Sealed angle gripper

GG25 up to GG100

things worth knowing

Advantages and uses

… high-grip force … all models available with grip force safety device …

Highlight

- high reliability and long service life
- continuously adjustable stroke
- compact design and minimal weight
- centrally opening and closing
- high precision
- any desired installation position
- multiple air connection possibilities
- position sensing possible through inductive proximity switch

… mechanics sealed against liquid and dust! …

... rust resistant

Characteristics

Function	
Drive:	double-acting pneumatic cylinder
(depending upon model)	double-acting pneumatic cylinder with integrated spring as fail safe during pressure loss
Power transfer:	piston with cam lever linkage
Guide:	multiple ball bearing
Material	
Housing:	hard-anodized aluminum
Functional parts:	nitrided steel
Maintenance	
Recommended at:	1.5 million cycles
Actuation:	filtered high-pressure air (10μm), dry or oiled
Maintenance of the mechanics:	via integrated stroke adjustment screw – see owners' manual –

Basic explanations

Terms and illustrations

Grip force safety device:	required during pressure loss for maintaining position of work piece
– pneumatic:	through pressure retention (one-way valve required DSV 1/8)
– mechanical:	through spring pre-tension
– spring power:	specifications based on minimum spring pre-tension
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
Schematic:	displays static forces and momenta that can additionally affect grip force

Models

GG…	Drive	Internal gripping	External gripping	Grip force fail safe
…N	pneumatic	●	●	
…NC	pneumatic		●	●

Accessories

Included with purchase:

- Centering sleeves
- Bracket for inductive proximity switch

Additional accessory recommendation:

- Inductive proximity switch — Page 428
- Pneumatic fittings — Page 442
- Tubing — Page 444
- Control valves — Page 445
- Pressure safety valves — Page 447