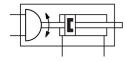
Swivel actuator unit DSL-16-80-270-P-A-S2-KF-B

Part number: 556600





Data sheet

B0 mm Note Name Name Note Note <	Feature	Value
iston diameter16 mmwivel angle0 deg272 degushioningElastic cushioning rings/pads at both endsAounting positionAnyPrecision adjustment-6 degAode of operationDouble-actingtiructural designRotary vanePosition sensingFor proximity sensorfariantsThrough piston rodSolperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swiel frequency at 6 bar2 Hzwivel angle backlash0.05 degteptition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]orrisolon resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwinhein temperature-10 °C60 °Cvpamic load torque0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing13.5 Nheoretical torque at 6 bar1.25 Nmkeretistion stress700 g	Adjustment range of swivel angle	0 deg270 deg
wivel angle0 deg272 degSushioningElastic cushioning rings/pads at both endsAounting positionAnyPrecision adjustment-6 degAode of operationDouble-actingsitructural designRotary vanePosition sensingFor proximity sensorfariantsThrough piston rodfortection against torsion/guideGuided on ball bearingsOperating pressure2.5 bar8 barAax. swivel frequency at 6 bar2 Hzswivel angle backlash0.05 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)formation and pilot media0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing103.5 Nheoretical torque at 6 bar3.5E-05 kgm²roduct weight700 g	Stroke	80 mm
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AnyAnyrecision adjustment-6 degAode of operationDouble-actingbitructural designRotary vanebosition sensingFor proximity sensordariantsThrough piston rodbrotection against torsion/guideGuided on ball bearingsOperating pressure2.5 bar8 barAax. sinyel frequency at 6 bar2 Hzwivel angle backlash0.05 degtepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)forrestion resistance class (CRC)1 · Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwindent temperature-10 °C60 °Coynamic load torque0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, retracting1.25 Nmtermissible mass moment of inertia3.5E-05 kgm²termissible mass moment of inertia700 gtasic weight with 0 mm stroke700 g	Swivel angle	0 deg272 deg
Precision adjustment-6 degAode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorfariantsThrough piston rodProtection against torsion/guideGuided on ball bearingsOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 Hzwivel angle backlash0.05 degDeperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]on operating and pilot mediaOperation with oil lubrication possible (required for further use)formation on operating and pilot media0.17 NmABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COpmanic load torque0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing103.5 Nheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²roduct weight700 g	Cushioning	Elastic cushioning rings/pads at both ends
Adde of operationDouble-actingbitructural designRotary vanebosition sensingFor proximity sensordariantsThrough piston rodbrotection against torsion/guideGuided on ball bearingsOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 Hzwivel angle backlash0.05 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Operation resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwinbent temperature0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing103.5 Nheoretical force at 6 bar1.25 Nmheoretical with 0 mm stroke700 g	Mounting position	Any
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ArriantsThrough piston rodArriantsThrough piston rodProtection against torsion/guideGuided on ball bearingsOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 HzSwivel angle backlash0.05 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 stressABS (PWIS) conformityVDMA24364-B2-LNumbient temperature-10 °C60 °COpynamic load torque0.17 NmCheoretical force at 6 bar, retracting73.5 NCheoretical force at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Structural design	Rotary vane
Protection against torsion/guideGuided on ball bearingsOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 HzSwivel angle backlash0.05 degtepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]onformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwinbient temperature-10 °C60 °COynamic load torque0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing103.5 Nheoretical torque at 6 bar1.25 Nmheoretical torque at 6 bar3.5E-05 kgm²'roduct weight700 gSasic weight with 0 mm stroke700 g	Position sensing	For proximity sensor
Operating pessure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 Hziwivel angle backlash0.05 degtepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]offormation on operating and pilot mediaOperation with oil lubrication possible (required for further use)corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwhient temperature-10 °C60 °COynamic load torque0.17 Nmheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing10.3.5 Nheoretical torque at 6 bar1.25 Nmvermissible mass moment of inertia3.5E-05 kgm²roduct weight700 gBasic weight with 0 mm stroke700 g	Variants	Through piston rod
Alax. impact velocity500 mm/sAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 Hziwivel angle backlash0.05 degtepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwibient temperature-10 °C60 °COynamic load torque0.17 Nm'heoretical force at 6 bar, retracting73.5 N'heoretical force at 6 bar, advancing103.5 N'heoretical torque at 6 bar1.25 Nm'Permissible mass moment of inertia3.5E-05 kgm²'Product weight700 gBasic weight with 0 mm stroke700 g	Protection against torsion/guide	Guided on ball bearings
Aax. swivel frequency at 6 bar2 HzAax. swivel angle backlash0.05 degteepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwnbient temperature-10 °C60 °COynamic load torque0.17 Nmheoretical force at 6 bar, retracting73.5 N'heoretical force at 6 bar, advancing103.5 N'heoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Operating pressure	2.5 bar8 bar
wivel angle backlash0.05 degteepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-Lwmbient temperature-10 °C60 °COynamic load torque0.17 Nm'heoretical force at 6 bar, retracting73.5 N'heoretical force at 6 bar, advancing10.3.5 N'heoretical torque at 6 bar1.25 Nm'heoretical torque at 6 bar3.5E-05 kgm²'Product weight700 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 stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COynamic load torque0.17 NmHeoretical force at 6 bar, retracting73.5 NTheoretical force at 6 bar, advancing10.35 NTheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Max. swivel frequency at 6 bar	2 Hz
Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]nformation on operating and pilot mediaOperation with oil lubrication possible (required for further use)corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COynamic load torque0.17 NmTheoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing103.5 NPremissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Swivel angle backlash	0.05 deg
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COynamic load torque0.17 NmTheoretical force at 6 bar, retracting73.5 NTheoretical force at 6 bar, advancing103.5 NTheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Orduct weight700 gBasic weight with 0 mm stroke700 g	Repetition accuracy	1 deg
Corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.17 NmCheoretical force at 6 bar, retracting73.5 NTheoretical force at 6 bar, advancing103.5 NCheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
ABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque0.17 NmTheoretical force at 6 bar, retracting73.5 NTheoretical force at 6 bar, advancing103.5 NTheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-10 °C60 °COynamic load torque0.17 NmCheoretical force at 6 bar, retracting73.5 NCheoretical force at 6 bar, advancing103.5 NCheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Oroduct weight700 gBasic weight with 0 mm stroke700 g	Corrosion resistance class (CRC)	1 - Low corrosion stress
Dynamic load torque0.17 NmCheoretical force at 6 bar, retracting73.5 NCheoretical force at 6 bar, advancing103.5 NCheoretical torque at 6 bar1.25 NmCheoretical torque at 6 bar3.5E-05 kgm²Cheoretical torque at 6 bar700 gCheoretical weight with 0 mm stroke700 g	LABS (PWIS) conformity	VDMA24364-B2-L
heoretical force at 6 bar, retracting73.5 Nheoretical force at 6 bar, advancing103.5 Nheoretical torque at 6 bar1.25 Nmheoretical torque at 6 bar3.5E-05 kgm²Permissible mass moment of inertia700 gBasic weight with 0 mm stroke700 g	Ambient temperature	-10 °C60 °C
heoretical force at 6 bar, advancing103.5 NTheoretical torque at 6 bar1.25 NmPermissible mass moment of inertia3.5E-05 kgm²Product weight700 gBasic weight with 0 mm stroke700 g	Dynamic load torque	0.17 Nm
'heoretical torque at 6 bar 1.25 Nm 'ermissible mass moment of inertia 3.5E-05 kgm² 'roduct weight 700 g Basic weight with 0 mm stroke 700 g	Theoretical force at 6 bar, retracting	73.5 N
Permissible mass moment of inertia 3.5E-05 kgm² Product weight 700 g Basic weight with 0 mm stroke 700 g	Theoretical force at 6 bar, advancing	103.5 N
Product weight 700 g Basic weight with 0 mm stroke 700 g	Theoretical torque at 6 bar	1.25 Nm
Basic weight with 0 mm stroke 700 g	Permissible mass moment of inertia	3.5E-05 kgm ²
	Product weight	700 g
Additional weight per 10 mm stroke 33 g	Basic weight with 0 mm stroke	700 g
	Additional weight per 10 mm stroke	33 g

FESTO

Feature	Value
Type of mounting	Clamped in T slot With external thread Optionally:
Pneumatic connection	M5
Cover material	Wrought aluminum alloy Anodized
Seals material	TPE-U(PU)
Housing material	Wrought aluminum alloy Smooth anodized
Piston rod material	Tempered steel