



## **Data sheet**

Stroke per gripper jaws 7 mm  Max. replacement accuracy 0.2 mm  Max. angular gripper jaw backlash ax, ay 0 deg  Max. gripper jaw backlash Sz 0 mm  Rotationally symmetrical 0.2 mm  Repetition accuracy, gripper 0.02 mm  Number of gripper jaws 2  Drive system Pneumatic  Mounting position optional  Mode of operation Double-acting  Gripper function Parallel  Gripper force back-up None  Design Connection direction downwards tever Standard mounting method for gripper fingers force pilot operated motion sequence  Guide Ball guide  Position detection Via proximity switch  Variants Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectic and coils.  Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 1 bar9	Feature	Value
Max. replacement accuracy  Max. angular gripper jaw backlash sz  O deg  Max. gripper jaw backlash Sz  O mm  Repetition accuracy, gripper  Number of gripper jaws  Pneumatic  Mounting position  Mode of operation  Gripper function  Gripper function  Parallel  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connects and coils.  Operating pressure  Min. opening time at 0.6 MPa (6 bar, 87 psi)  Min. closing time at 0.6 MPa (6 bar, 87 psi)  Min. closing time at 0.6 MPa (6 bar, 87 psi)  Mounting Do year mm  O o mm  O o mm  O o deg  O mm  O o pum  D o o mm  O o mm  O o mm  O o pum  D o o mm  O o o o o mm  O o o o o mm  O o o o o o o o o o o o o o o o o o o	Size	25
Max. angular gripper jaw backlash ax, ay  Max. gripper jaw backlash Sz  O mm  Repetition accuracy, gripper  Number of gripper jaws  Drive system  Mode of operation  Gripper function  Parallel  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  Max. operating frequency of gripper  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  Min. closing time at 0.6 MPa (6 bar, 87 psi)  6 mm  Onm  Onm  Onm  Onm  One  Optional  Opuble-acting  Opubl	Stroke per gripper jaws	7 mm
Max. gripper jaw backlash Sz  Rotationally symmetrical  Repetition accuracy, gripper  Number of gripper jaws  Drive system  Pneumatic  Mounting position  Mode of operation  Gripper function  Parallel  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  1.1 MPa0.8 MPa 1.4.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  68 ms	Max. replacement accuracy	0.2 mm
Rotationally symmetrical  Repetition accuracy, gripper  Number of gripper jaws  2  Drive system  Pneumatic  Mounting position  Mode of operation  Gripper function  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide  Position detection  Variants  Wetals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  Max. operating frequency of gripper  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Max. angular gripper jaw backlash ax, ay	0 deg
Repetition accuracy, gripper  Number of gripper jaws  2  Drive system  Pneumatic  Mounting position  Mode of operation  Gripper function  Parallel  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  Operating pressure  1. bar8 bar 1. bar9 bar 1.	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws  Drive system  Pneumatic  Mounting position  Mode of operation  Gripper function  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Rotationally symmetrical	0.2 mm
Drive system       Pneumatic         Mounting position       optional         Mode of operation       Double-acting         Gripper function       Parallel         Gripper force back-up       None         Design       Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence         Guide       Ball guide         Position detection       Via proximity switch         Variants       Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.         Operating pressure       0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi         Max. operating frequency of gripper       3 Hz         Min. opening time at 0.6 MPa (6 bar, 87 psi)       79 ms         Min. closing time at 0.6 MPa (6 bar, 87 psi)       68 ms	Repetition accuracy, gripper	0.02 mm
Mounting position optional power of operation optional parallel Gripper function Parallel Scripper force back-up None Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence Ball guide Position detection Via proximity switch Variants Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper 3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi) 79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi) 68 ms	Number of gripper jaws	2
Mode of operation Gripper function Parallel Gripper force back-up None Design Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide Ball guide Position detection Via proximity switch Variants Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connecte and coils.  Operating pressure  0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper 3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi) 79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi) 68 ms	Drive system	Pneumatic
Gripper function  Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connecte and coils.  Operating pressure  0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Mounting position	optional
Gripper force back-up  Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connecte and coils.  Operating pressure  0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Mode of operation	Double-acting
Design  Connection direction downwards Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Ball guide  Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  O.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Gripper function	Parallel
Lever Standard mounting method for gripper fingers Force pilot operated motion sequence  Guide Ball guide  Position detection Via proximity switch  Variants Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper 3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi) 79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi) 68 ms	Gripper force back-up	None
Position detection  Via proximity switch  Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  O.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Design	Lever Standard mounting method for gripper fingers
Variants  Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connected and coils.  Operating pressure  0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Guide	Ball guide
excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connecte and coils.  Operating pressure  0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper  3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi)  79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Position detection	Via proximity switch
1 bar8 bar 14.5 psi116 psi  Max. operating frequency of gripper 3 Hz  Min. opening time at 0.6 MPa (6 bar, 87 psi) 79 ms  Min. closing time at 0.6 MPa (6 bar, 87 psi) 68 ms	Variants	excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors
Min. opening time at 0.6 MPa (6 bar, 87 psi)       79 ms         Min. closing time at 0.6 MPa (6 bar, 87 psi)       68 ms	Operating pressure	1 bar8 bar
Min. closing time at 0.6 MPa (6 bar, 87 psi)  68 ms	Max. operating frequency of gripper	3 Hz
	Min. opening time at 0.6 MPa (6 bar, 87 psi)	79 ms
Operating medium  Compressed air to ISO 8573-1-2010 [7-4-6]	Min. closing time at 0.6 MPa (6 bar, 87 psi)	68 ms
Compressed an to 150 657 5 1.2010 [7.4.4]	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)	Note on operating and pilot medium	
Corrosion resistance class CRC 0 - No corrosion stress	Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity VDMA24364-B2-L	LABS (PWIS) conformity	VDMA24364-B2-L

Feature	Value
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-10 °C60 °C
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	305.3 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	255.6 N
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	152.6 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	127.8 N
Mass moment of inertia	1.6 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	155.9 N
Max. torque at gripper Mx static	4.83 Nm
Max. torque at gripper My static	2.52 Nm
Max. torque at gripper Mz static	2.52 Nm
Product weight	441 g
Type of mounting	Direct mounting via through-hole Direct mounting via thread On mounting frame Via through-hole and dowel pin Via female thread and dowel pin Either:
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy stainless steel