Clip fix tool AGTC

FESTO

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Key features

At a glance

Principle

The clip fix tool AGTC is a pneumatic mounting device for clips of different designs.

Pressing the clip fix tool with attached clip adapter[1] and clip against the chosen mounting position (hole or pin) triggers a mounting pulse in the clip fix tool. The clip is fixed via the mounting pulse. The operating pressure level set determines the strength of the mounting pulse. A specific clip adapter[1] is required for mounting different clips.
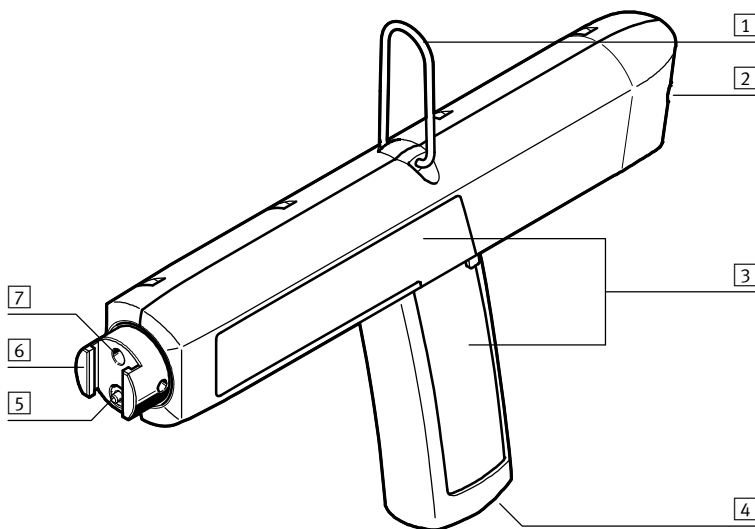
- ▐ - Note

The clip fix tool must not be used:
– for fitting rivets, nails, screws or other similar parts
– in potentially explosive areas
– on construction sites
– in the production of foodstuffs, cosmetics or pharmaceuticals
– outdoors or in areas that are exposed to moisture
– on scaffolding or ladders

1) The clip adapter is not included in the scope of delivery.

Overview

| 1 | Clip on first mounting option |
2	Second mounting option (for clip)
3	Gripping surfaces
4	Supply port G¼
5	Pressure piece with locating pin for fixing the clip adapter
6	Interface for clip adapter
7	Hole for optional fixing of the clip adapter

Clip adapter

Matching clip adapters 1 for the clip must be manufactured by the operator.

The following specifications for the clip adapter must be observed:
– as light as possible (maximum 50 g)
– made of plastic (e.g. PA, PBT or POM; optionally glass fibre reinforced)
– sufficient clamping force of the clip when attaching it to the clip adapter (does not fall out on its own accord)
– minimum possible play with respect to the interface. Dimensions of interface → 4
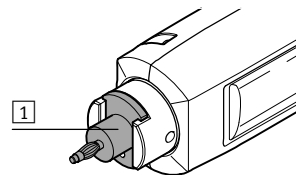
Handling

Connecting compressed air:
Using tubing, connect the clip fix tool to the supply port with a pressure regulator.
Then set the appropriate operating pressure at the pressure regulator for mounting the clip (maximum 6 bar).

Operation:
Press the clip fix tool with the attached clip against the mounting position at right angles to the mounting surface and actuate it. A mounting pulse is triggered and the clip is fixed.

→ Internet: www.festo.com/catalogue/...

Subject to change – 2017/06
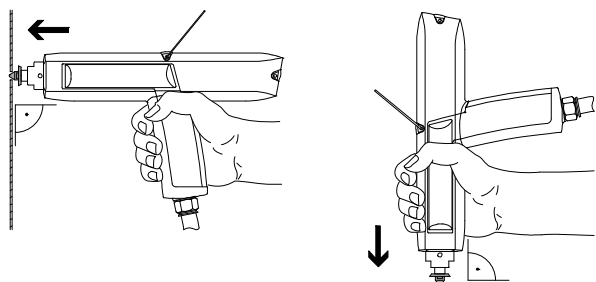
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Technical data

- ⏚ - Operating pressure
  2 ... 6 bar

- 🌡 - Temperature range
  5 ... 40 °C

General technical data		
Pneumatic port 1		G¼ female thread
Tool holder		T-slot with pressure piece
Valve function		3/2-way valve, closed, monostable
Type of actuation		Mechanical
Max. tightening torque	[Nm]	15
Product weight	[g]	750

Operating and environmental conditions		
Operating pressure	[bar]	2 ... 6
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium		Lubricated operation not possible
Ambient temperature	[°C]	5 ... 40
Temperature of medium	[°C]	5 ... 40
Corrosion resistance class CRC[1]		1
CE marking (see declaration of conformity)		To EC Machinery Directive

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
   Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Materials	
Housing	Reinforced PA, TPE-S
Tool holder	High-alloy steel
Connecting thread	Anodised wrought aluminium alloy
Clip	Stainless spring steel
Note on materials	RoHS compliant

Mounting pulse (impact energy) E as a function of operating pressure p1
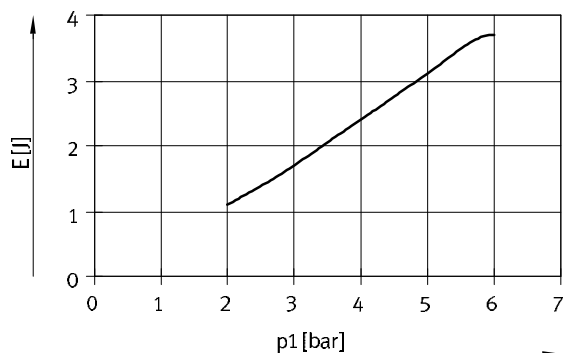
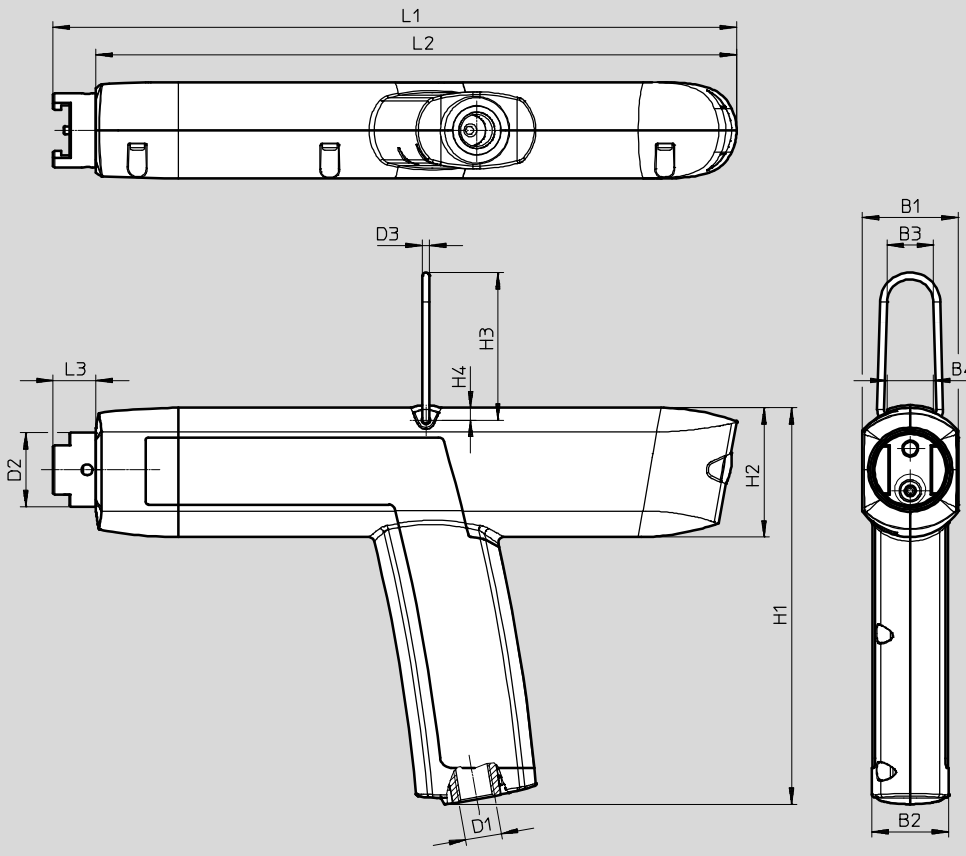The resulting mounting pulse has a tolerance of ±20%

Dimensions

B1	B2	B3	B4	D1	D2 ∅ −0.2	D3 ∅	H1	H2	H3	H4	L1	L2	L3
35	28	17	17	G¼	27	2.5	144.3	47	53.7	4.5	247.7	233.1	14.6

Dimensions – Interface for clip adapter

To fix the clip adapter in place, it needs a hole for receiving the locating pin (dimension D3). To mount the clip adapter, press it against the locating pin of the pressure piece. Then slide the clip adapter into the T-slot of the interface until the locating pin latches into the drill hole.

The interface also includes a drill hole with a diameter of 5 mm (dimension D2). An additional tool fixture (threaded pin) can be attached to this hole.
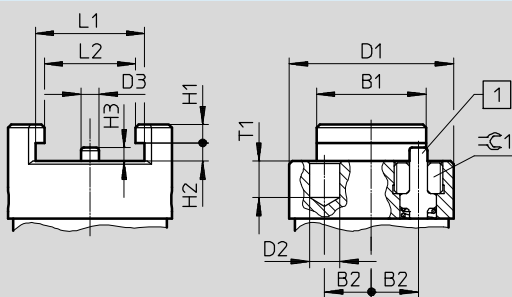
1 Spring-loaded pressure piece with locating pin

B1	B2 ±0.05	D1 ∅ −0.2	D2 ∅ H11	D3 ∅	H1	H2 H10	H3	L1 H9	L2	T1	⌖ 1
18	7.7	27	5	3	3	3	2.2	18	15	6	3

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Ordering data

Ordering data		
Scope of delivery	Part No.	Type
Without accessories	**2927782**	**AGTC-T-SG-1**
In the systainer with accessories – Spiral plastic tubing PUN-10X1,5-SG-2,4-BL-1/4 (part no.: 533463) – Push-in fitting NPQH-D-G14-Q10-P10 (part no.: 578343) – Push-in L-fitting NPQH-L-G14-Q10-P10 (part no.: 578285) – Quick coupling plug KS4-1/4-I (part no.: 531678)	**2927784**	**AGTC-T-SG-1+Z1**

Ordering data – Accessories						
Spiral plastic tubing PUN-10X1,5-SG						
Number of windings	Working length [m]	Block length [m]	Weight [g]	Colour	Part No.	Type
21	2.4	0.889	180	Blue	**533463**	**PUN-10X1,5-SG-2,4-BL-1/4**
50	4.8	1.165	340		**533464**	**PUN-10X1,5-SG-4,8-BL-1/4**
66	6	1.317	430		**533465**	**PUN-10X1,5-SG-6-BL-1/4**