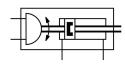
## Swivel actuator unit DSL-32-50-270-P-A-S20-B

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 <sup>2</sup> 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
Mode of operationDouble-actingStructural designRotary vanePosition 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]formation 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 NPremissible meas moment of inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gAdditional weight per 10 mm stroke109 g gType of mountingOptionally: Cuamped in T slot With external thread	Mounting position	Any
Structural designRotary vanePosition 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) conformityVDMA24364-B2-LAmbient temperature-10 °C 60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting244 NTheoretical force at 6 bar, advancing1.7E-4 kgm²Premissible mass moment of inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke294 NQuery and all weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Precision adjustment	-6 deg
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
Symbol00991269VariantsThrough, 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) conformityVDMA24364-B2-LAmbient temperature-10 °C 60 °COynamic load torque0.8 NmTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar10 NmPermissible mass moment of inertia1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke2840 gLyp of mountingOptionally: Clamped in T slot With external thread	Structural design	Rotary vane
AvaiantsThrough, 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) conformityVDMA24364-B2-LAmbient temperature-10 °C 60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, advancing422.5 NTheoretical force at 6 bar, advancing1.7E-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	Position sensing	For proximity sensor
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
Max. 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 mm stroke2840 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	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 °C 60 °CDynamic load torque0.8 NmTheoretical force at 6 bar, retracting294 NTheoretical force at 6 bar, advancing422.5 NTheoretical torque at 6 bar1.7E-4 kgm²Product weight2840 gBasic weight with 0 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Operating pressure	2.5 bar 8 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 °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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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 gAdditional weight per 10 mm stroke109 gType of mountingOptionally: Clamped in T slot With external thread	Repetition accuracy	1 deg
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	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
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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
Theoretical 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	Ambient temperature	-10 °C 60 °C
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 <sup>2</sup>
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