Three-point gripper DHDS-50-A-NC Part number: 1259496







Data sheet

General operating condition

Stroke per gripper jaws 6 mm Max. replacement accuracy 50.2 mm Max. angular gripper jaw backlash sax, ay 50.2 deg Max. angular gripper jaw backlash sax, ay 50.2 deg Max. angular gripper jaw backlash sax, ay 50.2 mm Rotationally symmetrical 50.2 mm Repetition accuracy, gripper 50.04 mm Number of gripper jaws 3 Mounting position 50 optional 50 op	Feature	Value
Max. replacement accuracy Max. angular gripper jaw backlash s.x. ay 80.2 deg Max. gripper jaw backlash S.Z 80.02 mm Rotationally symmetrical Repetition accuracy, gripper 80.04 mm Number of gripper jaws 3 Mounting position Mode of operation Gripper force back-up Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Operating pressure Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Operating medium Note on operating and pilot medium Lubricated operation greating his classe CRC 1 - Low corrosion resistance class CRC 1 - Low corrosion stress Ambient temperature Max. force on gripper jaw F2 static Max. torque at gripper Mx static Lubrication interval for guide components 10 MioCyc	Size	50
Max. angular gripper jaw backlash ax, ay Max. gripper jaw backlash S2 80.02 mm Rotationally symmetrical 80.04 mm Number of gripper jaws 3 Mounting position Mode of operation Gripper function Gripper function Gripper function Gripper function Gripper function Wisper of porce back-up During closing Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Oo995947 Operating pressure 4 bar 8 bar As. Departing frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress UABS (PWIS) conformity VDMA2364-B2-L Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Max. torque at gripper Mx static 24 Nm Max. torque at gripper Mx static Max. torque at gripper Mx static 24 Nm Max. torque at gripper Mx static 10 MioCyc	Stroke per gripper jaws	6 mm
Max. gripper jaw backlash 5z Rotationally symmetrical Repetition accuracy, gripper Robustion accuracy, gripper Robustion accuracy, gripper Robustion accuracy, gripper as so .0.4 mm Repetition accuracy, gripper as so .0.4 mm Robustion accuracy, gripper jaws Robustion accuracy, gripper as so .0.4 mm Robustion accuracy, gripper gripper gripper gripper function Robustion accuracy, gripper gr	Max. replacement accuracy	≤0.2 mm
Rotationally symmetrical so.2 mm Repetition accuracy, gripper SO.04 mm Number of gripper jaws Somounting position Double-acting Gripper function Gripper function Gripper force back-up Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Operating pressure Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Sutability for the production of Li-ion batteries Max. sorge a gripper faw Fz static Amx. torque at gripper My static Max. torque at gripper My static	Max. angular gripper jaw backlash ax, ay	≤0.2 deg
Repetition accuracy, gripper Number of gripper jaws 3 Mounting position Mode of operation Double-acting Gripper function Gripper function Originate force back-up During closing Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Oo995947 Operating pressure 4 bar 8 bar Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Max. force on gripper jaw Fz static Max. torque at gripper Mx static	Max. gripper jaw backlash Sz	≤0.02 mm
Number of gripper jaws Mounting position Mode of operation Gripper function Gripper function Design Lever Force pilot operated motion sequence Position detection Symbol Operating pressure Max. operating frequency of gripper Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operating opsisible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Mex. torque at gripper Mx static Max. torque at gripper Mz static Lubrication interval for guide components 10 MioCyc Double-acting Optional Optional Optional Optional Optional Optional Opuble-acting Optional Opuble-acting Optional Opuble-acting Optional Opuble-acting Optional Opuble-acting Optional Opuble-acting Optional Optio	Rotationally symmetrical	≤0.2 mm
Mounting position Mode of operation Gripper function Gripper force back-up Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Operating pressure Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - tow corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Max. force on gripper jaw Fz static Max. torque at gripper Mx static Max. torque at gripper Mx static Max. torque at gripper My static	Repetition accuracy, gripper	≤0.04 mm
Mode of operation Gripper function Gripper force back-up During closing Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Oo995947 Operating pressure 4 bar 8 bar Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) To ms Operating medium Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 · Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Max. force on gripper jaw Fz static Max. torque at gripper Mx static Max. torque at gripper Mx static Lubricated operating A-point During dome Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) To word of the production of Li-ion batteries During medium During dome then 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils During dome then 5 of C Dur	Number of gripper jaws	3
Gripper function Gripper force back-up During closing Design Lever Force pilot operated motion sequence Position detection Via proximity switch Operating pressure Abar 8 bar Max. operating frequency of gripper 4 bar 8 bar Min. closing time at 0.6 MPa (6 bar, 87 psi) To ms Min. closing time at 0.6 MPa (6 bar, 87 psi) To ms More on operating and pilot 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) Corrosion resistance class CRC 1- Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature Soc 60°C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 24 Nm Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mx static 24 Nm Max. torque at gripper Mx static 10 MioCyc	Mounting position	optional
Gripper force back-up Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol Oo995947 Operating pressure 4 bar 8 bar Max. operating frequency of gripper s4 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature S°C 60°C Maxs moment of inertia Max. force on gripper jaw Fz static 24 Nm Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Mode of operation	Double-acting
Design Lever Force pilot operated motion sequence Position detection Via proximity switch Symbol O0995947 Operating pressure 4 bar 8 bar Max. operating frequency of gripper 4 bar 8 bar Min. opening time at 0.6 MPa (6 bar, 87 psi) 73 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 24 Nm Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper My static 10 MioCyc	Gripper function	3-point
Force pilot operated motion sequence Position detection Via proximity switch Symbol Operating pressure 4 bar 8 bar Max. operating frequency of gripper 4 bar 8 bar Min. opening time at 0.6 MPa (6 bar, 87 psi) 73 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 24 Nm Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Gripper force back-up	During closing
Symbol 00995947 Operating pressure 4 bar 8 bar Max. operating frequency of gripper 4 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 73 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 50 ms 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) Corrosion resistance class CRC 1- Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5° C 60° C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 24 Nm Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	Design	
Operating pressure 4 bar 8 bar 4 kz Min. operating frequency of gripper 54 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 73 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Position detection	Via proximity switch
Max. operating frequency of gripper 44 Hz Min. operating time at 0.6 MPa (6 bar, 87 psi) 73 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Symbol	00995947
Min. opening time at 0.6 MPa (6 bar, 87 psi) Min. closing time at 0.6 MPa (6 bar, 87 psi) Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 ° C 60 ° C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Operating pressure	4 bar 8 bar
Min. closing time at 0.6 MPa (6 bar, 87 psi) Derating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 ° C 60 ° C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper Mz static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Max. operating frequency of gripper	≤4 Hz
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) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Lubrication interval for guide components 10 MioCyc	Min. opening time at 0.6 MPa (6 bar, 87 psi)	73 ms
Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesMetals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coilsAmbient temperature5 °C 60 °CMass moment of inertia6.18 kgcm²Max. force on gripper jaw Fz static250 NMax. torque at gripper Mx static24 NmMax. torque at gripper Mz static24 NmMax. torque at gripper Mz static24 NmLubrication interval for guide components10 MioCyc	Min. closing time at 0.6 MPa (6 bar, 87 psi)	50 ms
always be required) Corrosion resistance class CRC 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 ° C 60 ° C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5°C 60°C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 10 MioCyc	Note on operating and pilot medium	
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Exceptions are printed circuit boards, cables, electrical plug connectors and coils Ambient temperature 5 °C 60 °C Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	LABS (PWIS) conformity	VDMA24364-B2-L
Mass moment of inertia 6.18 kgcm² Max. force on gripper jaw Fz static 250 N Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	Suitability for the production of Li-ion batteries	Exceptions are printed circuit boards, cables, electrical plug connectors
Max. force on gripper jaw Fz static Max. torque at gripper Mx static Max. torque at gripper My static Max. torque at gripper My static Max. torque at gripper Mz static 24 Nm Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	Ambient temperature	5 °C 60 °C
Max. torque at gripper Mx static 24 Nm Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	Mass moment of inertia	6.18 kgcm ²
Max. torque at gripper My static 24 Nm Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	Max. force on gripper jaw Fz static	250 N
Max. torque at gripper Mz static 24 Nm Lubrication interval for guide components 10 MioCyc	Max. torque at gripper Mx static	24 Nm
Lubrication interval for guide components 10 MioCyc	Max. torque at gripper My static	24 Nm
<u> </u>	Max. torque at gripper Mz static	24 Nm
Max. mass per external gripper finger 250 g	Lubrication interval for guide components	10 MioCyc
	Max. mass per external gripper finger	250 g

Feature	Value
Product weight	932 g
Type of mounting	Via female thread and dowel pin
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover cap	PA
Material housing	Hard anodised wrought aluminium alloy
Material gripper jaws	High-alloy stainless steel