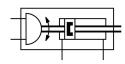
Swivel actuator unit DSL-32-50-270-P-A-S20-B

Part number: 556513





General operating condition

Data sheet

Stroke 50 mm Piston diameter 32 mm Swivel angle 0 deg 272 deg Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Precision adjustment -6 deg Mode of operation Double-acting Structural design Rotary vane Position sensing For proximity sensor Symbol 00991269 Variants Through, hollow piston rod Protection against torsion/guide 0.5 m/s Operating pressure 2.5 bm 8 bar Max. swivel frequency at 6 bar 2 Hz Swivel angle backlash 2 deg Repetition accuracy 1 deg Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation stress LASS (PWIS) conformity VDMA24364-B2-L Ambient temperature 10 °C 60 °C Opmating load torque 0.8 Nm Theoretical force at 6 bar, avancing 224 N Theoretical torque at 6 bar 10 Nm Premissible mass moment of inertia 1.7E-4 kgm² Pro	Feature	Value
Piston diameter 32 mm Swivel angle 0 deg 272 deg Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Precision adjustment 6 deg Mode of operation Double-acting Structural design Rotary vane Position sensing For proximity sensor Symbol 00991269 Variants Through, hollow piston rod Protection against torsion/guide With plain-bearing guide Operating pressure 2.5 bar 8 bar Max. swipel frequency at 6 bar 2 Hz Swivel angle backlash 2 deg Repetition accuracy 1 deg Operating medium Compressed air as per ISO 8573-1:2010[7:4:4] normation on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature 0.8 Mm Theoretical force at 6 bar, advancing 422.5 N Theoretical force at 6 bar, advancing 240 N Theoretical force at 6 bar, advancing 2840 g Product weight 2840 g Basic weight with 0 mm stroke 2840 g Additional weight per 10 m	Adjustment range of swivel angle	0 deg 270 deg
Swivel angle0 deg 272 degCushioningElastic cushioning rings/pads at both endsMounting positionAnyPrecision adjustment6 degMode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorSymbol00991269VariantsThrough, hollow piston rodPretection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar 8 barMax. sinpact Velocity0.5 m/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Ororsion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature10 °C 60 °COparating force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing2840 gPasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 gViponalOpficinally: Clamped in T slot With external thread	Stroke	50 mm
CushioningElastic cushioning rings/pads at both endsMounting positionAnyPrecision adjustment-6 degMode of operationDouble-actingStructural designFor proximity sensorPosition sensingFor proximity sensorSymbol00991269VariantsThrough, hollow piston rodProtection against torsion/guide0.5 m/sOperating pressure2.5 bar 8 barMax. impact velocity0.5 m/sMax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumOperation systemsLABS (PWIS) conformityVDMA24364-B2-LAmbient temperature:10 °C 60 °CDynamic load force at 6 bar, etarcating24 NTheoretical force at 6 bar, advancing422.5 NPrestical force at 6 bar, advancing10 NmPermissible mass moment of inertia1.7E 4 kgm²Product weight2840 gBasic weight with 0 mm stroke109 gType of mountingOptionally: Curroal threadVith external thread0.91 g	Piston diameter	32 mm
Mounting position Any Precision adjustment -6 deg Mode of operation Double-acting Structural design Rotary vane Position sensing For proximity sensor Symbol 00991269 Variants Through, hollow piston rod Protection against torsion/guide With plain-bearing guide Operating pressure 2.5 bar 8 bar Operating pressure 0.5 m/s Max. swivel frequency at 6 bar 2 Hz Swivel angle backlash 2 deg Repetition accuracy 1 deg Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-82-L Ambient temperature 0.8 Nm Dynamic load torque 0.8 Nm Theoretical force at 6 bar, retracting 294 N Theoretical torque at 6 bar 10 Nm Premissible mass moment of inertia 1.7E-4 kgm ² Product weight 2840 g Badititional weight per 10 mm stroke	Swivel angle	0 deg 272 deg
Precision adjustment -6 deg Mode of operation Double-acting Rotary vane Position sensing For proximity sensor Sopola Symbol 00991269 Variants Through, hollow piston rod Protection against torsion/guide With plain-bearing guide Operating pressure 2.5 bar 8 bar Max. impact velocity 0.5 m/s Max. swivel frequency at 6 bar 2 Hz Swivel angle backlash 2 deg Repetition accuracy 1 deg Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Ambient temperature 1.0 °C 60 °C Dynamic load torque 0.8 Nm Theoretical force at 6 bar, retracting 294 N Theoretical force at 6 bar, advancing 422.5 N Theoretical torque at 6 bar 10 Nm Permissible mass moment of inertia 1.7E-4 kgm² Product weight 2840 g	Cushioning	Elastic cushioning rings/pads at both ends
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Position sensingFor proximity sensorSymbol00991269VariantsThrough, hollow piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar 8 barMax. impact velocity0.5 m/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) conformityVDMA2436A-B2-LAmbient temperature-10 °C 60 °COynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar10 NmPermissible mass moment of inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke199 gType of mountingOptionally: Clamped in T slot With external thread	Mode of operation	Double-acting
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Protection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar 8 barMax. impact velocity0.5 m/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) conformityVDMA24364-82-LAmbient temperature-10 °C 60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing12.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 nm stroke2840 gAdditional weight per 10 mm stroke109 g gType of mountingOptionally: Clamped in T slot With external thread	Symbol	00991269
Operating pressure2.5 bar 8 barMax. impact velocity0.5 m/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 °C 60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing1.7E-4 kgm²Product weight2840 gBasic weight with 0 nm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Variants	Through, hollow piston rod
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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 °C 60 °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 inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Max. impact velocity	0.5 m/s
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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 °C 60 °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 inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Swivel angle backlash	2 deg
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LABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C 60 °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 inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-10 °C 60 °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 inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Corrosion resistance class (CRC)	1 - Low corrosion stress
Dynamic load torque0.8 NmDynamic 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 inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	LABS (PWIS) conformity	VDMA24364-B2-L
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Theoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar10 NmPermissible mass moment of inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Dynamic load torque	0.8 Nm
Theoretical torque at 6 bar 10 Nm Permissible mass moment of inertia 1.7E-4 kgm² Product weight 2840 g Basic weight with 0 mm stroke 2840 g Additional weight per 10 mm stroke 109 g Type of mounting Optionally: Clamped in T slot With external thread	Theoretical force at 6 bar, retracting	294 N
Permissible mass moment of inertia 1.7E-4 kgm² Product weight 2840 g Basic weight with 0 mm stroke 2840 g Additional weight per 10 mm stroke 109 g Type of mounting Optionally: Clamped in T slot With external thread	Theoretical force at 6 bar, advancing	422.5 N
Product weight 2840 g Basic weight with 0 mm stroke 2840 g Additional weight per 10 mm stroke 109 g Type of mounting Optionally: Clamped in T slot With external thread	Theoretical torque at 6 bar	10 Nm
Basic weight with 0 mm stroke 2840 g Additional weight per 10 mm stroke 109 g Type of mounting Optionally: Clamped in T slot With external thread	Permissible mass moment of inertia	1.7E-4 kgm ²
Additional weight per 10 mm stroke 109 g Type of mounting Optionally: Clamped in T slot With external thread	Product weight	2840 g
Type of mounting Optionally: Clamped in T slot With external thread	Basic weight with 0 mm stroke	2840 g
Clamped in T slot With external thread	Additional weight per 10 mm stroke	109 g
Pneumatic connection G1/8	Type of mounting	Clamped in T slot
	Pneumatic connection	G1/8

Feature	Value
	Wrought aluminum alloy Anodized
Seals material	TPE-U(PU)
	Wrought aluminum alloy Smooth anodized
Piston rod material	Tempered steel