

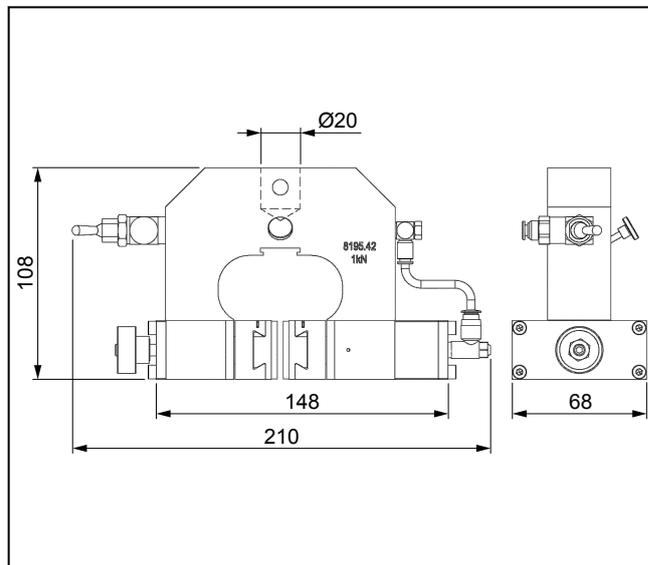
## Product Information

Pneumatic grips type 8195, Fmax 1 kN, with integrated control valve

CTA: 300181 283146



Pneumatic grips type 8195, Fmax 1 kN, with integrated control valve



Pneumatic grips type 8195, Fmax 1 kN, with integrated control valve, general view

### Applications

- Specimen material:  
metals, plastics, textiles, paper, non-wovens, elastomers
- Specimen shape:  
round and flat specimens, films/foils, asymmetrical specimens
- Type of loading:  
tensile, compression, alternating load

### Function description

The pneumatic grips are single actuator specimen grips. The grips are opened and closed pneumatically and also the gripping force before the test is applied pneumatically via a toggle valve on the specimen grips.

No additional pneumatic control unit is required, however one can be used alternatively.

The opposing jaw features stepless adjustment.

### Advantages and features

- Constant pneumatic pressure allows even specimens prone to shrinkage to be held securely.
- Constant gripping force enables repeatable test results to be achieved.
- The jaws can be changed quickly and easily for different applications - no tools required. The jaws are centered automatically.
- Precise test results combined with high number of cycles achieved through centric insertion of specimen using easily adjustable centering stop.
- Grips operated via toggle lever for fast, easy specimen changes.
- Adjustable opposing jaw for fast, easy testing, including joined (asymmetrical) specimens
- Ergonomic, open design for fast, easy specimen insertion and clamping

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### Technical data

Item No.	1106779	1106778	
Type	8195	8195	
Operating principle/identification	With integrated control valve	With integrated control valve	
Test load F <sub>max</sub>	1	1	kN
Operating pressure	1 ... 10	1 ... 10	bar
The operating pressure depends on the upstream components.			
Gripping force at 6 bar	1	1	kN
Gripping force at 10 bar	1.7	1.7	kN
Opening width with jaws, 5 mm thickness <sup>1)</sup>	6	6	mm
Gripping travel of pneumatically operated side	4	4	mm
Adjustment path of the manually operated side	4	4	mm
Gripping of the specimen	The specimen must be gripped with the entire height of the jaw.		
Dimensions			
Height	108	108	mm
Width	148	148	mm
Width with hand wheel/pneumatic unit	210	210	mm
Depth	68	68	mm
Connection, hole	Ø 8	Ø 20	mm
Weight per specimen grip, approx.	1.3	1.46	kg
Ambient temperature	+10 ... +35	+10 ... +35	°C
Scope of delivery	2	2	piece(s)
Pneumatic connection	DN7 quick action coupling		

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

### Accessories required

#### Pneumatic hoses (1x required)

Description	ArticleNumber
Set of pneumatic hoses for connecting a pair of pneumatic grips; including hose guiding for strain relief	<b>1112640</b>

### Jaws

Jaws type 8287 with gripping area 30 x 60 mm are recommended.

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### Optional accessories

#### Centering stop and Insertion aid

Description	ArticleNumber
Centering stops for centered clamping of flat and round specimens (0 - 60 mm), adjustable to scale, specifically for Type 8195 pneumatic grips, Fax 1 kN, with integrated control valve and 8mm connection diameter. Scope of delivery: 2 pieces	<b>324849</b>
Centering stops for centered clamping of flat and round specimens (0 - 60 mm), adjustable to scale for connection diameter 20mm. Scope of delivery: 2 pieces	<b>316355</b>
Insertion aid for centered clamping of ropes/wire/threads. Can only be used with jaws with max. height 30 mm. Specifically for Type 8195 pneumatic grips, Fax 1 kN, with integrated control valve. Scope of delivery: 2 pieces	<b>324912</b>

#### Pressure amplifier

Description	ArticleNumber
Pressure amplifier for increasing operating pressure, max. input pressure 10 bar, pressure ratio 1:2, flow rate 900l/min, output pressure 2 - 10 bar. For installation in control unit line.	<b>315016</b>
Pressure amplifier for increasing operating pressure, max. input pressure 10 bar, pressure ratio 1:2, flow rate 400l/min, output pressure 2 - 20 bar. For installation in control unit line.	<b>315018</b>