Pivoting arm gripper

GK15N up to GK50N

things worth knowing

Highlight

Advantages and uses … high-grip force with compact design … stainless … continuously adjustable stroke …

The gripper can return “softly” to the end position using flow control without noticeable time loss, resulting in a longer service life!

… saves the robot a movement and with it, time! …

- high reliability
- integrated damping during opening
- centrally opening and closing
- any desired installation position
- multiple air connection possibilities
- position sensing possible through inductive proximity switch

Characteristics

Function	
Drive:	double-acting pneumatic cylinder
Power transfer:	piston and toggle linkage
Guide:	heavily loadable slide bearing
Material	
Housing:	hard-anodized aluminum
Functional parts:	hard nickeled steel
Maintenance	
Recommended at:	1.5 million cycles
Actuation:	filtered high-pressure air (10 µm), 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
– mechanical:	through the toggle linkage
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

Accessories

Accessory recommendations:

- Bumper blocks — Page 154
- 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