

SP149 Pneumatic Grip 2.2 kN

Symmetric clamping action. Dual-action for self-centring of the specimen which allows a quick and easy loading.

Each grip is supplied with a specimen alignment device, which can be mounted directly on the jaws.

Ordering information

SP149 are supplied in pairs, but can also be ordered as single grip (0.5 pair).
Jaw faces need to be ordered separately.



Item number	SP149
Clamping force	2.2 kN / 7 bar - max 5 kN / 16 bar
Stroke	6 mm
Temperature range	0°C ... +70°C (Further temperature ranges on request (max. +180°C))
Body	Aluminium, anodized
Pneumatic connection	Internal thread coupling 1/8"
Weight	1.21 kg each grip (without jaws)

Jaws for SP149:

Scope of delivery: 1 set = 4 jaws

Jaws faces with other dimensions and surface coatings are available on request



SP149-BD



SP149-BG

Item-No.	Surface	Clamping surface H x W	Opening with SP149-Z6* rod	Opening with SP149-Z11* rod	Weight per pair
SP149-B	Blank jaws	30 x 50 mm	0 – 6 mm	4 – 11 mm	0.22 kg
SP149-BG	Rubber-coated jaws	30 x 50 mm	0 – 4 mm	2 – 9 mm	0.22 kg
SP149-BP	Pyramid (serrated) jaws	30 x 50 mm	0 – 6 mm	4 – 11 mm	0.22 kg
SP149-BV	V-jaws	Height 30 mm	4 – 6 mm Ø	7 – 11 mm Ø	0.18 kg
SP149-BW	Wave jaws	30 x 50 mm	0 – 6 mm	4 – 11 mm	0.20 kg
SP149-BD	Diamond-coated jaws	30 x 50 mm	0 – 6 mm	4 – 11 mm	0.22 kg

*SP149-Z6 and SP149-Z11 rods are included in the price of the grips

Insert jaws for SP149:

For a quick insert jaw change, a carrier is needed (SP149-GT)

Scope of delivery: 1 set = 4 jaws

Jaws faces with other dimensions and surface coatings are available on request



SP149-GT



SP149-EBP

Item-No.	Surface	Clamping surface H x W	Opening with SP149-Z6*	Opening with SP149-Z11*	Weight per pair
SP149-GT	Carrier				0.12 kg
SP149-EB	Blank insert jaws	30 x 50 mm	0 – 4 mm	4 – 9 mm	0.14 kg
SP149-EBG	Rubber insert jaws	30 x 50 mm	0 – 2 mm	2 – 7 mm	0.14 kg
SP149-EBP	Pyramid insert jaws	30 x 50 mm	0 – 4 mm	4 – 9 mm	0.13 kg
SP149-EBV	V-jaws	Height 30 mm	3 – 4 mm Ø	4 – 9 mm Ø	0.13 kg
SP149-EBW	Wave jaws	30 x 50 mm	0 – 4 mm	4 – 9 mm	0.12 kg
SP149-EBD	Diamond jaws	30 x 50 mm	0 – 4 mm	4 – 9 mm	0.14 kg

*SP149-Z6 and SP149-Z11 rods are included in the price of the grips

Jaw surfaces



Blank jaws

- Suitable for own further treatments
- Steel blanks without coating



Rubber jaws

- 1 mm rubber coating (NBR)
- Nickel-plated



Pyramid jaws

- Pyramids 1.2x45
- Hardened steel 58HRC
- Nickel-plated



V-jaws

- For all round samples
- Tooth pitch 1.2 mm (SP149-BV) or 1 mm (SP149-EBV)
- Hardened steel 58HRC
- Nickel-plated



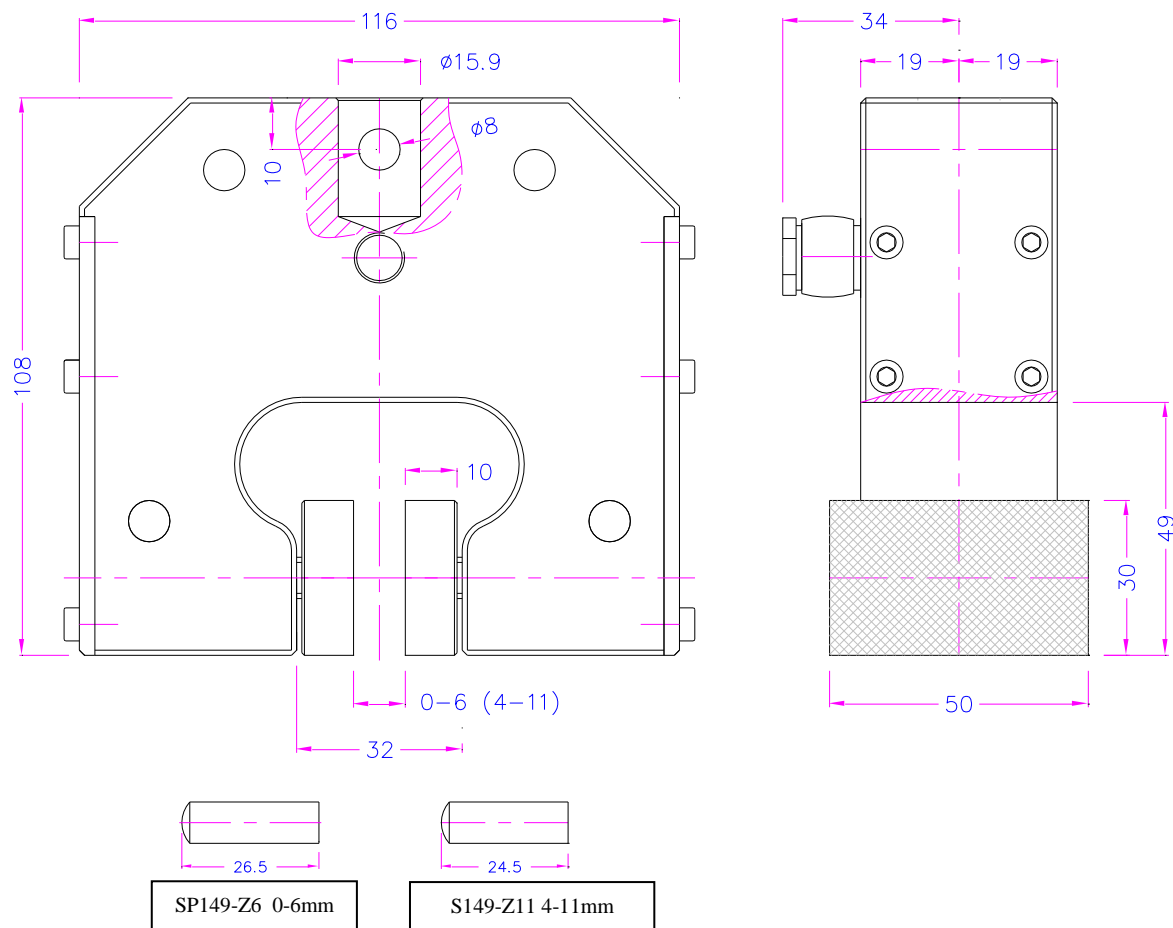
Wave jaws

- For flexible materials
- Wave 5 mm
- Hardened steel 58HRC
- Nickel-plated



Diamond jaws

- Clamping surface coated with synthetic diamonds
- Nickel-plated



Pneumatic accessories:



SP205-1 Foot pedals

None-locking: The grip jaws open by pressing the foot pedal and close after removing the foot from the pedal.

Scope of delivery: 1 pair of foot switches including tubes and fittings



SP205-2 Foot pedals

With locking function: The grip jaws open by pressing the foot pedal and remain opened after removing the foot from the pedal. The jaws close by pressing the pedal one more time.

Scope of delivery: 1 pair of foot switches including tubes and fittings



SP205-PR16bar Pressure regulator

Optional for SP205-1 or SP205-2

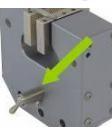
To adjust air pressure: 1-16 bar



SP205-3 Hand switches

With locking function: The jaws of the grip close by pulling the handle and remain closed. The jaws open by pushing the handle back.

Scope of delivery: 1 unit of hand switches including tubes and fittings



SP205-4-1/8'' Pneumatic micro-hand switches

Pneumatic micro – hand switches with 1/8" connection, tubes and fittings

With locking function: The hand switches are directly installed at the grips, 3/2 directional valve. Only for single action rods with spring inside.

Scope of supply: 2 hand switches including tubes and fittings

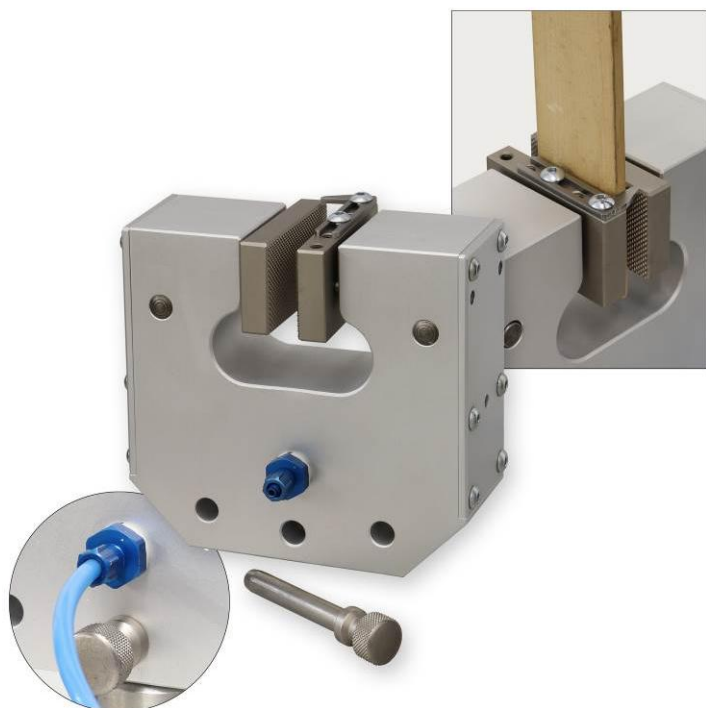


SP216 Silent compressor for laboratories, oil-lubricated, with pressure reducer

Max pressure 16 bar; 230 V/50 HZ; noise level: 38 dB(A)

Motor: 0.13 kW; displacement: 17 l/min; tank size 3.5 l

Dimensions: 340x290x340 mm (L x W x H); weight 18 kg



Examples for customized solutions:



SP149+V+2R



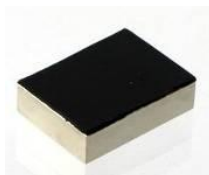
SP149+V+2R



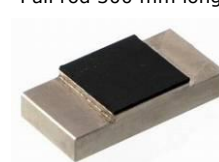
SPS521-158-300
Pull rod 300 mm long



SP149-BG20x50
Height 20 mm x Width 50 mm



SP149-BG30x40
Height 30 mm x Width 40mm



SP149-BG25x25
Height 25 mm x Width 25 mm Grab test



Height 30 mm x Width 200 mm – small
pyramids 0.7x45



SP149-BWC
Wave jaws with cooling hole
ASTM-D4073 and ASTM-D5147