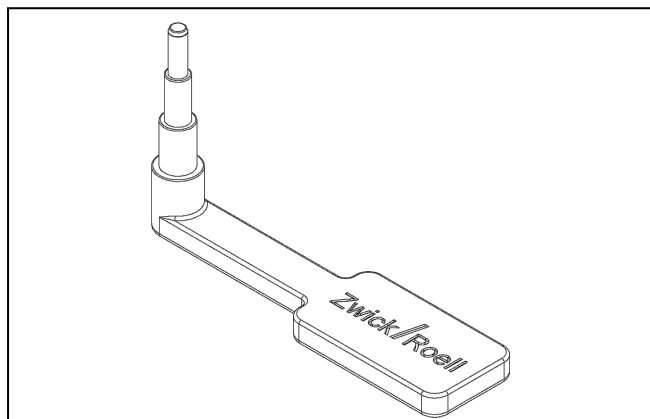
Pneumatic hoses (1x required)

Description	ArticleNumber
Set of pneumatic hoses for connecting a pair of pneumatic grips	1112640

Optional accessories

Description	ArticleNumber
Holder For Inserting Prefilled Syringes into Pneumatic Grips (e.g. ISO 11040 Annexes G1, G3, G6) - The insertion aid enables easy insertion of the syringes into the specimen grip, without risk of pinching or injury. - The holder is suitable for prefilled syringes in sizes 0.5 ml, 1.0 ml, 1.5 ml and 5 ml	1075238

CTA: 254217



Holder For Inserting Prefilled Syringes

All data at ambient temperature.

Subject to change in the course of further development.