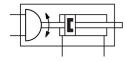
Swivel/linear unit DSL-32- -270-P-A-S2-KF-B Part number: 556720





Data sheet

Stroke10 mm100 mmPiston diameter32 mmSwivel angle0 deg272 degCushioningElastic cushioning rings/plates at both endsMounting positionoptionalFine adjustment-6 degMode of operationDouble-actingDesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guide2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 ps)2 HzOperating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Ubbriot castance class CRC1 - Low corrosion stressLABS (PWIS) conformityVDM24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPerostical ass moment of inertia0.0021 kgm²Product weight3120 g	Feature	Value
Piston diameter 32 mm Swivel angle 0 deg272 deg Cushioning Elastic cushioning rings/plates at both ends Mounting position optional Fine adjustment -6 deg Mode of operation Double-acting Design Vane Position detection Via proximity switch Variants Through piston rod Protection against torque/guide Via ball bearings Operating pressure 2.5 bar8 bar Max. impact speed 500 mm/s Max. swivel frequency at 0.6 MPa (6 bar, 87 psi) 2 Hz Repetition accuracy 1 deg 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 - 1 ow corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature -10 °C60 °C Dynamic load torque 1 Nm Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 294 N Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 403.5 N Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 403.5 N Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 403.5 N	Rotation angle adjustment range	0 deg270 deg
Swivel angle0 deg272 degCushioningElastic cushioning rings/plates at both endsMounting positionoptionalFine adjustment-6 degMode of operationDouble-actingDesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-82-LAmbient temperature10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPremissible meas moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Stroke	10 mm100 mm
CushioningElastic cushioning rings/plates at both endsMounting positionoptionalFine adjustment-6 degMode of operationDouble-actingDesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Corrosion resistance class CRC1 - low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Piston diameter	32 mm
Mounting positionoptionalFine adjustment-6 degMode of operationDouble-actingDesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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)Corrosion resistance class CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Swivel angle	0 deg272 deg
Fine adjustment-6 degMode of operationDouble-actingDesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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)Corrosion resistance class CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Cushioning	Elastic cushioning rings/plates at both ends
Mode of operationDouble-actingDesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Mounting position	optional
DesignVanePosition detectionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Fine adjustment	-6 deg
DescriptionVia proximity switchVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Mode of operation	Double-acting
VariantsThrough piston rodVariantsThrough piston rodProtection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Design	Vane
Protection against torque/guideVia ball bearingsOperating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Position detection	Via proximity switch
Operating pressure2.5 bar8 barMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Variants	Through piston rod
Max. impact speed500 mm/sMax. impact speed500 mm/sMax. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Protection against torque/guide	Via ball bearings
Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)2 HzRotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Operating pressure	2.5 bar8 bar
Rotary angle backlash0.05 degRepetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Max. impact speed	500 mm/s
Repetition accuracy1 degOperating 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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)	2 Hz
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 CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Rotary angle backlash	0.05 deg
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-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Repetition accuracy	1 deg
always be required)Corrosion resistance class CRC1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Note on operating and pilot medium	
Ambient temperature-10 °C60 °CDynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Corrosion resistance class CRC	1 - Low corrosion stress
Dynamic load torque1 NmTheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	LABS (PWIS) conformity	VDMA24364-B2-L
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke294 NTheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Ambient temperature	-10 °C60 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke403.5 NTheoretical torque at 0.6 MPa (6 bar, 87 psi)10 NmPermissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Dynamic load torque	1 Nm
Theoretical torque at 0.6 MPa (6 bar, 87 psi) 10 Nm Permissible mass moment of inertia 0.0021 kgm² Product weight 3120 g Basic weight for 0 mm stroke 3120 g	Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	294 N
Permissible mass moment of inertia0.0021 kgm²Product weight3120 gBasic weight for 0 mm stroke3120 g	Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	403.5 N
Product weight 3120 g Basic weight for 0 mm stroke 3120 g	Theoretical torque at 0.6 MPa (6 bar, 87 psi)	10 Nm
Basic weight for 0 mm stroke 3120 g	Permissible mass moment of inertia	0.0021 kgm ²
	Product weight	3120 g
Additional weight per 10 mm stroke 109 g	Basic weight for 0 mm stroke	3120 g
	Additional weight per 10 mm stroke	109 g

FESTO

Feature	Value
Type of mounting	Clamped in T-slot Via male thread Either:
Pneumatic connection	G1/8
Material cover	Wrought aluminium alloy Anodised
Material seals	TPE-U(PU)
Material housing	Wrought aluminium alloy Smooth anodised
Material piston rod	Tempered steel