Guided drive DGRF-C-GF-40- -

FESTO

Part number: 562219



General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Piston diameter A0 mm Prive unit operating mode Yoke Cushioning Self-adjusting pneumatic end-position cushioning Pneumatic cushioning and protection of the preumatic self-adjusting pneumatic end-position cushioning Pneumatic self-adjusting protection self-adjusting protection self-adjusting protection self-adjusting protection self-adjusting guide Structural design Position sensing For proximity sensor Variants For unlubricated operation Operating pressure 0.15 MPa 1.2 MPa Operating pressure 0.15 MPa 1.2 MPa Operating pressure 1.5 bar 12 bar Mode of operation 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) 3. High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature 20 °C 80 °C Impact energy in the end positions 0.7 J Cushioning length Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash 0.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 89.7 g With through-hole With internal thread Pneumatic connection Solver material Cover material Die-cast aluminum Coated	Feature	Value
Drive unit operating mode Cushioning Self-adjusting pneumatic end-position cushioning Pneumatic cushioning Mounting position Any Guide Sliding guide Structural design Guide For proximity sensor Variants For unlubricated operation Operating pressure O.15 MPa 12 MPa Operating pressure 1.5 bar 12 bar Mode of operation 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 (CRO) 3. High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature 2-0 °C 80 °C Impact energy in the end positions O.7 J Cushioning length Down Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash Oworing mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke 89.7 g Type of mounting With Internal thread Preventatical Cover material Cover material Die-cast aluminum Coated Cover material Die-cast aluminum Coated	Stroke	10 mm 400 mm
Self-adjusting pneumatic end-position cushioning Pneumatic cushioning Any Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends Mounting position Any Guide Siliding guide Structural design Guide Position sensing For proximity sensor Variants Por unlubricated operation Deperating pressure 0.15 MPa 1.2 MPa Operating pressure 1.5 bar 12 bar Mode of operation Deparating and pilot media 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) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature 2-0°C 80°C Impact energy in the end positions O,7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash O.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional moving mass per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials Cover material Die-cast aluminum Coated	Piston diameter	40 mm
Pneumatic cushioning, adjustable at both ends	Drive unit operating mode	Yoke
Sliding guide Structural design Guide Position sensing For proximity sensor For unlubricated operation Operating pressure O.15 MPa 1.2 MPa Operating pressure 1.5 bar 12 bar Mode of operating medium Operating medium Operating and pilot media Operating virus in the food industry Ambient temperature Impact energy in the end positions O.7 J Cushioning length Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Theoretical force at 6 bar, advancing Theoretical force at 6 bar, advancing Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Royer on materials Operating weight With through-hole With internal thread Pie-cast aluminum Coated Die-cast aluminum Coated	Cushioning	
Structural design Position sensing For proximity sensor Variants For unlubricated operation Operating pressure O.15 MPa 1.2 MPa Operating pressure 1.5 bar 12 bar Mode of operation 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) Operating resistance class (CRC) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature 20 °C 80 °C Impact energy in the end positions O.7 J Cushioning length 20 mm Theoretical force at 6 bar, advancing 754 N Torsional backlash O.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke 889.7 g See Supplementary material move and see and s	Mounting position	Any
Position sensing For proximity sensor Variants For unlubricated operation Operating pressure 0.15 MPa 1.2 MPa Operating pressure 1.5 bar 12 bar Mode of operation 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) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions 0.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash 0.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke 30.00 g Additional weight per 10 mm stroke 39.7 g Type of mounting With through-hole With internal thread Pheumatic connection G1/4 Note on materials Cover material Die-cast aluminum Coated	Guide	Sliding guide
Variants Per unlubricated operation Operating pressure Operating pressure 1.5 bar 12 bar Mode of operating medium Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation vith oil lubrication possible (required for further use) Corrosion resistance class (CRC) 3 - High corrosion stress Corrosion tresistance class (CRC) ABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions O.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash 0.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke With through-hole with internal thread Preumatic connection Note on materials Cover material Oner at a luminum Coated	Structural design	Guide
Operating pressure Operating pressure 1.5 bar 12 bar Mode of operation 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) Operation resistance class (CRC) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions O.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing Torsional backlash O.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke Seasi weight with 0 mm stroke With internal thread Type of mounting With through-hole with internal thread Operation of Decast aluminum Coated	Position sensing	For proximity sensor
Operating pressure 1.5 bar 12 bar Double-acting 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) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions O.7 J Cushioning length Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Theoretical force at 6 bar, advancing Tosional backlash O.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Peneumatic connection Note on materials Cover material Die-cast aluminum Coated	Variants	For unlubricated operation
Mode of operation Double-acting 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) Operation resistance class (CRC) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions O.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing Torsional backlash O.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke With internal thread Pneumatic connection Solver material Cover material Die-cast aluminum Coated	Operating pressure	0.15 MPa 1.2 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) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions O.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing Torsional backlash O.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection Solver material Cover material Die-cast aluminum Coated	Operating pressure	1.5 bar 12 bar
Information on operating and pilot media Operation with oil lubrication possible (required for further use) 3 - High corrosion stress LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry Ambient temperature -20 °C 80 °C Impact energy in the end positions Cushioning length Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Torsional backlash O.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Type of mounting With through-hole With internal thread Pneumatic connection Operation with oil lubrication possible (required for further use) 3 - High corrosion stress 4 - Basic weight with end positions Operation with oil lubrication possible (required for further use) 3 - High corrosion stress 4 - High corrosion stress 5 - Cover material Operation with oil lubrication possible (required for further use) 3 - High corrosion stress 3 - High corrosion stress 3 - High corrosion stress 4 - Basic weight end in lubrication possible (required for further use) 5 - Cush of Cover material information 3 - High corrosion stress 4 - Cush of Cover material information 5 - Cush of Cover material information 6 - Cush of Cover material information 6 - Cush of Cover material infor	Mode of operation	Double-acting
Corrosion resistance class (CRC) LABS (PWIS) conformity VDMA24364-B2-L For use in the food industry Ambient temperature -20 °C 80 °C Impact energy in the end positions Cushioning length Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Torsional backlash Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Type of mounting With through-hole With internal thread Pneumatic connection For use in the food industry See supplementary material information 3 - High corrosion stress VDMA24364-B2-L See supplementary material information -20 °C 80 °C -20 °C 80 °C -20 °C 80 °C -21 °C 80 °C -21 °C 80 °C -22 °C 80 °C -23 °C -24 °C -25 °C -26 °C -27 °C -27 °C -27 °C -28 °C -29 °C -29 °C -20	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformity VDMA24364-B2-L See supplementary material information Ambient temperature -20 °C 80 °C Impact energy in the end positions 0.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash 0.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection RoHS-compliant Cover material Cover material Die-cast aluminum Coated	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
For use in the food industry Ambient temperature -20 °C 80 °C Impact energy in the end positions Cushioning length 20 mm Theoretical force at 6 bar, retracting Torsional backlash 0.087 deg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke 3000 g Additional weight per 10 mm stroke Type of mounting With through-hole With internal thread Pneumatic connection Sover material Cover material Cover material Die-cast aluminum Coated	Corrosion resistance class (CRC)	3 - High corrosion stress
Ambient temperature -20 °C 80 °C Impact energy in the end positions 0.7 J Cushioning length 20 mm Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash 0.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials Cover material Die-cast aluminum Coated	LABS (PWIS) conformity	VDMA24364-B2-L
Impact energy in the end positions O.7 J Cushioning length Description of the end positions O.7 J Cushioning length Description of the end positions O.7 J Omm Theoretical force at 6 bar, retracting Total N Torsional backlash O.087 deg Moving mass at 0 mm stroke I065 g Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Service of mounting With through-hole with internal thread Pneumatic connection G1/4 Note on materials Cover material Die-cast aluminum Coated	For use in the food industry	See supplementary material information
Cushioning length Theoretical force at 6 bar, retracting 633 N Theoretical force at 6 bar, advancing 754 N Torsional backlash 0.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke 65.1 g Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials Cover material Die-cast aluminum Coated	Ambient temperature	-20 ℃ 80 ℃
Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Torsional backlash Torsional ba	Impact energy in the end positions	0.7 J
Theoretical force at 6 bar, advancing Torsional backlash O.087 deg Moving mass at 0 mm stroke 1065 g Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke 3000 g Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials RoHS-compliant Cover material Die-cast aluminum Coated	Cushioning length	20 mm
Torsional backlash Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Syr g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials Cover material O.087 deg 0.087 deg 1065 g 45.1 g 3000 g 89.7 g With through-hole With internal thread Fine material thread Die-cast aluminum Coated	Theoretical force at 6 bar, retracting	633 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials Cover material Die-cast aluminum Coated	Theoretical force at 6 bar, advancing	754 N
Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials RoHS-compliant Cover material Die-cast aluminum Coated	Torsional backlash	0.087 deg
Basic weight with 0 mm stroke Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials RoHS-compliant Cover material Die-cast aluminum Coated	Moving mass at 0 mm stroke	1065 g
Additional weight per 10 mm stroke 89.7 g Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials RoHS-compliant Cover material Die-cast aluminum Coated	Additional moving mass per 10 mm stroke	65.1 g
Type of mounting With through-hole With internal thread Pneumatic connection G1/4 Note on materials RoHS-compliant Cover material Die-cast aluminum Coated	Basic weight with 0 mm stroke	3000 g
With internal thread Pneumatic connection G1/4 Note on materials RoHS-compliant Cover material Die-cast aluminum Coated	Additional weight per 10 mm stroke	89.7 g
Note on materials RoHS-compliant Die-cast aluminum Coated	Type of mounting	
Cover material Die-cast aluminum Coated	Pneumatic connection	G1/4
Coated	Note on materials	RoHS-compliant
Guide rod material High-alloy stainless steel	Cover material	
	Guide rod material	High-alloy stainless steel

Feature	Value
Housing material	Wrought aluminum alloy
Piston rod material	High-alloy stainless steel
Material of cylinder barrel	Wrought aluminum alloy