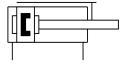
Guided drive DFM-50-80-P-A-GF-F1A

Part number: 8118929







Data sheet

Stroke 80 mm Piston diameter 50 mm Operating mode, drive unit Yoke Cushioning Elastic cushioning rings/plates at both ends Mounting position optional Guide Plain-bearing guide Design Guidance Position detection Via proximity switch Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure 0.1 MPa1 MPa1 MPa 1 bar10 bar Max. speed 0.6 m/s Mode of operation Double-acting Operating medium Compressed air to ISO 8573·1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0. No corrosion stress LABS (PWIS) conformity VDMA2464-B1/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy Max. force Fy static Max. some Fz 1533 N Max. force Fz static Max. moment Mx 84.33 Nm	Feature	Value
Piston diameter 50 mm Operating mode, drive unit Yoke Cushioning Elastic cushioning rings/plates at both ends Mounting position optional Guide Plain-bearing guide Design Guidance Position detection Via proximity switch Variants use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure 0.1 MPa1 MPa 1 bar10 bar Max. speed 0.6 m/s Mode of operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Uubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 · No corrosion stress UABS (PWIS) conformity VDMA24364-B1/82-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1Nm Max. force Fy 1533 N Max. force Fy 1533 N Max. force Fz 1533 N Max. force Fz 1533 N Max. moment Mx 84.33 Nm	Distance from centre of gravity of load to yoke plate xs	50 mm
Operating mode, drive unit Cushioning Elastic cushioning rings/plates at both ends Optional Plain-bearing guide Design Guidance Position detection Via proximity switch Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure O.1 MPa1 MPa 1 bar10 bar O.6 m/s Mode of operation Double-acting Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static Max. force Fz 1533 N Max. force Fz Max. moment Mx 84.33 Nm	Stroke	80 mm
Elastic cushioning Elastic cushioning rings/plates at both ends	Piston diameter	50 mm
Mounting position Guide Plain-bearing guide Design Guidance Via proximity switch Variants Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure O.1 MPa1 MPa 1 bar10 bar Max. speed O.6 m/s Mode of operation Double-acting Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium always be required) Corrosion resistance class CRC O-No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20°C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy 1533 N Max. force Fz 1533 N Max. moment Mx 84.33 Nm	Operating mode, drive unit	Yoke
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Design Guidance Position detection Via proximity switch Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure O.1 MPa1 MPa 1 bar10 bar Max. speed O.6 m/s Mode of operation Double-acting Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O · No corrosion stress UDMA2/364-81/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fz 1533 N Max. moment Mx 84.33 Nm	Mounting position	optional
Position detection Via proximity switch Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Operating pressure O.1 MPa 1 MPa 1 bar 10 bar Max. speed O.6 m/s Mode of operation Double-acting Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC O - No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz 1533 N Max. moment Mx 84.33 Nm	Guide	Plain-bearing guide
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Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Corrosion resistance class CRC 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Mode of operation	Double-acting
always be required) Corrosion resistance class CRC 0 - No corrosion stress VDMA24364-B1/B2-L Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz 1533 N Max. force Fz 44.33 Nm Max. moment Mx 84.33 Nm	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
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Suitability for the production of Li-ion batteries Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz tatic 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Corrosion resistance class CRC	0 - No corrosion stress
from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils Ambient temperature -20 °C80 °C Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz 1533 N Max. force Fz 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Impact energy in end positions 1 Nm Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz 1533 N Max. force Fz 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Suitability for the production of Li-ion batteries	from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and
Max. force Fy 1533 N Max. force Fy static 1533 N Max. force Fz 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Ambient temperature	-20 °C80 °C
Max. force Fy static 1533 N Max. force Fz 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Impact energy in end positions	1 Nm
Max. force Fz 1533 N Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Max. force Fy	1533 N
Max. force Fz static 1533 N Max. moment Mx 84.33 Nm	Max. force Fy static	1533 N
Max. moment Mx 84.33 Nm	Max. force Fz	1533 N
	Max. force Fz static	1533 N
Max. torque Mx static 84.33 Nm	Max. moment Mx	84.33 Nm
	Max. torque Mx static	84.33 Nm

Feature	Value
Max. moment My	54.43 Nm
Max. torque My static	54.43 Nm
Max. moment Mz	54.43 Nm
Max. torque Mz static	54.43 Nm
Max. permissible torque load Mx as a function of stroke	15.6 Nm
Max. effective load dependent upon stroke at defined distance xs	234 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	1057 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1178 N
Moving mass	2687 g
Product weight	5013 g
alternative connections	See product drawing
Pneumatic connection	G1/4
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy
Material seals	NBR
Material housing	Wrought aluminium alloy
Material piston rod	High-alloy stainless steel