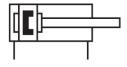
Compact cylinder ADN-S-40-50-A-P-A-F1A Part number: 8142895



Data sheet

ion batteries Piston rod at one endOperating pressure0.06 MPa1 MPa 0.6 bar10 bar 8.7 psi145 psiOperating 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)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel,	Feature	Value
Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Mode of operation Double-acting Piston rod end External thread Structural design Piston rod Position sensing For proximity sensor Variants Recommended for production facilities for the manufacture of lithiu ion batteries Piston rod at one end Operating pressure 0.06 MPa10 bar 8.7 psi145 psi 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) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use i battery production.Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 0 °C60 °C Impact energy in the end positions 0.7 J Theoretical force at 6 bar, retracting 686 N	Stroke	50 mm
Mounting position Any Mode of operation Double-acting Piston rod end External thread Structural design Piston Piston rod Position sensing For proximity sensor Variants Recommended for production facilities for the manufacture of lithiu ion batteries Piston rod at one end Operating pressure 0.66 MPa10 bar 8.7 psi145 psi 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) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use i battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coils Cleanroom class Class 6 according to 150 14644-1 Ambient temperature 0 °C60 °C Impact energy in the end positions 0.7 J Theoretical force at 6 bar, retracting 686 N	Piston diameter	40 mm
Mode of operation Double-acting Piston rod end External thread Structural design Piston Piston rod Position sensing For proximity sensor Variants Recommended for production facilities for the manufacture of lithits ion batteries Piston rod at one end Operating pressure 0.06 MPa1 MPa 0.6 bar10 bar 8.7 psi145 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation stress Corrosion resistance class (CRC) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use i battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 0 °C60 °C Impact energy in the end positions 0.7 J Theoretical force at 6 bar, retracting 686 N	Cushioning	Elastic cushioning rings/pads at both ends
Piston rod External thread Structural design Piston Position sensing For proximity sensor Variants Recommended for production facilities for the manufacture of lithic ion batteries Piston rod at one end 0.06 MPa1 MPa Operating pressure 0.06 MPa1 MPa 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) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coils Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 0 °C60 °C Impact energy in the end positions 0.7 J Theoretical force at 6 bar, retracting 686 N	Mounting position	Any
Structural design Piston Position sensing For proximity sensor Variants Recommended for production facilities for the manufacture of lithiu ion batteries Piston rod at one end 0.06 MPa1 MPa Operating pressure 0.06 MPa1 MPa 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) 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use i battery production. Metals with more than 1% by mass of copper, z or nickel are excluded from use. The exceptions are nickel in steel, or nickel are excluded from use. The exceptions are nickel in steel, or nickel are excluded from use. The exceptions are nickel in steel, or nickel are excluded from use. The exceptions are nickel in steel, or nickel are excluded from use. The exceptions are nickel in steel, or nickel are excluded from use. The exceptions are nickel in steel, or nickel are excluded from use. The exceptions are nickel in steel. Cleanroom class Class 6 according to ISO 14644-1 Ambient temperature 0 °C60 °C Impact energy in the end positions 0.7 J Theoretical force at 6 bar, retracting 686 N <td>Mode of operation</td> <td>Double-acting</td>	Mode of operation	Double-acting
Piston rodPosition sensingFor proximity sensorVariantsRecommended for production facilities for the manufacture of lithiu ion batteries Piston rod at one endOperating pressure0.06 MPa1 MPa 0.6 bar10 bar 8.7 psi145 psiOperating 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)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteries batteries connectors and coilsProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, 2 or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical product ore connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Piston rod end	External thread
VariantsRecommended for production facilities for the manufacture of lithiu ion batteries Piston rod at one endOperating pressure0.06 MPa1 MPa 0.6 bar10 bar 8.7 psi145 psiOperating 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)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use i battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 ° C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Structural design	
ion batteries Piston rod at one endOperating pressure0.06 MPa1 MPa 0.6 bar10 bar 8.7 psi145 psiOperating 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)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Position sensing	For proximity sensor
Operating mediumO.6 bar10 bar 8.7 psi145 psiOperating 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)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Variants	
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Operating pressure	0.6 bar10 bar
Corrosion resistance class (CRC)0 - No corrosion stressLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Suitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Corrosion resistance class (CRC)	0 - No corrosion stress
battery production:Metals with more than 1% by mass of copper, z or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical p connectors and coilsCleanroom classClass 6 according to ISO 14644-1Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature0 °C60 °CImpact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Suitability for the production of Li-ion batteries	chemically nickel-plated surfaces, circuit boards, cables, electrical plug
Impact energy in the end positions0.7 JTheoretical force at 6 bar, retracting686 N	Cleanroom class	Class 6 according to ISO 14644-1
Theoretical force at 6 bar, retracting 686 N	Ambient temperature	0 °C60 °C
	Impact energy in the end positions	0.7 J
Theoretical force at 6 bar, advancing 754 N	Theoretical force at 6 bar, retracting	686 N
	Theoretical force at 6 bar, advancing	754 N
Moving mass at 0 mm stroke 62 g	Moving mass at 0 mm stroke	62 g
Additional moving mass per 10 mm stroke 9 g	Additional moving mass per 10 mm stroke	9 g
Basic weight with 0 mm stroke 304 g	Basic weight with 0 mm stroke	304 g
Additional weight per 10 mm stroke 45 g	Additional weight per 10 mm stroke	45 g

FESTO



Feature	Value
	With through-hole With internal thread
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, anodized
Material of dynamic seals	TPE-U(PU)
Housing material	Wrought aluminum alloy, anodized
Piston rod material	High-alloy stainless steel