Parallel gripper HGPP-25-A-G2 Part number: 525663

Data sheet

Stroke per gripper jaws10 mmMax. replacement accuracy0.1 mmMax. angular gripper jaw backlash ax, ay0 degMax. gripper jaw backlash Sz0 mmRotationally symmetrical0.05 mmRepetition accuracy, gripper0.02 mmNumber of gripper jaws2Drive systemPneumaticMode of operationDouble-actingGripper functionParallelGripper functionParallelGripper functionVia Hall sensorVia inductive sensorsDoumOperating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mays per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMas. torque at gripper fixed21 NmMax. torque at gripper fixed case track21 Nm	Feature	Value
Max. replacement accuracy 0.1 mm Max. angular gripper jaw backlash ax, ay 0 deg Max. gripper jaw backlash Sz 0 mm Rotationally symmetrical 0.05 mm Repetition accuracy, gripper 0.02 mm Number of gripper jaws 2 Drive system Pneumatic Mode of operation Double-acting Gripper function Parallel Gripper force back-up During closing Design Rack and pinion Position detection Via Hall sensor Wia inductive sensors Ogenation Operating pressure 5 bar8 bar Max. mass per external gripper finger 250 g 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 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature 5 °C 60 °C Max. forque at gripper jaws fastic 21 Nm Max. torque at gripper Mistatic 21 Nm	Size	25
Max. angular gripper jaw backlash ax, ay0 degMax. gripper jaw backlash Sz0 mmRotationally symmetrical0.05 mmRepetition accuracy, gripper0.02 mmNumber of gripper jaws2Drive systemPneumaticMode of operationDouble-actingGripper functionParallelGripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensorVia inductive sensorsSOperating frequency of gripper4 HzMin. opening frequency of gripper4 HzMin. opening frequency of gripper finger25 0 gOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation subjected operation will always be required)Corrosion resistance class CRC2 - Moderate corrosion stressLASS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMax. torque at gripper finger Xi Static21 NmMax. torque at gripper My static21 Nm	Stroke per gripper jaws	10 mm
Max. gripper jaw backlash Sz 0 mm Rotationally symmetrical 0.05 mm Repetition accuracy, gripper 0.02 mm Number of gripper jaws 2 Drive system Pneumatic Mode of operation Double-acting Gripper function Parallel Gripper force back-up During closing Design Rack and pinion Yoa Hall sensor Yia Hall sensor Via inductive sensors Operating pressure S bar8 bar Max. operating frequency of gripper Min. opening time at 0.6 MPa (6 bar, 87 psi) 105 ms Max. mass per external gripper finger 250 g 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 2 · Moderate corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Amss moment of inertia 16.85 kgcm ² Max. force on gripper jaw Fz static 380 N Max. torque at gripper My static 21 Nm	Max. replacement accuracy	0.1 mm
Rotationally symmetrical 0.05 mm Repetition accuracy, gripper 0.02 mm Number of gripper jaws 2 Drive system Pneumatic Mode of operation Double-acting Gripper function Parallel Gripper force back-up During closing Design Rack and pinion Position detection Via Hall sensor Wia noperating frequency of gripper 4 Hz Max. operating frequency of gripper 4 Hz Min. opening time at 0.6 MPa (6 bar, 87 psi) 90 ms Max. mass per external gripper finger 250 g Operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature 5 °C60 °C Max. force on gripper jaw Fz static 380 N Max. torque at gripper My static 21 Nm	Max. angular gripper jaw backlash ax, ay	0 deg
Repetition accuracy, gripper0.02 mmNumber of gripper jaws2Drive systemPneumaticMode of operationDouble-actingGripper functionParallelGripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 · Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMax. more on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper My static21 Nm	Max. gripper jaw backlash Sz	0 mm
Number of gripper jaws2Drive systemPneumaticMode of operationDouble-actingGripper functionParallelGripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. closing time at 0.6 MPa (6 bar, 87 psi)105 msMax. mass per external gripper finger250 gOperating 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 CRC2 · Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMax. more on gripper jaw Fz static380 NMax. torque at gripper My static21 NmMax. torque at gripper My static21 Nm	Rotationally symmetrical	0.05 mm
Drive systemPneumaticMode of operationDouble-actingGripper functionParallelGripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. torque at gripper Mx static21 NmMax. torque at gripper Mx static21 Nm	Repetition accuracy, gripper	0.02 mm
Mode of operationDouble-actingGripper functionParallelGripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzWin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMas. morent of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper Mx static21 Nm	Number of gripper jaws	2
Gripper functionParallelGripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzWin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating and pilot 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMas. moment of inertia16.85 kgcm²Max. torque at gripper Mx static21 NmMax. torque at gripper My static21 Nm	Drive system	Pneumatic
Gripper force back-upDuring closingDesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMas. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper My static21 Nm	Mode of operation	Double-acting
DesignRack and pinionPosition detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMas. moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper My static21 NmMax. torque at gripper My static21 Nm	Gripper function	Parallel
Position detectionVia Hall sensor Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMas. force on gripper jaw Fz static380 NMax. torque at gripper My static21 NmMax. torque at gripper Mz static21 Nm	Gripper force back-up	During closing
Via inductive sensorsOperating pressure5 bar8 barMax. operating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMax. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper Mz static21 NmMax. torque at gripper Mz static21 Nm	Design	Rack and pinion
NumberProvide Provide HzMax. operating frequency of gripper4 HzMin. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. torque at gripper Mx static21 NmMax. torque at gripper Mz static21 Nm	Position detection	
Min. opening time at 0.6 MPa (6 bar, 87 psi)105 msMin. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. torque at gripper Mx static21 NmMax. torque at gripper My static21 Nm	Operating pressure	5 bar8 bar
Min. closing time at 0.6 MPa (6 bar, 87 psi)90 msMax. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. torque at gripper Mx static21 NmMax. torque at gripper My static21 Nm	Max. operating frequency of gripper	4 Hz
Max. mass per external gripper finger250 gOperating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. torque at gripper Mx static21 NmMax. torque at gripper Mz static21 NmMax. torque at gripper Mz static21 Nm	Min. opening time at 0.6 MPa (6 bar, 87 psi)	105 ms
Operating 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 CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper Mz static21 Nm	Min. closing time at 0.6 MPa (6 bar, 87 psi)	90 ms
Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper Mz static21 NmMax. torque at gripper Mz static21 Nm	Max. mass per external gripper finger	250 g
always be required)Corrosion resistance class CRC2 · Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper My static21 NmMax. torque at gripper Mz static21 Nm	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformityVDMA24364-B2-LAmbient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper My static21 NmMax. torque at gripper Mz static21 Nm	Note on operating and pilot medium	
Ambient temperature5 °C60 °CMass moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper My static21 NmMax. torque at gripper Mz static21 Nm	Corrosion resistance class CRC	2 - Moderate corrosion stress
Mass moment of inertia16.85 kgcm²Max. force on gripper jaw Fz static380 NMax. torque at gripper Mx static21 NmMax. torque at gripper My static21 NmMax. torque at gripper Mz static21 Nm	LABS (PWIS) conformity	VDMA24364-B2-L
Max. force on gripper jaw Fz static 380 N Max. torque at gripper Mx static 21 Nm Max. torque at gripper My static 21 Nm Max. torque at gripper Mz static 21 Nm	Ambient temperature	5 °C60 °C
Max. torque at gripper Mx static21 NmMax. torque at gripper My static21 NmMax. torque at gripper Mz static21 Nm	Mass moment of inertia	16.85 kgcm ²
Max. torque at gripper My static 21 Nm Max. torque at gripper Mz static 21 Nm	Max. force on gripper jaw Fz static	380 N
Max. torque at gripper Mz static 21 Nm	Max. torque at gripper Mx static	21 Nm
	Max. torque at gripper My static	21 Nm
Product weight 898 g	Max. torque at gripper Mz static	21 Nm
	Product weight	898 g

FESTO

Feature	Value
Type of mounting	Via female thread
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cover cap	РОМ
Material housing	Hard anodised wrought aluminium alloy
Material gripper jaws	Wrought aluminium alloy, nickel-plated