

Three-jaw gripper with T-slot guide

Features

- 1 Stroke
- 2 Hole for socket head screw
- 3 Lubricating nipple (on the back)
- 4 Removable centering sleeves
- 5 Spring-loaded trip dogs
- 6 Trip dog setscrew
- 7 Sensor mount
- 8 Air connection at the front

(alternatively at the rear and bottom)

Accessories

- **10** Universal jaws
- **11** Proximity switch, plug-in
- 12 Cable, plug-in
- 13 One-way valve
- 14 PU-hose

The final tests...

...have long been passed and in several respects the winner is: The T-slot guide. That's traditional mechanical engineering! Rugged and dependable in each direction.

All types are made from hard-coated aluminum and have hardened and ground T-slot steel jaws like chucks, providing maximum resistance to twisting loads and moments. We offer the first 6 sizes in up to 7 different models: with springs (for self-locking, opening and closing) and without springs. Except for the 2 smallest sizes, each is available in a hydraulic version with 30 bar operating pressure.

All jaws have a lubricating nipple on the front. Lubrication is required after one million operations. (Of course, it's possible to do without, but a little grease won't hurt...) The centering sleeves on the jaws ensure a precise mounting of the jaws, which is important if jaws are changed often. For this case, we also can supply universal jaws made of steel and aluminum. For more details, see "Accessories". The pneumatic ports for opening and closing are located on the front and bottom. At the bottom, the ports are closed with grub screws and can be used for hoseless connections.

For sensing, we have come up with something very special: Under two of the three jaws, there are spring-actuated trip dogs, which can be adjusted precisely and infinitely with a screw. The adjustment can be fixed with the grub screws located on the side of the jaws. 8 mm sensor mounts are located below the trip dogs, allowing optimum mounting of proximity switch "NJ 8-E2". For more details on the proximity switch and other accessories, see the accessory pages.

Explanations

The following abbreviations mean:

Opening / closing by spring:

- NO = Standard design, self-locking, spring opening (long stroke – normal force)
- NC = Standard design, self-locking, spring closing (long stroke - normal force)
- **SC** = Heavy-duty design, self-locking, spring closing (short stroke – large force)
- **S0** = Heavy-duty design, self-locking, spring opening (short stroke – large force)

Without spring:

- N = Standard design, (long stroke – normal force)
- **S** = Heavy-duty design (short stroke - large force)

Hydraulic version:

NH = Standard design,, hydraulic up to 40 bar (long stroke - large force)

things	worth knowing					M	
Advanta	ades and uses					2 4	
high-	grip force in com	bination	with robu	ust T-slot quide	all versions	ZHighlight	
available	with grip force fa	ail safe .	high re	eliability and long	service life	405	
comp;	act design and mini	mal weig	ht		large select	tion of variations!	
	centrally openi	ng and cl	osing		in in ge coree		
	high	precision	desired i	nstallation position			
		,,	► ma	iny air connection	possibilities		
				position set	nsing possible throug	h inductive proximity switch	
Charact	teristics						
Function							
Drive: de		doubl	double-acting pneumatic cylinder with integrated spring				
(depending upon model)		as me	as mechanical grip force fail-safe				
Power tra	insfer:	wedg	e and pis	on principle			
(dependir	ıg on model)	Tolot	auido for	high moment abo	aration from all aidea		
Material		1-5101	guide ioi	nigh moment abso	orphon non an slues		
Housing:		hard-	anodized	aluminum			
Moving p Maintena	arts:	nitrid	ed steel				
Recomme	ended at:	1.5 m	illion cycl	es			
Actuation	:	clean	environm	ent – filtered high-	-pressure air (10 μ m),	dry or oiled	
of the me	nce chanics:	via in	teorated I	ubrication nipple –	see owners' manual	-	
Rasic o	volgenations						
ierms a	and illustration	S					
Grip force	e safety device:	requir	red during	pressure loss for	maintaining position of	of workpiece	
– pneuma	atic/hydraulic:	through	through pressure retention (one-way valve required DSV 1/8)				
– mechar	nical:	throug	gh spring	pre-tension			
- spring power:			Specifications based on minimum spring pre-tension				
Closing and oppning times:			anument sum of the minurular elements on the maximum stroke length				
	nu opening umes.	requi	eu unie i	or the gripper jaws			
IVIOCIEIS	Drivo	Stroke	Dowor	Internal arigning	External arigning	Machanical fail acfo	
N	pneumatic	large	normal			שבטומוועמו ומוו־סמול	
NC	pneumatic	large	normal		•	•	
NO	pneumatic	large	normal	•		•	
NH	hydraulic	large	normal	•	•		
S	pneumatic	short	hiah	-	•	•	
SO	pneumatic	short	high	•		•	
						6	
	ories			-			
Included	with purchases						Par III
 Center 	ing sleeves						
Addition	al accessory reco	mmendat	ion:	B			
 Inductive proximity switch Pneumatic fittings 				Page 428 Page 442			
 Tubing 	and manyo			Page 444	1		
Control valves				Page 445			
	re satety valves			Page 447	the second se		