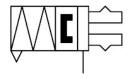
Parallel gripper DHPC-20-A-NO-Z-1 Part number: 8116827

Data sheet

Stroke per gripper jaws5 mmMax. replacement accuracy0.2 mmMax. angular gripper jaw backlash ax, ay0 degMax. angular gripper jaw backlash Sz0 mmRotationally symmetrical0.2 mmRotationally symmetrical0.02 mmNumber of gripper jaws2Drive systemPneumaticMounting positionoptionalMode of operationSingle-acting OpenGripper functionParallelGripper force back-upDuring openingDesignConnection via mounting spligot Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosting frequency of gripper3 HzMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 ps)25 msOperating mediumCompressed air to 150 8573-1:2010[7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Operating mediumCompressed air to 150 8573-1:2010[7:4:4]Abient temperature-10 °C60 °C	Feature	Value
Max. replacement accuracy 0.2 mm Max. angular gripper jaw backlash ax, ay 0 deg Max. angular gripper jaw backlash 5z 0 mm Rotationally symmetrical 0.2 mm Robustionally symmetrical 0.2 mm Number of gripper jaws 2 Drive system Pneumatic Mounting position optional Mode of operation Single-acting Open Gripper function Parallel Gripper force back-up During opening Design Connection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch Operating pressure 0.25 MPa0.8 MPa 2.5 bar B bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 29 ms Operating medium Compressed air to ISO 857.3-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Offers finder 0 - No corrosion stress LABS (PWIS) conformi	Size	20
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 Mouting position Optional Mode of operation Single-acting Open Gripper function Parallel Gripper force back-up During opening Design Connection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch Operating pressure 2.5 Man0.8 MPa 2.5 bar8 bar 36.25 psl116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 25 ms Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation opsible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L <td< td=""><td>Stroke per gripper jaws</td><td>5 mm</td></td<>	Stroke per gripper jaws	5 mm
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 Single-acting Open Open Gripper function Parallel Gripper force back-up During opening Design Connection via mounting spigot Ever Side mounting method for gripper fingers Force pilot operated motion sequence Ball guide Rostion detection Via proximity switch Operating pressure 0.25 MPa0.8 MPa 36.25 psi116 psi Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) 75 ms Min. closing time at 0.6 MPa (6 bar, 87 psi) 29 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 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient t	Max. replacement accuracy	0.2 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 Single-acting Open Gripper function Parallel Gripper function Parallel Gripper force back-up During opening Design Connection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch Operating pressure 0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 29 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 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature -10 °C60 °C	Max. angular gripper jaw backlash ax, ay	0 deg
Repetition0.02 mmNumber of gripper jaws2Drive systemPneumaticMounting positionoptionalMode of operationSingle-acting OpenGripper functionParallelGripper functionDuring openingConnection via mounting spigot LeverSingle-acting refuce to the second sec	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws 2 Drive system Pneumatic Mounting position optional Mode of operation Single-acting Open Gripper function Parallel Gripper force back-up During opening Design Connection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequence Guide Ball guide Position detection Via proximity switch Operating pressure 0.25 MPa08 MPa 2.5 bar8 bar 36.25 psi116 psi Max. operating frequency of gripper 3 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 75 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 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature -10 °C60 °C	Rotationally symmetrical	0.2 mm
Drive systemPneumaticMounting positionoptionalMode of operationSingle-acting OpenGripper functionParallelGripper force back-upDuring openingDesignConnection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Repetition accuracy, gripper	0.02 mm
Mounting positionoptionalMode of operationSingle-acting OpenGripper functionParallelGripper force back-upDuring openingDesignConnection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. closing time at 0.6 MPa (6 bar, 87 psi)75 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Number of gripper jaws	2
Mode of operationSingle-acting OpenGripper functionParallelGripper force back-upDuring openingDesignConnection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Drive system	Pneumatic
OpenGripper functionParallelGripper force back-upDuring openingDesignConnection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msOperating mediumCompressed air to ISO 8573-1:2010[7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-1 -10 °C60 °C	Mounting position	optional
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DesignConnection via mounting spigot Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Gripper function	Parallel
Lever Side mounting method for gripper fingers Force pilot operated motion sequenceGuideBall guidePosition detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Gripper force back-up	During opening
Position detectionVia proximity switchOperating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Design	Lever Side mounting method for gripper fingers
Operating pressure0.25 MPa0.8 MPa 2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Guide	Ball guide
2.5 bar8 bar 36.25 psi116 psiMax. operating frequency of gripper3 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Position detection	Via proximity switch
Min. opening time at 0.6 MPa (6 bar, 87 psi)75 msMin. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Operating pressure	2.5 bar8 bar
Min. closing time at 0.6 MPa (6 bar, 87 psi)29 msOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Max. operating frequency of gripper	3 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 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature -10 °C60 °C	Min. opening time at 0.6 MPa (6 bar, 87 psi)	75 ms
Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature -10 °C60 °C	Min. closing time at 0.6 MPa (6 bar, 87 psi)	29 ms
always be required)Corrosion resistance class CRC0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °C	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature -10 °C60 °C	Note on operating and pilot medium	
Ambient temperature -10 °C60 °C	Corrosion resistance class CRC	0 - No corrosion stress
	LABS (PWIS) conformity	VDMA24364-B2-L
Total gripping force, closing, 0.6MPa (6bar, 87 psi) 139.4 N	Ambient temperature	-10 °C60 °C
	Total gripping force, closing, 0.6MPa (6bar, 87 psi)	139.4 N

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Feature	Value
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	69.7 N
Mass moment of inertia	0.574 kgcm ²
Max. force on gripper jaw Fz static	101.3 N
Max. torque at gripper Mx static	1.43 Nm
Max. torque at gripper My static	1.3 Nm
Max. torque at gripper Mz static	1.3 Nm
Product weight	270 g
Type of mounting	Either: Direct mounting via through-hole Direct mounting via thread On mounting frame Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy stainless steel