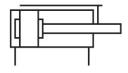
## Guided drive DGRF-C-GF-20- -P

Part number: 562216







## General operating condition

## **Data sheet**

Overall data sheet – Individual values depend upon your configuration.

perating mode, drive unit  poperating mode, drive unit  yoke  Elastic cushioning rings/plates at both ends  Abouting position  optional  puide  Plain-bearing guide  Plain-bearing guide  Plain-bearing guide  Plain-bearing guide  Plain-bearing guide  Poperating pressure  Ocypholo  Operating pressure  Ocypholo  Operating pressure  Operating medium  Operating medium  Compressed air to 150 8573-1:2010 [7:4:4]  Auto en operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Ororsion resistance class CRC  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  Subliable for use with food  See supplementary material information  Ambient temperature  -20 °C 80 °C  Impact energy in end positions  Aberetical force at 0.6 MPa (6 bar, 87 ps), return stroke  Hororitical force at 0.6 MPa (6 bar, 87 ps), return stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  See supplementary  With through-hole Via female thread  Anterial guide rod  M5  Anterial guide rod  High-alloy stainless steel	Feature	Value
Poperating mode, drive unit  Positioning  Elastic cushioning rings/plates at both ends  Abouting position  potional  Plain-bearing guide  Guidance  Position  Poperating pressure  Poperating pressure  Poperating pressure  Poperating medium  Poperating medium  Poperating and pilot medium  Poperating and pilot medium  Poperating and pilot medium  Poperating and pilot medium  Poperating sessure  Poperating and pilot medium  Poperating medium	Stroke	10 mm 400 mm
Lushioning Elastic cushioning rings/plates at both ends  Adounting position optional  Plain-bearing guide  Plain-bearing guide  Guidance  Symbol O0991738  For unlubricated operation  Operating pressure  O2 MPa 1 MPa  Operating pressure  O2 Deprating pressure  O2 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)  Operating medium  Corrosion resistance class CRC  ABS (PWIS) conformity  VOMA24364-B2-L  Suitable for use with food  See supplementary material information  which temperature  -20 °C 80 °C  may and positions  heoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Aboving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Vaditional moving mass per 10 mm stroke  Vaditional moving mass per 10 mm stroke  Vaditional weight per 10 mm stroke  Vaditional weight per 10 mm stroke  Value on materials  RoHS-compliant  Adaterial cover  Material guide rod  Plain-bearing guide  Plain-bearing gui	Piston diameter	20 mm
Abunting position optional plain-bearing guide plain-bearing guide Guidance Symbol Operating pressure O.2 MPa 1 MPa Operating pressure O.2 MPa 1 MPa Operating pressure Operating pressure Operating pressure Operating medium Operating medium Operating and pilot medium Operating and pilot medium Operating and pilot medium Operating and pilot medium Operating operation operating	Operating mode, drive unit	Yoke
Plain-bearing guide Design Guidance Operating Operating pressure Operating pressure Operating pressure Operating pressure Operating medium Operating and pilot medium Operating and pilot medium Operating and pilot medium Operating and pilot medium Operating oversion resistance class CRC Operating with food Operating the substitution of the subst	Cushioning	Elastic cushioning rings/plates at both ends
Guidance Opymbol Opymb	Mounting position	optional
Agriants For unlubricated operation Operating pressure Operating pressure Operating pressure Operating medium Oberating medium Oberating and pilot medium Ob	Guide	Plain-bearing guide
For unlubricated operation  Operating pressure  Operating pressure  Operating medium  Operating and pilot medium  Operating operation operation possible (in which case lubricated operation will always be required)  Operating medium  Operating derical to IS 0873-1:2010[7:4:4]  Operating medium  Operati	Design	Guidance
Operating pressure  Operating pressure  2 bar 10 bar  Double-acting  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  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  Suitable for use with food  See supplementary material information  Ambient temperature  -20 °C 80 °C  mpact energy in end positions  0.2 J  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  See supplementary material information  125 deg  Moving mass for 0 mm stroke  Additional weight per 10 mm stroke  See Supplementary material information  189 N  1915 deg  Moving mass for 0 mm stroke  417 g  37.7 g  38.3 is weight for 0 mm stroke  37.7 g  38.3 is weight for 0 mm stroke  38.5 g  Moditional weight per 10 mm stroke  48.5 g  Moditional weight per 10 mm stroke  189 N  180 N  180 N  181 N  181 N  182 N  183 N  184 N  185 N  185 N  185 N  186 N  187 N  187 N  188 N  189 N  189 N  180 N	Symbol	00991738
Deparating pressure  2 bar 10 bar  Double-acting  Double-acting  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will always be required)  Dorrosion resistance class CRC  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  Suitable for use with food  See supplementary material information  Ambient temperature  -20 °C 80 °C  mpact energy in end positions  - heoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Dorsional backlash  Aloring mass for 0 mm stroke  417 g  Saise weight for 0 mm stroke  4417 g  Saise weight for 0 mm stroke  37.7 g  Saise weight for 0 mm stroke  3885 g  Vipe of mounting  Either:  With through-hole  Via female thread  Preumatic connection  M5  RoHS-compliant  Material guide rod  High-alloy stainless steel	Variants	For unlubricated operation
Ande of operation  Double-acting Compressed air to ISO 8573-1:2010 [7:4:4]  Ande of operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Ande on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Jorrosion resistance class CRC  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  Suitable for use with food  See supplementary material information  Ambient temperature  -20 °C 80 °C  ADS (PWIS) on the positions  -20 I I I N  -20 I I I I I I I I I I I I I I I I I I I	Operating pressure	0.2 MPa 1 MPa
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  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  See supplementary material information  Ambient temperature  -20 °C 80 °C  0.2 J  41 N	Operating pressure	2 bar 10 bar
Lubricated operation possible (in which case lubricated operation will always be required)  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  Suitable for use with food  See supplementary material information  Ambient temperature  -20 °C 80 °C  Impact energy in end positions  heoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Heoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  orisional backlash  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Original weight per 10 mm stroke	Mode of operation	Double-acting
always be required)  Corrosion resistance class CRC  3 - high corrosion stress  ABS (PWIS) conformity  VDMA24364-B2-L  Suitable for use with food  See supplementary material information  Ambient temperature  -20 °C 80 °C  Impact energy in end positions  (2) J  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  189 N  Torsional backlash  Out 25 deg  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Type of mounting  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Torsional backlash  Out 25 deg  Additional moving mass per 10 mm stroke  Torsional backlash  Additional weight per 10 mm stroke  Type of mounting  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Torsional backlash  Torsional backla	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
ABS (PWIS) conformity  VDMA24364-B2-L  Suitable for use with food  Ambient temperature  -20 °C 80 °C  Impact energy in end positions  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Torsional backlash  Avoing mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Additional weight for 0 mm stroke  Additional weight per 10 mm stroke  Torsional backlash  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Torsional backlash	Note on operating and pilot medium	
See supplementary material information  Ambient temperature  -20 °C 80 °C  mpact energy in end positions  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  189 N  Torsional backlash  0.125 deg  Moving mass for 0 mm stroke  417 g  Additional moving mass per 10 mm stroke  885 g  Additional weight for 0 mm stroke  885 g  Additional weight per 10 mm stroke  52 g  Either:  With through-hole Via female thread  Preumatic connection  M5  RoHS-compliant  Material cover  Material guide rod  High-alloy stainless steel	Corrosion resistance class CRC	3 - high corrosion stress
Ambient temperature  -20 °C 80 °C  Impact energy in end positions  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  141 N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  189 N  Torsional backlash  Avoing mass for 0 mm stroke  417 g  Additional moving mass per 10 mm stroke  37.7 g  Sasic weight for 0 mm stroke  485 g  Additional weight per 10 mm stroke  52 g  Type of mounting  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  885 g  Additional moving mass per 10 mm stroke  885 g  Additional weight for 0 mm stroke  52 g  Type of mounting  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  417 g  418 p  418 p  419 p  419 p  419 p  410 p	LABS (PWIS) conformity	VDMA24364-B2-L
mpact energy in end positions  Cheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Cheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  189 N  Corsional backlash  Corsional backlash  Covern Moving mass for 0 mm stroke  417 g  Additional moving mass per 10 mm stroke  37.7 g  Sasic weight for 0 mm stroke  Additional weight per 10 mm stroke  Solve of mounting  Cheoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  418 N  Solve of mounting mass per 10 mm stroke  Solve of mounting  Cheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  417 g  37.7 g  Sasic weight for 0 mm stroke  Solve of mounting  Either:  With through-hole  Via female thread  Cheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Solve of mounting  Mounting  Mounting  Cheoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  189 N  189 N  189 N  189 N  189 N  189 N  180 Solve g  Mounting  M	Suitable for use with food	See supplementary material information
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  189 N Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  189 N Torsional backlash  0.125 deg  Moving mass for 0 mm stroke  417 g  Static weight for 0 mm stroke  885 g  Additional weight per 10 mm stroke  885 g  Additional weight per 10 mm stroke  52 g  Either: With through-hole Via female thread  Preumatic connection  M5  Rote on materials  Material cover  Material guide rod  141 N  189 N	Ambient temperature	-20 °C 80 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  189 N  189	Impact energy in end positions	0.2 J
Onsional backlash  Moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Sasic weight for 0 mm stroke  Sasic weight per 10 mm stroke  Sasic weight for 0 mm strok	Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	141 N
Moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Basic weight for 0 mm stroke  Basic weight per 10 mm stroke  Solutional weight per 10 mm stroke  Solutio	Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	189 N
Additional moving mass per 10 mm stroke  Basic weight for 0 mm stroke  Additional weight per 10 mm stroke  Solutional weight per 10 mm stroke  Either: With through-hole Via female thread  Preumatic connection  M5  Note on materials  Material cover  Material guide rod  37.7 g  885 g  Either: With through-hole Via female thread  M5  RoHS-compliant  Mrought aluminium alloy  High-alloy stainless steel	Torsional backlash	0.125 deg
Basic weight for 0 mm stroke  Additional weight per 10 mm stroke  52 g  Either: With through-hole Via female thread  Pneumatic connection  M5  Note on materials  Material cover  Material guide rod  885 g  Either: With through-hole Via female thread  M5  RoHS-compliant  Wrought aluminium alloy  High-alloy stainless steel	Moving mass for 0 mm stroke	417 g
Additional weight per 10 mm stroke  52 g  Either: With through-hole Via female thread  Preumatic connection M5  Note on materials RoHS-compliant  Material cover Wrought aluminium alloy Material guide rod High-alloy stainless steel	Additional moving mass per 10 mm stroke	37.7 g
Either: With through-hole Via female thread  Pneumatic connection M5 Note on materials Naterial cover Wrought aluminium alloy Material guide rod High-alloy stainless steel	Basic weight for 0 mm stroke	885 g
With through-hole Via female thread  Pneumatic connection M5  Note on materials Naterial cover Wrought aluminium alloy Material guide rod High-alloy stainless steel	Additional weight per 10 mm stroke	52 g
Note on materials  RoHS-compliant  Material cover  Wrought aluminium alloy  High-alloy stainless steel	Type of mounting	With through-hole
Material cover Wrought aluminium alloy Material guide rod High-alloy stainless steel	Pneumatic connection	M5
Material guide rod High-alloy stainless steel	Note on materials	RoHS-compliant
	Material cover	Wrought aluminium alloy
Material housing Wrought aluminium alloy	Material guide rod	High-alloy stainless steel
	Material housing	Wrought aluminium alloy

Feature	Value
Material piston rod	High-alloy stainless steel
Material cylinder barrel	Wrought aluminium alloy