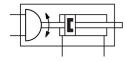
Swivel actuator unit DSL-32-25-270-P-A-S2-B

Part number: 556498





Data sheet

Adjustment range of swivel angle0 deg270 degStroke25 mmPiston diameter32 mmSwivel angle0 deg272 degCushioningElastic cushioning rings/pads at both endsMounting positionAnyPrecision adjustment-6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. swivel frequency at 6 bar2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-82-LAmbient temperature10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 g	Feature	Value
Piston diameter32 mmSwivel angle0 deg272 degCushioningElastic cushioning rings/pads at both endsMounting positionAnyPrecision adjustment-6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodPretection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Adjustment range of swivel angle	0 deg270 deg
Swivel angle0 deg272 degCushioningElastic cushioning rings/pads at both endsMounting positionAnyPrecision adjustment-6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing242.5 NPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Stroke	25 mm
CushioningElastic cushioning rings/pads at both endsMounting positionAnyPrecision adjustment-6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 · Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing242.5 NPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Piston diameter	32 mm
Mounting positionAnyPrecision adjustment-6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Swivel angle	0 deg272 deg
Precision adjustment-6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Cushioning	Elastic cushioning rings/pads at both ends
Mode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Mounting position	Any
Structural designRotary vanePosition sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Precision adjustment	-6 deg
Position sensingFor proximity sensorVariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Mode of operation	Double-acting
VariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 · Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Structural design	Rotary vane
Protection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Position sensing	For proximity sensor
Operating pressure2.5 bar8 barMax. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Variants	Through piston rod
Max. impact velocity500 mm/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Protection against torsion/guide	With plain-bearing guide
Max. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Operating pressure	2.5 bar8 bar
Swivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Max. impact velocity	500 mm/s
Repetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Max. swivel frequency at 6 bar	2 Hz
Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Swivel angle backlash	2 deg
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Repetition accuracy	1 deg
Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Operating medium	Compressed air as per ISO 8573-1:2010[7:4:4]
LABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-10 °C60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Corrosion resistance class (CRC)	1 - Low corrosion stress
Dynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	LABS (PWIS) conformity	VDMA24364-B2-L
Theoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Ambient temperature	-10 °C60 °C
Theoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia0.00017 kgm²Product weight2840 g	Dynamic load torque	0.8 Nm
Theoretical torque at 6 bar 10 Nm Permissible mass moment of inertia 0.00017 kgm² Product weight 2840 g	Theoretical force at 6 bar, retracting	294 N
Permissible mass moment of inertia 0.00017 kgm² Product weight 2840 g	Theoretical force at 6 bar, advancing	422.5 N
Product weight 2840 g	Theoretical torque at 6 bar	10 Nm
	Permissible mass moment of inertia	0.00017 kgm ²
Basic weight with 0 mm stroke 2840 g	Product weight	2840 g
	Basic weight with 0 mm stroke	2840 g
Additional weight per 10 mm stroke 109 g	Additional weight per 10 mm stroke	109 g

FESTO

Feature	Value
Type of mounting	Clamped in T slot With external thread Optionally:
Pneumatic connection	G1/8
Cover material	Wrought aluminum alloy Anodized
Seals material	TPE-U(PU)
Housing material	Wrought aluminum alloy Smooth anodized
Piston rod material	Tempered steel