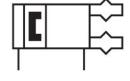
Parallel gripper DHPC-32-A-S Part number: 8116881



Data sheet

Stroke per gripper jaw 11 mm Max. interchangeability 0.2 mm Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash Sz 0 mm Rotational symmetry 0.2 mm neumatic gripper repetition accuracy 0.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Siripping force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Position sensing For proximity sensor Ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa 14.5 psi116 psi Max. operating frequency of pneumatic gripper 11 ms Min. closing time at 6 bar 107 ms Operation griduent and pilot media Operation with oil lubrication possible (required for further use)	Feature	Value
Max. interchangeability 0.2 mm Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash 5z 0 mm Rotational symmetry 0.2 mm Pneumatic gripper repetition accuracy 0.02 mm Vumber of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Sirpper force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Position sensing For proximity sensor Ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa Max. operating frequency of pneumatic gripper 1Hz Min. opening time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] normating medium Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Size	32
Max. gripper jaw angular play ax, ay 0 deg Max. gripper jaw backlash Sz 0 mm Sotational symmetry 0.2 mm Pneumatic gripper repetition accuracy 0.02 mm Vumber of gripper jaws 2 Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Sirpper function Parallel Sirpper function Parallel Sirpper force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Solide Ball guide Positively driven motion sequence Double-acting type for gripper fingers Solide Ball guide Positively driven motion sequence Double-acting type for gripper fingers Solide Ball guide Positively driven motion sequence Double-acting type for use, Exceptions are nickel by mass as main constituent are excluded from use, Exceptions are nickel in steel, chemically nickel-pilated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure 0.1 MPa0.8 MPa Max. operating frequency of pneumatic gripper 1Hz	Stroke per gripper jaw	11 mm
Max. gripper jaw backlash Sz 0 mm Rotational symmetry 0.2 mm Pneumatic gripper repetition accuracy 0.02 mm Vumber of gripper jaws 2 Actuator system Pneumatic Mounting position Any Wode of operation Double-acting Sripper function Parallel Sripper function Parallel Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Positively driven motion sequence Standard mounting type for gripper fingers Solide Ball guide Postively driven motion sequence Standard mounting type for gripper fingers Solide Ball guide Positively driven motion sequence Standard mounting type for gripper fingers Position sensing For proximity sensor /ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa Max. operating frequency of pneumatic gripper	Max. interchangeability	0.2 mm
Outside Symmetry 0.2 mm Pneumatic gripper repetition accuracy 0.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mode of operation Double-acting Sripper function Parallel aripping force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor Ariants Metal swith 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 connectors and coils. Deperating pressure 0.1 MPa0.8 MPa Muin. opening time at 6 bar 107 ms Operation gime at 6 bar 107 ms Operation gript medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation prossible (required for further use) Opring medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. gripper jaw angular play ax, ay	0 deg
Deneumatic gripper repetition accuracy 0.02 mm Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Wode of operation Double-acting Sripper function Parallel Gripping force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Suide Ball guide Position sensing For proximity sensor /ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi Max. operating frequency of pneumatic gripper 114 ms Win. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws 2 Actuator system Pneumatic Mounting position Any Wode of operation Double-acting Sripper function Parallel Structural design Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Position sensing For proximity sensor Ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi Max. operating frequency of pneumatic gripper 1Hz Win. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Operation resistance class (CRC) 0 - No corrosion stress	Rotational symmetry	0.2 mm
Actuator system Pneumatic Mounting position Any Mode of operation Double-acting Sripper function Parallel Gripping force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Saude Ball guide Position sensing For proximity sensor /ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi Max. operating frequency of pneumatic gripper 1 Hz Win. closing time at 6 bar 107 ms Operation mediam Operation with oil lubrication possible (required for further use) Operation resistance class (CRC) 0 - No corrosion stress	Pneumatic gripper repetition accuracy	0.02 mm
Mounting position Any Mounting position Double-acting Sripper function Parallel Sripping force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor /ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi Wax. operating frequency of pneumatic gripper 1 Hz Win. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Number of gripper jaws	2
Mode of operationDouble-actingSripper functionParallelSripping force backupWithoutStructural designConnection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequenceSuideBall guidePosition sensingFor proximity sensor/ariantsMetals 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 connectors and coils.Operating pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMax. operating frequency of pneumatic gripper1 HzWin. closing time at 6 bar107 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use) Orrosion resistance class (CRC)0 - No corrosion stress0 - No corrosion stress	Actuator system	Pneumatic
Stripper function Parallel Stripping force backup Without Structural design Connection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequence Ball guide Position sensing For proximity sensor /ariants 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 connectors and coils. Operating pressure 0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psi Max. operating frequency of pneumatic gripper 1 Hz Win. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Mounting position	Any
Stripping force backupWithoutStructural designConnection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequenceSuideBall guidePosition sensingFor proximity sensor/ariantsMetals 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 connectors and coils.Operating pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMax. operating frequency of pneumatic gripper1 HzWin. closing time at 6 bar107 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)0 - No corrosion stress	Mode of operation	Double-acting
Structural designConnection direction at side Lever Standard mounting type for gripper fingers Positively driven motion sequenceGuideBall guidePosition sensingFor proximity sensor/ariantsMetals 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 connectors and coils.Operating pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMax. operating frequency of pneumatic gripper1 HzWin. closing time at 6 bar107 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)0 - No corrosion stress	Gripper function	Parallel
Lever Standard mounting type for gripper fingers Positively driven motion sequenceSuideBall guidePosition sensingFor proximity sensor/ariantsMetals 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 connectors and coils.Operating pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMax. operating frequency of pneumatic gripper1 HzWin. closing time at 6 bar107 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Orrosion resistance class (CRC)0 - No corrosion stress	Gripping force backup	Without
Position sensingFor proximity sensor/ariantsMetals 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 connectors and coils.Operating pressure0.1 MPa0.8 MPa 	Structural design	Lever Standard mounting type for gripper fingers
AriantsMetals 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 connectors and coils.Operating pressure0.1 MPa0.8 MPa 	Guide	Ball guide
excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.Operating pressure0.1 MPa0.8 MPa 1 bar8 bar 14.5 psi116 psiMax. operating frequency of pneumatic gripper1 HzWin. opening time at 6 bar114 msWin. closing time at 6 bar107 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)0 - No corrosion stress	Position sensing	For proximity sensor
1 bar8 bar 14.5 psi116 psiMax. operating frequency of pneumatic gripper1 HzWin. opening time at 6 bar114 msWin. closing time at 6 bar107 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)0 - No corrosion stress	Variants	excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors
Win. opening time at 6 bar 114 ms Min. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Operating pressure	1 bar8 bar
Win. closing time at 6 bar 107 ms Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Max. operating frequency of pneumatic gripper	1 Hz
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Min. opening time at 6 bar	114 ms
nformation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 0 - No corrosion stress	Min. closing time at 6 bar	107 ms
Corrosion resistance class (CRC) 0 - No corrosion stress	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
ABS (PWIS) conformity VDMA24364-B2-L	Corrosion resistance class (CRC)	0 - No corrosion stress
	LABS (PWIS) conformity	VDMA24364-B2-L

FESTO



Feature	Value
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition 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, circuit boards, cables, electrical plug connectors and coils
Ambient temperature	-10 °C60 °C
Gripping force per gripper jaw at 6 bar, opening	493.7 N 246.9 N
Gripping force per gripper jaw at 6 bar, closing	442.6 N 221.3 N
Mass moment of inertia	5.54 kgcm ²
Maximum force on gripper jaw Fz, static	246.8 N
Maximum torque on gripper jaw, Mx static	10.9 Nm
Maximum torque on gripper jaw, My static	6.29 Nm
Maximum torque on gripper jaw, Mz static	6.29 Nm
Product weight	778 g
Type of mounting	Direct mounting via through-hole Direct fastening via thread On mounting frame With through-hole and dowel pin With internal thread and dowel pin Optionally:
Pneumatic connection	M5
Note on materials	RoHS-compliant
Housing material	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel