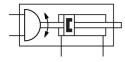
Swivel actuator unit DSL-40-80-270-P-A-S2-B

Part number: 556552





Data sheet

BornWitoke80 mmViston diameter40 mmWistel angle0 deg272 degCushioningElastic cushioning rings/pads at both endsAuouting positionAnyPrecision adjustment-6 degAode of operationDouble-actingNoturuid designRotary vanePosition sensingFor proximity sensorAriantsThrough piston rodVrotection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. wivel frequency at 6 bar2 HzSwivel angle backlash2 degUperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Operating nesture1 desOperating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressVDMA24364-B2-Lwinbehert temperature-10 °C60 °C-20 NmVparatic lad torque1.1 Nmheoretical force at 6 bar, retracting495 Nheoretical force at 6 bar, advancing660 Nheoretical torque at 6 bar20 Nmvermissible mass moment of inertia0.00024 kgm²Yoduct weight5000 gBasic weight with 0 mm stroke5000 g	Feature	Value
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wivel angle0 deg272 degbushioningElastic cushioning rings/pads at both endsAounting positionAnyPrecision adjustment-6 degAode of operationDouble-actingBitructural designRotary vanePosition sensingFor proximity sensorAriantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. mipact velocity500 mm/sAax, swivel frequency at 6 bar2 HzSiver langle backlash2 degDeparting mediumOperation pressed 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 stressABS (PWIS) conformityVDMA24364-B2-Lwindent druge1.1 NmTheoretical force at 6 bar, retracting495 Nheoretical force at 6 bar, advancing660 Nheoretical force at 6 bar, advancing0.00024 kgm²Protectical force at 6 bar, with of inertia0.00024 kgm²Product weight5000 g	Stroke	80 mm
LushioningElastic cushioning rings/pads at both endsAounting positionAnyArecision adjustment-6 degAode of operationDouble-actingBitructural designRotary vanePosition sensingFor proximity sensorArainatsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 degBepetition accuracy1 degOperating mediumOperation pressed air as per ISO 8573-1:2010[7:4:4]formation an operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LVindmic Lad forque1.1 NmTheoretical force at 6 bar, retracting495 N"heoretical force at 6 bar, advancing660 N"heoretical torque at 6 bar20 Nm"heoretical torque at 6 bar20 Nm"heoretical torque at 6 bar20 Nm"heoretical torque at 6 bar, weither0.00024 kgm²"heoretical torque at 6 bar, weither5000 g"heoretical torque at 6 bar5000 g	Piston diameter	40 mm
AnyAnyPrecision adjustment-6 degAode of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorArriantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. sinyedt frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LAminet reperature-10 °C60 °COparating force at 6 bar, retracting495 Nheoretical force at 6 bar, retracting660 Nheoretical force at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Swivel angle	0 deg272 deg
Precision adjustment-6 degAdde of operationDouble-actingStructural designRotary vanePosition sensingFor proximity sensorArriantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. 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 stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COpmanic load torque1.1 Nm"heoretical force at 6 bar, retracting495 Nheoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 g	Cushioning	Elastic cushioning rings/pads at both ends
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Structural designRotary vaneProsition sensingFor proximity sensorfariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LVonamic load torque1.1 Nmheoretical force at 6 bar, advancing660 Nheoretical force at 6 bar, advancing0.00024 kgm²Permissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Precision adjustment	-6 deg
Position sensingFor proximity sensor/ariantsThrough piston rod/ariantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 bar/ax. impact velocity500 mm/s/ax. swivel frequency at 6 bar2 Hz/ax. swivel angle backlash2 degRepetition 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-LAmbient temperature-10 °C60 °COparatic load torque1.1 NmTheoretical force at 6 bar, retracting495 NProduct weight5000 gBasic weight with 0 mm stroke5000 g	Mode of operation	Double-acting
AriantsThrough piston rodProtection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. 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]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-LAmbient temperature-10 °C60 °COparatic lorce at 6 bar, retracting495 NCheoretical force at 6 bar, advancing660 NCheoretical force at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Structural design	Rotary vane
Protection against torsion/guideWith plain-bearing guideOperating pressure2.5 bar8 barAax. impact velocity500 mm/sAax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition 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-LAmbient temperature-10 °C60 °COynamic load torque1.1 Nm'heoretical force at 6 bar, retracting660 N'heoretical torque at 6 bar20 Nm'heoretical torque at 6 bar20 Nm'heoretical torque at 6 bar5000 g'heoretical torque at 6 bar5000 g'horduct weight5000 g	Position sensing	For proximity sensor
Operating pressure2.5 bar8 barAax. inpact velocity500 mm/sAax. swivel frequency at 6 bar2 HzSwivel angle backlash2 degRepetition accuracy1 degOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]oformation 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 torque1.1 Nm'heoretical force at 6 bar, retracting495 N'heoretical force at 6 bar, advancing660 N'heoretical torque at 6 bar20 Nm'heoretical torque at 6 bar5000 g'broduct weight5000 gBasic weight with 0 mm stroke5000 g	Variants	Through piston rod
Aax. impact velocity500 mm/sAax. impact velocity500 mm/sAax. 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 stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COynamic load torque1.1 Nm'heoretical force at 6 bar, retracting495 N'heoretical force at 6 bar, advancing660 N'heoretical torque at 6 bar20 Nm'heoretical torque at 6 bar5000 g'heoretical torque to fourther5000 g'heoretical torque to fourther5000 g	Protection against torsion/guide	With plain-bearing guide
Aax. swivel frequency at 6 bar2 HzAax. 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 stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COynamic load torque1.1 Nm'heoretical force at 6 bar, retracting495 N'heoretical force at 6 bar, advancing660 N'heoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 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 stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °COynamic load torque1.1 Nm'heoretical force at 6 bar, retracting495 N'heoretical force at 6 bar, advancing660 N'heoretical torque at 6 bar20 Nm'heoretical torque at 6 bar5000 gBasic weight with 0 mm stroke5000 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 torque1.1 NmCheoretical force at 6 bar, retracting495 NCheoretical force at 6 bar, advancing660 NCheoretical torque at 6 bar20 NmCheoretical torque at 6 bar5000 gBasic weight with 0 mm stroke5000 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 °CDynamic load torque1.1 NmTheoretical force at 6 bar, retracting495 N'heoretical force at 6 bar, advancing660 N'heoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 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 stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1.1 NmTheoretical force at 6 bar, retracting495 NTheoretical force at 6 bar, advancing660 NTheoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Oroduct weight5000 gBasic weight with 0 mm stroke5000 g	Repetition accuracy	1 deg
Corrosion resistance class (CRC)1 - Low corrosion stressABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1.1 NmTheoretical force at 6 bar, retracting495 NTheoretical force at 6 bar, advancing660 NTheoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Operating medium	Compressed air as per ISO 8573-1:2010[7:4:4]
ABS (PWIS) conformityVDMA24364-B2-LAmbient temperature-10 °C60 °CDynamic load torque1.1 NmTheoretical force at 6 bar, retracting495 NTheoretical force at 6 bar, advancing660 NTheoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-10 °C60 °CDynamic load torque1.1 NmTheoretical force at 6 bar, retracting495 NTheoretical force at 6 bar, advancing660 NTheoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Corrosion resistance class (CRC)	1 - Low corrosion stress
Dynamic load torque1.1 Nm'heoretical force at 6 bar, retracting495 N'heoretical force at 6 bar, advancing660 N'heoretical torque at 6 bar20 Nm'Permissible mass moment of inertia0.00024 kgm²'Product weight5000 gBasic weight with 0 mm stroke5000 g	LABS (PWIS) conformity	VDMA24364-B2-L
Theoretical force at 6 bar, retracting495 NTheoretical force at 6 bar, advancing660 NTheoretical torque at 6 bar20 NmPermissible mass moment of inertia0.00024 kgm²Product weight5000 gBasic weight with 0 mm stroke5000 g	Ambient temperature	-10 °C60 °C
heoretical force at 6 bar, advancing 660 N heoretical torque at 6 bar 20 Nm Permissible mass moment of inertia 0.00024 kgm² Product weight 5000 g Basic weight with 0 mm stroke 5000 g	Dynamic load torque	1.1 Nm
Pheoretical torque at 6 bar 20 Nm Permissible mass moment of inertia 0.00024 kgm² Product weight 5000 g Basic weight with 0 mm stroke 5000 g	Theoretical force at 6 bar, retracting	495 N
Permissible mass moment of inertia 0.00024 kgm² Product weight 5000 g Basic weight with 0 mm stroke 5000 g	Theoretical force at 6 bar, advancing	660 N
Product weight 5000 g Basic weight with 0 mm stroke 5000 g	Theoretical torque at 6 bar	20 Nm
Basic weight with 0 mm stroke 5000 g	Permissible mass moment of inertia	0.00024 kgm²
	Product weight	5000 g
Additional weight per 10 mm stroke 170 g	Basic weight with 0 mm stroke	5000 g
	Additional weight per 10 mm stroke	170 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