

Three-point gripper with long stroke

GD1/GD10/GD50

things worth knowing

Advantages and uses

- ... long stroke with compact design ...
- ... very reliable and long service life ...

Highlight

... ideal for pieces with varying diameter! ...

- ▶ centrally opening and closing
 - ▶ any desired installation position
 - ▶ position sensing possible through inductive proximity switch

Characteristics

Function

Drive:	pneumatic rotary vane cylinders
Power transfer:	planetary gear
Guide:	round guide

Material

Housing:	hard-anodized aluminum
Moving parts:	steel

Maintenance

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

Basic explanations

Terms and illustrations

Grip force safety device:	required during pressure loss for maintaining position of workpiece
– pneumatic:	through pressure retention (one-way valve required DSV 1/8)
Total power:	arithmetic sum of the individual elements on the gripper jaws
Closing and opening times:	required time for the gripper jaws to cover the maximum stroke length

Accessories

Accessory recommendation:

▶ Stop levers	Page 372
▶ Rotation limiter & stop-stroke	Page 374
▶ Inductive proximity switch	Page 428
▶ Pneumatic fittings	Page 442
▶ Tubing	Page 444
▶ Control valves	Page 445
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