

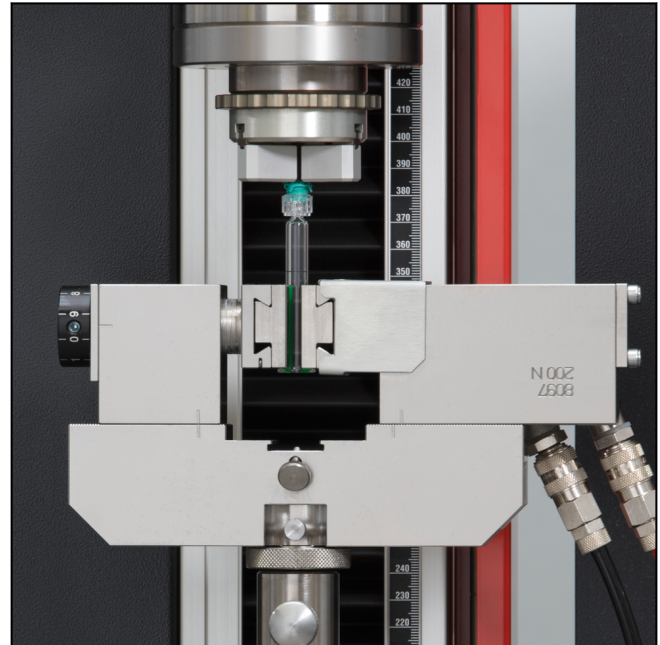
Product Information

ISO 11040-4 Annex G5 – Luer Lock Rigid Tip Cap Unscrewing Torque

CTA: 248149 248148



Test arrangement with pneumatic grips and 3-jaw chuck



Detail view with gripped Luer lock tip cap

Applications

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

The unscrewing torque of a Luer lock rigid tip cap is measured in Annex G5 of the standard.

To perform the test, the glass syringe is gripped with the Fmax 200 N lower pneumatic grip. The Luer lock ring is twisted onto the glass syringe using the 3-jaw chuck. The test speed is 20 1/min.

The expected torque range is 35 Ncm.

The test evaluation contains the following information:

- Sampling rate
- Test speed
- Maximum torque
- Maximum force
- Number of specimens
- Number of pass/fail specimens
- Possible deviations

Advantages and features

- Versatile pneumatic grip that can also be used for Annex G1, G3, G4 and G6
- Rubberized round jaws for secure gripping at low gripping pressure
- Secure gripping of sensitive specimens through adjustable gripping pressure

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Technical data

3-jaw chuck Item No.	For specimen grip type 8097 1037579	
Test load F _{max}	100	N
Number of jaws	1	set
Jaw bonding	Rubber	
Base body		
Dimensions	Ø 90	
Material (chuck)	Cast steel	
Gripping area	Ø 2 ... 25 mm	
Connection, stud	Ø 20	mm
Ambient temperature	-40 ... +70	°C
Weight, approx.	2	kg
Scope of delivery	1	piece

Pneumatic grips type 8097, F_{max} 200 N

Type Item No.	8097 1063630	
Operating principle/identification	Opposing jaw adjustable steplessly and in steps	
Test load F _{max}	0.5	kN
Gripping force at 3 bar, max.	0.330	kN
Gripping force at 10 bar, max.	1.313	kN
Operating pressure	1 ... 10	bar
Dimensions		
Height	95	mm
Installation height	120	mm
Width	242	mm
Depth	60	mm
Depth with connection unit	104	mm
Gripping travel of pneumatically operated side	10.5	mm
Opening width, max. with jaws ¹⁾	20	mm
Gripping of the specimen	The specimen must be gripped with at least 2/3 of the jaw height.	
Weight per specimen grip, approx.	1.5	kg
Connection, stud	Ø 20	mm
Ambient temperature	+10 ... +35	°C
Scope of delivery	1	pieces

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

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Accessories required

Software

Description	Item number
testXpert III Standard-Prüfvorschrift für Prüfungen an Luer Lock Verschlusskappen gemäß ISO 11040-4, Anhang G.5	3004916

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)¹⁾

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

Pneumatic control unit

Description	Item number
Pre-selectable closing force, control via manual switch	057427

¹⁾ For convenient operation