## Linear drive DGC-8- -

**FESTO** 

Part number: 530906



General operating condition

## **Data sheet**

Overall data sheet – Individual values depend upon your configuration.

Piston diameter  Cushioning  Elastic cushioning rings/plates at both ends Shock absorber, hard characteristic curve Shock absorber, soft characteristic curve Shock absorber, soft characteristic curve Shock absorber, soft characteristic curve  Mounting position  Guide  Basic guide Recirculating ball bearing guide Position detection  Via proximity switch  Additional slide, standard, on left Additional slide, standard, on left Additional slide, standard, on right Operating pressure  0.25 MPa 0.8 MPa  Operating pressure  2.5 bar 8 bar  Mode of operation  Double-acting  CE mark (see declaration of conformity)  To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  To UK EX instructions  Explosion protection certification outside the EU  EPL Dc (GB) EPL Db (GB) EP	Feature	Value
Elastic cushioning Shock absorber, hard characteristic curve Shock absorber, hard characteristic curve Shock absorber, hard characteristic curve Shock absorber, soft characteristic curve Mounting position optional Basic guide Recirculating ball bearing guide Position detection Via proximity switch Additional slide, standard, on left Additional slide, standard, on left Additional slide, standard, on left Additional slide, standard, on right Operating pressure O.25 MPa 0.8 MPa Operating pressure Double-acting CE mark (see declaration of conformity) To EU Explosion Protection Directive (ATEX) UKCA marking (see declaration of conformity) To UK EX instructions  Explosion protection certification outside the EU EPL Dc (GB) EPL Cb (GB) EPL Cb (GB) Explosion protection certification outside the EU EPL Dc (GB) EPL Cb (GB) Explosion protection Certification outside the EU EPL Dc (GB) EPL Cb (GB) Explosion protection Certification outside the EU EPL Dc (GB) EPL Cb (GB) Explosion protection Scale (ATEX) Zone 1 (ATEX) Zone 2 (ATEX)	Stroke	1 mm 2000 mm
Shock absorber, soft characteristic curve Shock absorber, soft characteristic curve Mounting position Guide Basic guide Recirculating ball bearing guide Position detection Via proximity switch Additional slide, standard, on left Additional slide, standard, on left Additional slide, standard, on right Operating pressure Operating medium Ompressed air to ISO 8573-1-2010 [7:] Operating medium Operating and pilot medium Operating and pilot medium Operating medium Operating and pilot medium Operating medium Operating medium Operating and pilot medium Operating med	Piston diameter	8 mm
Basic guide Recirculating ball bearing guide Recirculating ball bearing guide Recirculating ball bearing guide  Via proximity switch  Additional slide, standard, on left Additional slide, standard, on right  Operating pressure  0.25 MPa0.8 MPa  Operating pressure  2.5 bar8 bar  Mode of operation  Double-acting  CE mark (see declaration of conformity)  To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  To UK EX instructions  Explosion protection certification outside the EU  EPL Dc (GB) EPL Gb (GB)  Explosion protection  Zone 1 (ATEX) Zone 2 (AIEX) Zone 2 (AIEX) Zone 22 (AIEX) Zone 22 (UKEX)  ATEX category gas  ATEX category dust  II 3D  Explosion ignition protection type for gas  Explosion ignition protection type for dust  Explosion ignition protection type for dust  Explosion ambient temperature  45°C <= Ta <= +60°C  Operating medium  Compressed air to ISO 8573-1:2010 [7:]  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 2 - Moderate corrosion stress 2 - Moderate corrosion stress 3 O N  Type of mounting  With accessories	Cushioning	Shock absorber, hard characteristic curve
Recirculating ball bearing guide  Position detection  Via proximity switch  Additional slide, standard, on left Additional slide, standard, on right  Operating pressure  0.25 MPa 0.8 MPa  Operating pressure  2.5 bar 8 bar  Double-acting  CE mark (see declaration of conformity)  To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  To UK EX instructions  Explosion protection certification outside the EU  EPL Dc (GB) EPL Gb (GB) EPL Gb (GB) EXPLOSION protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 23 (ATEX) Zone 24 (ATEX) Zone 25 (ATEX) Zone 26 (ATEX) Zone 27 (ATEX) Zone 27 (ATEX) Zone 28 (ATEX) Zone 29 (ATEX) Zone 29 (ATEX) Zone 29 (ATEX) Zone 20 (A	Mounting position	optional
Additional slide, standard, on left Additional slide, standard, on right  Operating pressure  Operating pressure  Operating pressure  Double-acting  CE mark (see declaration of conformity)  In EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  To UK EX instructions  Explosion protection certification outside the EU  EPL Dc (GB)  Explosion protection  Zone 1 (UKEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (UKEX) ATEX category gas  II 2G  ATEX category dust  II 3D  Explosion ignition protection type for gas  Explosion ignition protection type for dust  Explosion ignition protection type for dust  Explosion ambient temperature  Operating medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 · Low corrosion stress 2 · Moderate corrosion stress 2 · Moderate corrosion stress 4 · Moderate corrosion stress 4 · Moderate corrosion stress 5 · Moderate corrosion stress 4 · Moderate corrosion stress 4 · Moderate corrosion stress 5 · Moderate corrosion stress 4 · Moderate corrosion stress 5 · Moderate corrosion stress 6 · Moderate corrosion stress 7 · Moderate corrosion stress 8 · Moderate corrosion stress 9 · Moderate corrosion stress 9 · Moderate corrosion stress 1 · Low corrosion stress 1 · Low corrosion stress 1 · Moderate corrosion stress 1 · Moderate corrosion stress 2 · Moderate corrosion stress 3 · Moderate corrosion stress 4 · Moderate corrosion stress 5 · Moderate corrosion stress 5 · Moderate corrosion stress 6 · Moderate corrosion stress 7 · Moderate corrosion	Guide	
Additional slide, standard, on right  Operating pressure  0.25 MPa 0.8 MPa  Operating pressure  2.5 bar 8 bar  Mode of operatin  CE mark (see declaration of conformity)  To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  Explosion protection certification outside the EU  EPL Dc (GB)  EPL Gb (GB)  EXPLOSION protection  Zone 1 (ATEX) Zone 1 (MEX) Zone 2 (ATEX) Zone 22 (MEX) Zone 22 (MEX) Zone 22 (UKEX) Zone 22 (UKEX) ZONE 22 (MEX) ZONE 22 (MEX) ZONE 22 (MEX) ZONE 22 (ONEX) ZONE 22	Position detection	Via proximity switch
Operating pressure  2.5 bar 8 bar  Double-acting  CE mark (see declaration of conformity)  To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  To UK EX instructions  Explosion protection certification outside the EU  EPL Gb (GB)  Explosion protection  Zone 1 (ATEX) Zone 1 (WEX) Zone 2 (ATEX) Zone 2 (WEX) Zone 22 (WEX)  ATEX category gas  II 2G  ATEX category dust  Explosion ignition protection type for gas  Explosion ignition protection type for dust  Explosion ambient temperature  Operating medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 2 - Moderate corrosion stress 3 - Moderate corrosion stress 4 - Moderate corrosion stress 5 - Moderate corrosion stress 4 - Moderate corrosion stress 5 - Moderate corrosion stress 4 - Moderate corrosion stress 4 - Moderate corrosion stress 4 - Moderate corrosion stress 5 - Moderate corrosion stress 4 - Moderate corrosion stress 4 - Moderate corrosion stress 5 - Moderate corrosion stress 4 - Moderate corrosion stress 5 - Moderate corrosion stress 6 - Moderate corrosion stress 7 - Moderate corrosion stress 8 - Moderate corrosion stress 9 - Moderate corrosion st	Variants	
Mode of operation  CE mark (see declaration of conformity)  Double-acting  To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  To UK EX instructions  Explosion protection certification outside the EU  EPL Dc (GB) EPL Gb (GB)  EXPLOSION PROTECTION  Zone 1 (UKEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (UKEX) Zone 22 (UKEX) ATEX category gas  II 12G  ATEX category dust  Explosion ignition protection type for gas  Explosion ignition protection type for dust  Explosion ambient temperature  Departing medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Type of mounting  With accessories	Operating pressure	0.25 MPa 0.8 MPa
To EU Explosion Protection Directive (ATEX)  UKCA marking (see declaration of conformity)  Explosion protection certification outside the EU  EXPLOS (GB) EXPLOS (	Operating pressure	2.5 bar 8 bar
UKCA marking (see declaration of conformity)  Explosion protection certification outside the EU  EPL Dc (GB) EPL Gb (GB)  EXPLOSION protection  Zone 1 (ATEX) Zone 2 (UKEX)  ATEX category gas  ATEX category dust  II 2G  ATEX category dust  II 3D  Explosion ignition protection type for gas  Ex h IIC T 4 Gb X  Explosion ignition protection type for dust  Explosion ignition protection type for dust  Explosion ignition protection type for dust  Explosion ambient temperature  Operating medium  Compressed air to ISO 8573-1:2010 [7:]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 2 - Moderate corrosion stress  1 - Low corrosion stress 3 - Moderate corrosion stress 4 - MOMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke Type of mounting  With accessories	Mode of operation	Double-acting
Explosion protection certification outside the EU  EPL Dc (GB) EPL Gb (GB)  EPL Gb (GB)  EPL Gb (GB)  EXPlosion protection  Zone 1 (ATEX) Zone 1 (UKEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (WEX)  ATEX category gas  II 2G  ATEX category dust  II 3D  Explosion ignition protection type for gas  Ex h IIC T4 Gb X  Explosion ignition protection type for dust  Explosion ignition protection type for dust  Explosion ignition protection type for dust  Explosion ambient temperature  Compressed air to ISO 8573-1:2010 [7:]  Note on operating medium  Compressed air to ISO 8573-1:2010 [7:]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 2 - Moderate corrosion stress  1 - Low corrosion stress 3 - Moderate corrosion stress 4 - MOMERA (6 bar, 87 psi), return stroke 3 - N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 3 - N  Type of mounting  With accessories	CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
EPL Gb (GB)  Explosion protection  Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (UKEX)  ATEX category gas  II 2G  ATEX category dust  II 3D  Explosion ignition protection type for gas  Ex h IIC T4 Gb X  Explosion ignition protection type for dust  Ex h IIIC T120°C Dc X  Explosion ambient temperature  +5°C <= Ta <= +60°C  Operating medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 2 - Moderate corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Type of mounting  With accessories	UKCA marking (see declaration of conformity)	To UK EX instructions
Zone 1 (UKEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (UKEX)  ATEX category gas  ATEX category dust  Explosion ignition protection type for gas  Ex h IIC T4 Gb X  Explosion ignition protection type for dust  Ex h IIIC T120°C Dc X  Explosion ambient temperature  Compressed air to ISO 8573-1:2010 [7:]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress LABS (PWIS) conformity  VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Type of mounting  With accessories	Explosion protection certification outside the EU	· · ·
ATEX category dust  Explosion ignition protection type for gas  Ex h IIC T4 Gb X  Explosion ignition protection type for dust  Ex h IIC T120°C Dc X  Explosion ambient temperature  +5°C <= Ta <= +60°C  Operating medium  Compressed air to ISO 8573-1:2010 [7:]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 1 - Moderate corrosion stress 3 - Moderate corrosion stress  WDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke With accessories	Explosion protection	Zone 1 (UKEX) Zone 2 (ATEX) Zone 22 (ATEX)
Explosion ignition protection type for gas  Ex h IIC T4 Gb X  Explosion ignition protection type for dust  Ex h IIIC T120°C Dc X  Explosion ambient temperature  +5°C <= Ta <= +60°C  Operating medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress 1 - Moderate corrosion stress 2 - Moderate corrosion stress  ABS (PWIS) conformity  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Type of mounting  With accessories	ATEX category gas	II 2G
Explosion ignition protection type for dust  Explosion ambient temperature  +5°C <= Ta <= +60°C  Operating medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Type of mounting  With accessories	ATEX category dust	II 3D
Explosion ambient temperature +5°C <= Ta <= +60°C  Operating medium Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC 1- Low corrosion stress 2- Moderate corrosion stress  LABS (PWIS) conformity VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 30 N  Type of mounting With accessories	Explosion ignition protection type for gas	Ex h IIC T4 Gb X
Operating medium  Compressed air to ISO 8573-1:2010 [7:-:-]  Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 30 N  Type of mounting  With accessories	Explosion ignition protection type for dust	Ex h IIIC T120°C Dc X
Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 30 N  Type of mounting  With accessories	Explosion ambient temperature	+5°C <= Ta <= +60°C
always be required)  Corrosion resistance class CRC  1 - Low corrosion stress 2 - Moderate corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke 30 N  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke 30 N  Type of mounting  With accessories	Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]
2 - Moderate corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  30 N  Type of mounting  With accessories	Note on operating and pilot medium	
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  30 N  Type of mounting  With accessories	Corrosion resistance class CRC	
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke  Type of mounting  With accessories	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Type of mounting With accessories	Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	30 N
	Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	30 N
Note on materials RoHS-compliant	Type of mounting	With accessories
	Note on materials	RoHS-compliant

Feature	Value
Material cover	Wrought aluminium alloy
	POM TPE-U(PU)