

Three-jaw gripper sealed and rust-resistant

GD46/GD70/GD110/GD160

things worth knowing

Advantages and uses

... sealed gripper with precise round guides ...
... compact construction with low weight ...

Highlight

- ▶ centrally opening and closing
 - ▶ any desired installation position
 - ▶ high precision
 - ▶ multiple air connection possibilities
 - ▶ position sensing possible through inductive proximity switch

... rust-resistant! ...

Characteristics

Function

Drive: double-acting pneumatic cylinder
Power transfer: piston and wedge principle
Guide: sealed round guide

Material

Housing: hard-anodized aluminum
Guides & Jaws: steel nickel-plated
Screws: plated steel
Moving parts: nitrided steel

Maintenance

Recommended at: 1.5 million Cycles
Actuation: filtered high-pressure air (10 μ m), dry or oiled subsequent
Maintenance of the mechanics: – see owners' manual –

Sommer-automatic

Grippers

Separators

Swivel units

Rotating jaws

Axial compensators

Tool changers

Linear cylinders

Shock absorbers

Rotary cylinders

Air vane motors

Vacuum components

Accessories

Quick finder

Basic explanations

Terms and illustrations

Grip force safety device: required during pressure loss for maintaining position of workpiece
– pneumatic: through pressure retention (via one-way valve DSV 1/8)
Total power: arithmetic sum of the individual elements on the gripper jaws
Closing and opening time: required time for the gripper jaws to cover the maximum stroke length
Schematic: displays static forces and momenta that can additionally affect grip force

Accessories

Accessory recommendation:

- ▶ Universal jaws Page 134
- ▶ Inductive proximity switch Page 428
- ▶ Bracket for inductive proximity switch Page 432
- ▶ Pneumatic fittings Page 442
- ▶ Tubing Page 444
- ▶ Control valves Page 445
- ▶ Pressure safety valves Page 447

